



REPORT

2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report

*Georgia Power Company - Plant Scherer Cell 1 and PAC Ash Cell
Permit No. 102.009D(LI)*

Submitted to:



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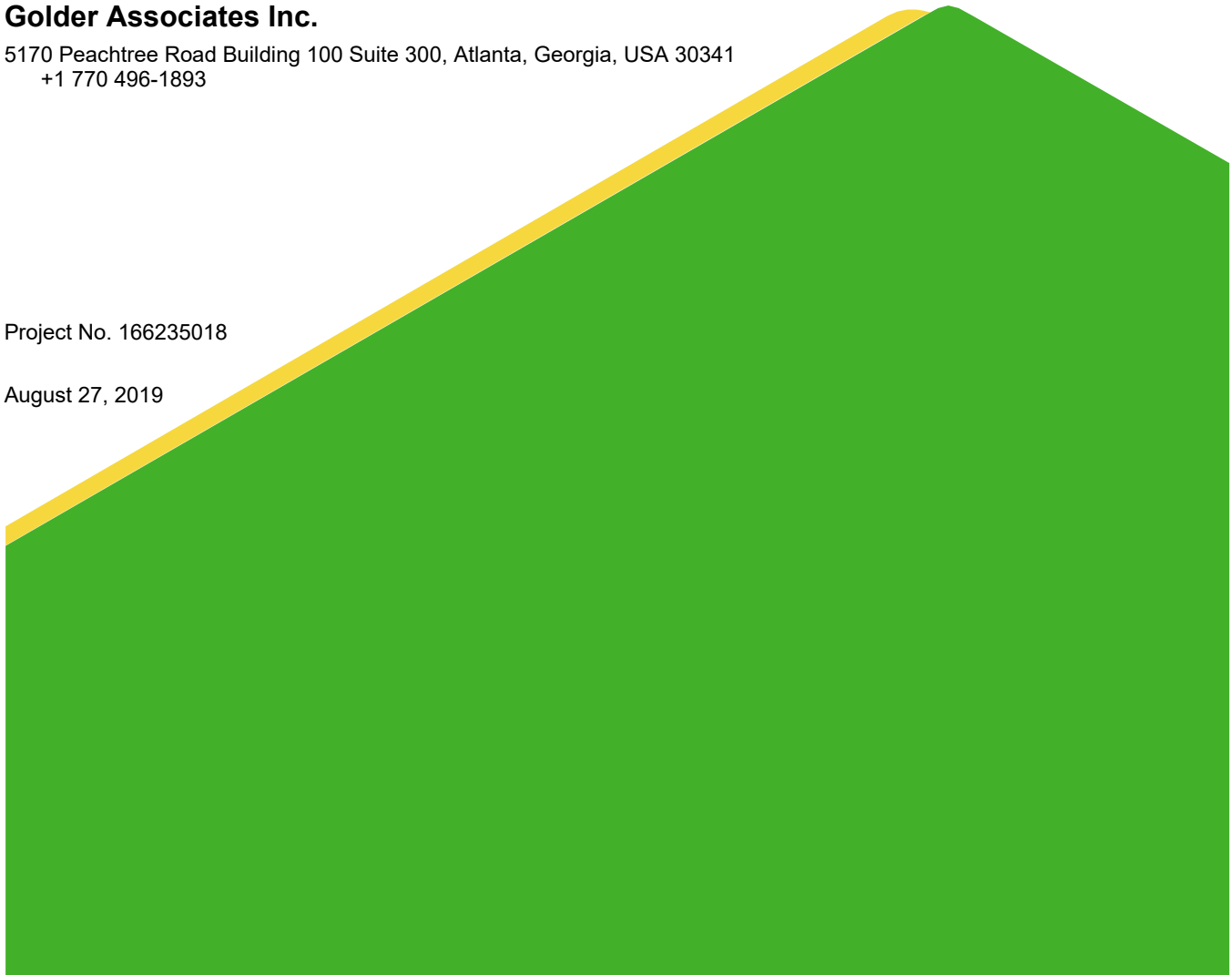


Table of Contents

CERTIFICATION STATEMENT	iv
1.0 INTRODUCTION	1
1.1 Site Description & Background	1
1.2 Regional & Site Geology & Hydrogeologic Setting	1
1.3 Groundwater Monitoring Well Network	2
1.4 Surface Water Monitoring	2
1.5 Effluent Monitoring	2
2.0 GROUNDWATER MONITORING ACTIVITIES	2
2.1 Monitoring Well Installation and Maintenance	3
2.2 Detection Monitoring	3
2.3 Alternate Source Demonstrations	3
3.0 SAMPLE METHODOLOGY & ANALYSIS	3
3.1 Groundwater Level Measurement.....	3
3.2 Groundwater Gradient and Flow Velocity	3
3.3 Groundwater Sampling	4
3.4 Surface Water Sampling	5
3.5 Effluent Sampling	5
3.6 Laboratory Analyses	5
3.7 Quality Assurance and Quality Control	5
4.0 STATISTICAL ANALYSES	6
4.1 Statistical Methods	6
4.1.1 Cell 1 Statistical Methods.....	6
4.1.2 PAC Ash Cell Statistical Methods.....	7
4.2 Statistical Analysis Results	8
5.0 MONITORING PROGRAM STATUS	10
6.0 CONCLUSIONS	10
7.0 REFERENCES	11

Table of Contents (continued)

TABLES & FIGURES

Table 1:	Monitoring Well Network Summary
Table 2A:	Groundwater Sampling Event Summary – PAC Ash Cell
Table 2B:	Groundwater Sampling Event Summary – Cell 1
Table 3:	Summary of Groundwater Elevations
Table 4:	Horizontal Groundwater Velocity Calculations - March 2019
Table 5A:	Analytical Data Summary PAC Ash Cell - March 2019
Table 5B:	Analytical Data Summary Cell 1 - March 2019
Table 5C:	Surface Water Analytical Data Summary - April 2019
Figure 1:	Site Location Map
Figure 2:	Site Plan and Monitoring Well Location Map
Figure 3:	PAC Ash Cell Potentiometric Surface Map - March 25, 2019
Figure 4:	Cell 1 Landfill Potentiometric Surface Map - March 25, 2019

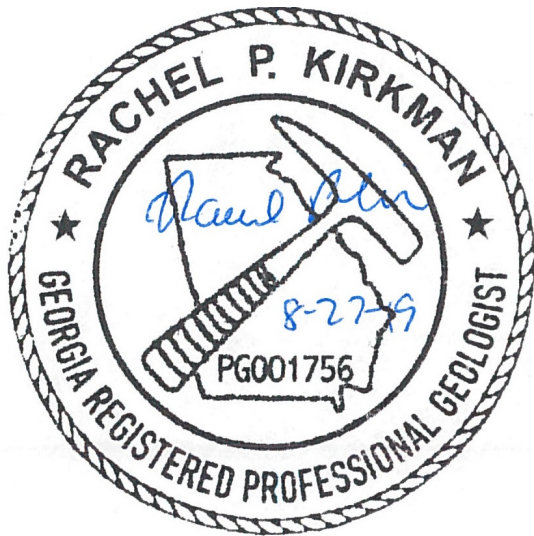
APPENDICES

Appendix A:	Analytical Results, Field Data Forms & Data Validation Summaries
Appendix B:	Statistical Analyses Reports

Certification Statement

This 2019 First Semi-Annual Groundwater Monitoring & Corrective Action Report, Georgia Power Company - Plant Scherer Coal Combustion By-Product Private Industry Solid Waste Disposal Facility Cell 1 & PAC Ash Cell has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Golder Associates Inc.

Golder Associates, Inc. certifies that all site constituents were below the applicable Georgia maximum contaminant levels.



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8-27-2019

Date

dlp/rpk

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1.0 INTRODUCTION

This report has been prepared by Golder Associates Inc. (Golder) to present results of the first semi-annual monitoring event conducted in March 2019 for Georgia Power's Plant Scherer (Scherer) Cell 1 and Powdered Activated Carbon (PAC) Ash Cell. Semi-annual monitoring and reporting for Plant Scherer is performed in accordance with the monitoring program requirements of the Georgia (GA) Department of Natural Resources Environmental Protection Division (EPD) Chapter 391-3-4 Solid Waste Management; Solid Waste Permit 102-009D(LI); and, the Groundwater Monitoring Plan Narrative of the Design & Operations (D&O) Plan for Plant Scherer Coal Combustion By-Product CCB Disposal Facility, submitted by Southern Company Generation Engineering and Construction Services February 26, 2010. The D&O Plan includes a minor modification for coal combustion residuals (CCR) disposal in all cells approved by EPD November 20, 2017 and a minor modification to include Appendix III and IV parameters contained in 40 CFR 257, Subpart D approved by EPD August 9, 2017.

1.1 Site Description & Background

Plant Scherer is located in northeast Monroe County, Georgia, approximately 5 miles south of Juliette, GA. The property occupies approximately 12,000 acres and is bounded on the south by Lake Juliette. The plant is primarily surrounded by agricultural and residential use. Figure 1, Site Location Map, depicts the location of Plant Scherer relative to the surrounding area.

The Plant Scherer Landfill consists of a two active cells, namely, Cell 1 and PAC Ash Cell, and future Cells 2 and 3. The two active cells have been utilized since 2011 for the disposal of CCR. The total disposal area occupies approximately 325 acres along the northern portion of the property. Figure 2, Site Plan and Monitoring Well Location Map depicts the general configuration of the landfill units and site monitoring wells.

The site is located within the Piedmont Physiographic Province of central Georgia, which is characterized by gently rolling hills and narrow valleys, with locally pronounced linear ridges. Overall, the property slopes gently south towards Lake Juliette and east toward the Ocmulgee River (Figure 1). The landfill is situated east/southeast of the ash pond which is in a topographically high area on the property. The landfill cells have a geosynthetic clay liner and a geomembrane, and a leachate collection and removal system in place.

1.2 Regional & Site Geology & Hydrogeologic Setting

The following section and subsections include a general description of regional geologic and hydrogeologic characteristics of formations that occur beneath the site. Information presented in this section is based on published literature, discussion with local geologic experts, and experience working in this geologic terrain.

The metamorphic and igneous rocks that underlie the area have been subjected to physical and chemical weathering, which has created a landscape dissected by creeks and streams forming a dendritic drainage pattern. These rocks are deeply weathered due to the humid climate and bedrock is typically overlain by a variably thick blanket of residual soils and saprolite. The overall depth of weathering in the Piedmont/Blue Ridge is generally about 20 to 60 feet; however, the depth of weathering along discontinuities and/or very feldspathic rock units may extend to depths greater than 100 feet. Because of such variations in rock types and structure, the depth of weathering can vary significantly over short horizontal distances.

Near surface conditions were determined based upon available boring and monitoring well installation logs. Based on review of this information, residual soils, consisting of primarily sandy silt, silty sand, sandy clay and silty clay, occur as a variably thick blanket overlying bedrock across most of the site. The thickness of the

residual soil encountered in the borings is variable, ranging from approximately 17 feet to 168 feet, with an average residual soil thickness of about 57 feet. Saprolitic soils and/or saprolitic rock vary in thickness across the site but were generally encountered at or near ground surface. Saprolitic rock is considered to be partially weathered rock (PWR) as defined by blow counts, where available. Material overlying the top of rock surface, including residual soils, saprolite, and saprolitic rock, is collectively referred to as overburden or regolith.

Field hydraulic conductivity tests (i.e., slug tests) performed in a variety of geologic materials onsite indicate an average horizontal hydraulic conductivity on the order of 10^{-4} centimeters per second (cm/s). Site data include 58 slug test measurements across the site with an average of 2.36 feet/day (ft/day); median 1.31 ft/day. This hydraulic conductivity is generally consistent with regional measurements within Piedmont overburden (Heath, 1982). In general, groundwater flow is potentially faster through the transitionally weathered zone; however, the magnitude of difference is nominal enough to not be considered relevant at this site.

1.3 Groundwater Monitoring Well Network

A groundwater monitoring system at the Site monitors the groundwater passing the waste boundary of Cell 1 and PAC Ash Cell within the uppermost aquifer. There are 20 monitoring wells at Cell 1 and 12 monitoring wells at the PAC Ash Cell. Wells are located to serve as upgradient, and downgradient wells based on groundwater flow direction as determined by the potentiometric surface elevation contour maps. Table 1, Monitoring Well Network Summary, presents the pertinent well construction details for the active landfill cells at Plant Scherer.

1.4 Surface Water Monitoring

Small tributaries traverse the site to the Ocmulgee River, which is located approximately 3,000 feet east of the facility site boundary. Eight locations as shown on Figure 2 are sampled semi-annually to determine the surface water quality of the small tributaries traversing the site.

1.5 Effluent Monitoring

Effluent monitoring is performed semi-annually. A single effluent sample was collected on April 1, 2019 from the point of discharge of the flue gas desulfurization (FGD) waste stream. The FGD sample is analyzed for the same target metals as the groundwater samples.

2.0 GROUNDWATER MONITORING ACTIVITIES

The following describes monitoring-related activities performed during the first semi-annual monitoring period in 2019. Golder collected groundwater, surface water and effluent samples for this event between March 26 and April 1, 2019. Table 2, Groundwater Sampling Event Summary, presents a summary of the groundwater sampling event completed for PAC Ash Cell (Table 2A) and Cell 1 (Table 2B) and the status of the monitoring well network for each unit.

Groundwater analytical data and chain of custody records are presented in Appendix A, Analytical Results, Field Data Forms, and Data Validation Summaries. Environmental monitoring field data sheets and the well condition summary forms are also included with the analytical reports in Appendix A. Field data and sampling notes for each monitoring well are recorded on the field information forms, which contain a description of the sampling equipment, sampling method, purge rate, field observations, and depth to water measurements at each monitoring location.

2.1 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in 2019; the network remained the same as in the 2018 (previous) reporting year. Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling.

2.2 Detection Monitoring

A detection monitoring well network has been established for each Cell 1 and PAC Ash Cell at Plant Scherer. Detection monitoring is performed on a semi-annual basis in accordance with the approved Georgia EPD Solid Waste Permit No. 102-009S(LI) and the site's 2010 D&O Plan. Groundwater samples from wells in the detection monitoring system were analyzed for the permit-specified semi-annual monitoring parameters as well as Appendix III monitoring parameters per 40 CFR Parts 257 and 261. Additionally, samples were collected from surface water sampling locations and from the site effluent.

2.3 Alternate Source Demonstrations

Based on results of the *2018 Second Semi-Annual Groundwater Monitoring & Statistical Evaluation Report*, and the *2018 Annual Groundwater & Corrective Action Monitoring Report*, statistically significant increases (SSIs) of select Appendix III monitoring constituents were identified above background concentrations. In accordance with GA EPD Solid Waste Management Rule and §257.94(e)(2), an alternate source demonstration (ASD) was prepared and placed into the operating record to address each of the identified SSIs.

3.0 SAMPLE METHODOLOGY & ANALYSIS

The March-April 2019 sampling event represents the first semi-annual sampling event in 2019 for Cell 1 and PAC Ash Cell landfills at Plant Scherer. The following sections describe methods used to conduct groundwater monitoring at Cell 1 and PAC Ash Cell.

3.1 Groundwater Level Measurement

Prior to sampling, Golder recorded groundwater elevations from each well and piezometer on March 25, 2019. Groundwater elevation data are summarized on Table 3, Summary of Groundwater Elevations. The recorded water level data were used to develop Figure 3, PAC Ash Cell Potentiometric Surface Map - March 25, 2019 and Figure 4, Cell 1 Landfill Potentiometric Surface Map - March 25, 2019. Review of Figures 3 and 4 shows that groundwater generally flows south-southeast across the site and is consistent with historical observations.

3.2 Groundwater Gradient and Flow Velocity

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from previous slug test results, and an estimated effective porosity of the screened horizon. Based on slug test data at the site, an average hydraulic conductivity value of 2.36 ft/day is used in the flow calculations. Additional details are provided in the *Plant Scherer Proposed Coal Combustion By-Product Disposal Facility Site Acceptability Report* (2007). The hydraulic gradient was calculated between well pairs as shown on Table 4, Horizontal Groundwater Velocity Calculations – March 2019. An effective porosity of 0.20 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

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

Using this equation and groundwater elevation data from this sampling event, horizontal groundwater velocities are calculated for various areas of the site and shown on Table 4.

As presented on Table 4, groundwater flow velocity at the site ranges from approximately 0.2 ft/day to 0.5 ft/day (approximately 76 to 180 ft/year) across the Cell 1 and PAC Ash Cell. These calculated groundwater velocities across the site are generally consistent with historical calculations. The observed groundwater velocities calculated for this monitoring event are also consistent with expected velocities in the regolith-upper bedrock aquifers of Georgia Piedmont and confirm the groundwater monitoring system as properly located to monitor the uppermost aquifer for the landfills at Plant Scherer.

3.3 Groundwater Sampling

Groundwater samples were collected from site detection monitoring wells. Monitoring wells were purged and sampled using low-flow sampling procedures. Non-dedicated, low-flow pneumatic bladder pumps were used to purge and sample the wells. During the purging of each well, field measurements of temperature, specific conductance, dissolved oxygen (DO), pH, and oxidation-reduction potential (ORP) were recorded using a SmarTroll® (In-Situ® field instrument) along with a separate turbidity meter to verify stabilization. Groundwater samples were collected when the following general stabilization criteria were met:

- 0.1 standard units for pH
- 5% for specific conductance
- 0.2 milligrams per liter (mg/L) or 10% for DO > 0.5 mg/L (whichever is greater)
- Turbidity measurements less than 10 Nephelometric Turbidity Units (NTU)

Any deviation from stabilization criteria, if applicable, is identified on field sampling forms. Following well stabilization, unfiltered samples were collected directly into appropriately preserved laboratory supplied sample containers, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol. Field information forms generated directly from the SmarTroll® as well as chain-of-custody records are included in Appendix A.

Where sample turbidity was greater than 5 NTU and all other stabilization criteria were met, samplers continued purging in order to reduce the turbidity to 5 NTU or less. When turbidity remained above 5 NTU but was less than 10 NTU, and all other parameters are stabilized, the well was sampled. Where turbidity remained above 10 NTU, an unfiltered sample was collected followed by a filtered sample that has passed through an in-line 0.45-micron filter attached to the discharge (sample collection) tube. The unfiltered sample data are used for compliance monitoring and in the statistical analysis database. Filtered sample data are used to assess the impacts of turbidity on groundwater quality. Details regarding additional filtered samples is recorded on the field information form.

Results for each well are summarized and compared to applicable standards on Table 5A, Analytical Data Summary Cell 1 - March 2019 and Table 5B, Analytical Data Summary PAC Ash Cell - March 2019. Review of Tables 5A and 5B shows no exceedances of the established primary MCLs for any of the samples from either the upgradient or downgradient monitoring wells during the March 2019 sampling event.

3.4 Surface Water Sampling

Samples from surface water sampling locations SWA-2 through SWA-3 and SWC-4 through SWC-8 were analyzed for target parameters, as indicated in the 2010 D&O Plan. Surface water location SWA-1 was dry at the time of sampling, and therefore, no sample was collected. The results of the most recent surface water sampling are provided in Table 5C, Surface Water Analytical Data Summary - April 2019. As specified in the August 2017 permit modification, surface waters were also analyzed for Appendix III parameters. Comparison of the Appendix III monitoring parameters in surface water samples collected during the first semi-annual event to the Georgia surface water quality standards indicate no exceedances of the water quality standards in surface water.

Review of Table 5C and a comparison of upstream to downstream results indicates no significant change in surface water chemistry downstream of the landfill. Thus, there is no evidence of landfill impacts to surface water at the site.

3.5 Effluent Sampling

During this sampling event, one effluent sample was collected from the point of discharge of the FGD waste stream within Cell 1 of the disposal facility. The FGD effluent sample is analyzed for the target constituents shown in the 2010 D&O Plan. Results of the FGD effluent sample collected on April 1, 2019 from the point of discharge within Cell 1 of the disposal facility are provided in Appendix A.

3.6 Laboratory Analyses

Cell 1 and PAC Ash Cell monitoring wells were sampled and analyzed for applicable state and federal monitoring parameters pursuant to the sites 2010 D&O Plan. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A.

Laboratory analyses were performed by Eurofins TestAmerica Laboratory (TAL) located in Pittsburgh, Pennsylvania), which is accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. In addition, TAL laboratories are certified by the State of Georgia to perform analyses. Groundwater data and chain of custody records for the monitoring events are presented in Appendix A.

3.7 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one sample per every 10 samples. Equipment blanks (collected where non-dedicated sampling equipment is used), field blanks, and duplicate samples were also collected during each sampling event. QA/QC sample data were evaluated during data validation and are included in Appendix A.

Groundwater quality data in this report were independently validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestion spikes, laboratory and field duplicate RPDs, field and

equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures (USEPA, 2011). Data validation summaries are provided in Appendix A. Analytical data is presented in Table 5A and Table 5B.

4.0 STATISTICAL ANALYSES

Statistical analysis of groundwater monitoring data was performed on samples collected from the groundwater monitoring network following the appropriate certified statistical methodology. The statistical method used for Cell 1 and PAC Ash Cell was developed using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007 (USEPA, 2009).

4.1 Statistical Methods

The selected statistical method for Cell 1 and PAC Ash Cell was developed using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (Unified Guidance). The Sanitas™ Groundwater statistical software was used to perform the statistical analyses. Sanitas™ is a decision-support software package, that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA Unified Guidance (2009) document.

4.1.1 Cell 1 Statistical Methods

Groundwater quality data for Cell 1 landfill were evaluated using a combination of interwell and intrawell prediction limits for required parameters. Using intrawell methods utilize historical data from within a given well to establish a statistical limit for comparison of compliance data. As a result, each parameter will have a different statistical limit for each well. Interwell statistical analyses pools upgradient data to calculate a prediction limit for which downgradient data is compared. Data from the March 2019 detection monitoring event are compared to the calculated statistical limits (utilizing data through October 2018) to determine whether any concentrations exceed background levels. The selected statistical method(s) 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. If the initial finding was not verified by resampling, the resampled value replaced the initial finding. When the re-sample confirms the initial finding, both values remain in the database and an SSI is declared. Table 4.1.1, Statistical Method Summary, provides a summary of the statistical methodology used at Cell 1 routine detection groundwater monitoring.

TABLE 4.1.1 STATISTICAL METHOD SUMMARY - PLANT SCHERER CELL 1

Monitoring Well Network	Upgradient Wells	GWA-15, GWA-16, and GWA-17
	Downgradient Wells	GWC-1, GWC-2, GWC-3, GWC-4, GWC-5, GWC-6, GWC-7, GWC-8/GWC-8A, GWC-9, GWC-10, GWC-11, GWC-12, GWC-13, GWC-14, GWC-18, GWC-19, and GWC-20
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and Total Dissolved Solids (TDS)
	Appendix IV (Assessment Monitoring-if required)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
GA EPD Monitoring Parameters	State Metals (Detection Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available

TABLE 4.1.1 STATISTICAL METHOD SUMMARY - PLANT SCHERER CELL 1

Statistical Limits	Intrawell prediction limits for Appendix III (boron, calcium, chloride, fluoride, pH, sulfate, TDS) State Metals (barium, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc). Interwell predictions limits for Arsenic and Silver.
Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
Confidence Intervals	Used in Assessment and Corrective Action monitoring.
No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
Verification Resample Plan (Optional)	1-of-2 with minimum of 8 samples per well for interwell testing; 1-of-2 resample plan with a minimum of 10 samples per well for intrawell testing. <ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). ▪ If all resamples exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deem verified.

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6). This is true for antimony, beryllium, cadmium, mercury and thallium at Cell 1.
- When data contain less than or equal to 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 PQL as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.1.2 PAC Ash Cell Statistical Methods

Groundwater quality data for Cell 1 landfill were evaluated using intrawell prediction limits for required parameters. Using intrawell methods utilize historical data from within a given well to establish a statistical limit for comparison of compliance data. As a result, each parameter will have a different statistical limit for each well. The selected 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. If the initial finding was not verified by resampling, the resampled value replaced the initial finding. When the re-sample confirms the initial finding, both values remain in the database and an SSI is declared. Table 4.1.2, Statistical Method Summary, provides a summary of the statistical methodology used at PAC Ash Cell for routine detection groundwater monitoring.

TABLE 4.1.2 STATISTICAL METHOD SUMMARY - PLANT SCHERER PAC ASH CELL

Upgradient Wells	GWA-21, GWA-22, GWA-45, GWA-46, GWA-47, GWA-48, GWA-49
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TABLE 4.1.2 STATISTICAL METHOD SUMMARY - PLANT SCHERER PAC ASH CELL

Monitoring Well Network	Downgradient Wells	GWC-29, GWC-50, GWC-51, GWC-52, GWC-53
CCR Monitoring Parameters	Appendix III (Detection Monitoring)	Boron, Calcium, Chloride, Fluoride, pH, Sulfate, and TDS
	Appendix IV (Assessment Monitoring-if required)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Combined Radium 226 + 228, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, and Thallium
GA EPD Monitoring Parameters	State Metals (Detection Monitoring)	Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc
Statistical Methodology	Data Screening on Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Intrawell statistical limits will be applied for each well/constituent, depending on the appropriateness of the method as determined by the Analysis of Variance
	Prediction Limits	Parametric when data follow a normal or transformed normal distribution and when less than 50% non-detects, utilizing Kaplan Meier non-detect adjustment when applicable; nonparametric when data sets contain greater than 50% non-detects or when data are not normally or transformed-normally distributed.
	Confidence Intervals	Used in Assessment and Corrective Action monitoring.
	No Statistical Testing	Statistical testing is not required for parameters with 100% non-detects.
	Verification Resample Plan (Optional)	1-of-2 with minimum of 8 samples per well for intrawell testing. <ul style="list-style-type: none"> ▪ Initial statistical exceedance warrants independent resampling within 90 days. ▪ If resample passes, well/parameter is not a confirmed SSI. ▪ If resample exceeds, well/parameter has a confirmed SSI. ▪ If no resample is collected, the original result is deemed verified.

The following guidance is also applicable to the statistical analysis method:

- Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6). This is true for antimony, arsenic, copper, silver, and thallium at PAC Ash.
- When data contain less than or equal to 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 PQL as reported by the laboratory.
- When data contain between 15-50% non-detects, a non-detect adjustment such as the Kaplan-Meier or Regression on Order Statistics (ROS) method for adjustment of the mean and standard deviation will be used prior to constructing a parametric prediction limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.2 Statistical Analysis Results

The calculated prediction limits are included in Appendix B, Statistical Analysis Reports. Due to varying reporting limits in background data, the most recent reporting limit is used when data is not reported above detection limits, which results in a more appropriate statistical test. Review of the Sanitas™ results presented in Appendix B indicates that statistically significant increases (SSIs) were noted. Table 4.2.1, March 2019 Statistically Significant Increase Summary presents the SSIs noted following the March 2019 monitoring event.

Table 4.2.1: March 2019 Statistically Significant Increase Summary

Appendix III Constituents	Cell 1	PAC Ash Cell
Boron	No Exceedances	No Exceedances
Calcium	GWC-8A	No Exceedances
Chloride	No Exceedances	No Exceedances
Fluoride	No Exceedances	No Exceedances
pH	No Exceedances	No Exceedances
Sulfate	GWA-15 ^[1] , GWC-10, GWC-13	GWC-29 ^[2] , GWC-51, GWC-52
Total Dissolved Solids	GWC-8A	No Exceedances
State Monitoring Parameters		
Antimony	N/A ^[3]	N/A ^[3]
Arsenic	No Exceedances	N/A ^[3]
Barium	GWC-4	GWA-45 ^[1]
Beryllium	N/A ^[3]	No Exceedances
Cadmium	N/A ^[3]	No Exceedances
Chromium	No Exceedances	GWC-52
Cobalt	No Exceedances	No Exceedances
Copper	No Exceedances	N/A ^[3]
Lead	No Exceedances	No Exceedances
Mercury	N/A ^[3]	No Exceedances
Nickel	No Exceedances	No Exceedances
Selenium	No Exceedances	No Exceedances
Silver	No Exceedances	N/A ^[3]
Thallium	N/A ^[3]	N/A ^[3]
Vanadium	GWC-6	GWA-46 ^[1] , GWA-48 ^[1] , GWC-29, GWC-50, GWC-51
Zinc	No Exceedances	No Exceedances

Notes:

mg/L = milligrams per liter

- [1] This well is upgradient of a lined landfill unit. Groundwater flow directions observed during the March 2019 event are consistent with historical data and confirms the upgradient position of these wells. Because of this, an SSI at these wells cannot be attributed to the Cell 1 and PAC Ash units, but rather natural variability in groundwater chemistry or an alternate source. As a result, an ASD for the exceedances at upgradient wells is not warranted and has not been presented.
- [2] These exceedances are identified based on a rounding error. That is to say, exceedances would not occur if the limit were rounded to the same number of significant digits as the observed result and is the result of error in statistical evaluation (i.e., rounding error). Because the SSI was triggered in this manner, an ASD is not warranted and one has not been prepared.
- [3] Statistical analyses are not performed on analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).

Concentrations of Appendix III constituents and target metals are below respective prediction limits for each of the Cell 1 and PAC Ash monitoring wells with the exceptions noted above in Table 4.2.1. Initial, apparent statistical exceedances for barium, calcium, sulfate, TDS, and vanadium are noted for select monitoring wells at Cell 1, and initial apparent statistical exceedances of barium, chromium, sulfate and vanadium are noted for select monitoring wells at the PAC Ash unit. A verified statistical exceedance of chromium was identified at monitoring well GWC-52.

In lieu of immediate verification resampling, many of the of the statistical exceedances identified following the March 2019 sampling event can be addressed by multiple previous ASDs prepared for the site and is applicable to many of the initial statistical exceedances. An ASD summary for each of the statistical exceedances above the prediction limits identified following the March 2019 sampling event is underway and will be submitted under a separate cover in accordance with the schedule provided by the rule. The ASD will address each of the initial and verified statistical exceedance identified following the March 2019 event. Resampling for each of the initial apparent statistical exceedances will be completed during the next scheduled sampling event (September 2019) and presented in the ASD.

5.0 MONITORING PROGRAM STATUS

Plant Scherer Cell 1 and PAC Ash Cell is in detection monitoring. Table 2A and Table 2B presents the status of each well within the certified monitoring network for PAC Ash Cell and Cell 1, respectively. Statistical exceedances of select Appendix III constituents (Ca, SO₄, TDS), and select metals (Ba, Cr, and V) are identified following the March 2019 sampling event. GPC has addressed many of the reported exceedances in accordance with the requirements, and options, of Georgia EPD Solid Waste Management Rule (SWMR) by demonstrating alternate sources for the previous and current reported SSIs. A summary of the ASD for those SSIs initially reported is underway. As such, Cell 1 and PAC Ash Cell will remain in detection monitoring.

6.0 CONCLUSIONS

This 2019 *First Semi-Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Plant Scherer Solid Waste Facility Cell 1 & PAC Ash Cell Landfills has been prepared to fulfill the requirements of Georgia EPD SWMR, and the site's 2010 D&O Plan. Samples were obtained on March 26, March 27, March 28, and April 1, 2019. The groundwater flow direction and rates observed this event are consistent with historical evaluations.

Review of analytical results and statistical analyses developed for the site indicate that each statistical exceedance identified during the first semi-annual 2019 event can be addressed by the previously submitted ASDs and can be attributed to either natural variability in groundwater chemistry or a source other than the landfill units. The monitoring well network continues to effectively monitor the water bearing unit beneath Cell 1 and PAC Ash Cell.

Based on the findings presented herein, Plant Scherer will continue with detection groundwater monitoring and reporting. The next scheduled sampling event is scheduled for September 2019.

7.0 REFERENCES

- Georgia Environmental Protection Division, 1997, Criteria for Performing Site Acceptability Studies for Solid Waste Landfills in Georgia – Circular 14.
- Georgia (GA) Department of Natural Resources Environmental Protection Division (EPD) Chapter 391-3-4 Solid Waste Management; 2010 Solid Waste Permit 102-009D(LI).
- Heath, R.C., 1982, Basic Ground-Water Hydrology. Water Supply Paper 2220. U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado.
- Sanitas: Groundwater Statistical Software (2014), Sanitas Technologies, Shawnee, KS, 2007.
- Southern Company Generation Engineering and Construction Services, 2010. Groundwater Monitoring Plan Narrative of the Design & Operations (D&O) Plan for Plant Scherer Coal Combustion By-Product CCB Disposal Facility, February 26.
- Southern Company Services, 2007. Plant Scherer Proposed Coal Combustion By-Products Storage Facility Site Acceptability Report.
- State Waste Management Board. 2016. State Solid Waste Management Regulations – (9VAC20 81 et seq.). January.
- USEPA, 1996 Soil Guidance Manual
- USEPA, 2009, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance, EPA 530-R-09-007.
- USEPA, 2011, Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

TABLES & FIGURES

TABLE 1.
MONITORING WELL NETWORK SUMMARY
Georgia Power - Plant Scherer Juliette, GA

Well ID	Hydraulic Location	Latitude	Longitude	Top of Casing Elevation (feet msl)	Ground Surface Elevation (feet msl)	Total Depth (feet bgs)	Top of Screen Elevation (feet msl)	Bottom of Screen Elevation (feet msl)	Screen Length (feet)
GYMPSUM CELL 1									
GWA-15	Upgradient	33.07878	-83.79131	414.82	411.82	38.2	346.9	336.6	10.3
GWA-16	Upgradient	33.07806	-83.79152	444.06	440.74	58.2	332.1	321.8	10.3
GWA-17	Upgradient	33.07751	-83.79247	445.63	442.72	49.7	370.8	360.5	10.3
GWC-1	Downgradient	33.07653	-83.79300	374.75	371.54	43.3	378.6	368.3	10.3
GWC-2	Downgradient	33.07554	-83.79305	380.03	376.91	34.1	372.8	362.5	10.3
GWC-3	Downgradient	33.07466	-83.79356	410.22	407.19	48.5	377.5	367.2	10.3
GWC-4	Downgradient	33.07375	-83.79430	411.57	408.31	58.7	369.7	359.4	10.3
GWC-5	Downgradient	33.07290	-83.79499	396.50	393.18	53.5	364.6	354.3	10.3
GWC-6	Downgradient	33.07296	-83.79587	415.70	412.36	20.1	376.2	365.9	10.3
GWC-7	Downgradient	33.07393	-83.79635	418.07	414.29	58.7	369.7	359.4	10.3
GWC-8	Downgradient	33.07393	-83.79635	418.07	414.29	35.1	367.9	357.6	10.3
GWC-8A	Downgradient	33.07487	-83.79713	407.80	404.76	34.4	378.1	367.8	10.3
GWC-9	Downgradient	33.07578	-83.79786	386.01	383.02	37.7	385.3	375.0	10.3
GWC-10	Downgradient	33.07677	-83.79839	392.68	389.30	43.3	386.6	376.3	10.3
GWC-11	Downgradient	33.07764	-83.79930	402.19	399.06	27.5	386.2	375.9	10.3
GWC-12	Downgradient	33.07861633	-83.79873403	412.75	409.54	29.5	395.6	385.3	10.3
GWC-13	Downgradient	33.07927038	-83.79775975	419.58	416.54	57.8	396.5	386.2	10.3
GWC-14	Downgradient	33.07916324	-83.79656288	403.41	400.25	46.8	409.2	398.9	10.3
GWC-18	Downgradient	33.07858	-83.79554	439.64	436.36	60.4	389.6	379.3	10.3
GWC-19	Downgradient	33.07760	-83.79407	429.98	426.12	58.0	382.3	372.0	10.3
GWC-20	Downgradient	33.07844	-83.79249	426.09	422.82	72.7	363.7	353.4	10.3
PAC ASH CELL									
GWA-21	Background	33.08045	-83.79814	422.30	419.56	20.7	411.9	401.6	10.3
GWA-22	Background	33.08123	-83.79810	444.23	441.75	42.5	412.0	401.7	10.3
GWA-45	Background	33.08044	-83.80327	450.89	447.98	35.5	425.7	415.4	10.3
GWA-46	Background	33.08075	-83.80214	460.86	458.10	47.0	424.2	413.9	10.3
GWA-47	Background	33.08097	-83.80100	465.55	462.81	54.2	421.7	411.4	10.3
GWA-48	Background	33.08121	-83.79984	461.47	458.73	64.2	407.6	397.3	10.3
GWA-49	Background	33.08142	-83.79870	432.61	429.96	41.0	401.9	391.6	10.3
GWC-29	Compliance	33.07825	-83.80058	399.39	396.69	27.1	382.6	372.3	10.3
GWC-50	Compliance	33.07837	-83.79980	406.92	404.18	36.5	380.7	370.4	10.3
GWC-51	Compliance	33.07815	-83.80149	409.89	406.88	26.8	393.4	383.1	10.3
GWC-52	Compliance	33.07852	-83.80225	416.89	414.14	32.9	394.3	384.0	10.3
GWC-53	Compliance	33.07948	-83.80310	435.57	432.93	33.0	412.9	402.6	10.3

Notes:

1. feet msl = feet mean sea level
2. feet bgs = feet below ground surface



TABLE 2A.
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events			Status of Monitoring Well
		March 2018	October 2018	March/April 2019	
Purpose of Sampling Event		Detection	Detection	Detection	
PAC ASH CELL					
GWA-21	Upgradient	D02	D03	D04	Detection
GWA-22	Upgradient	D02	D03	D04	Detection
GWA-45	Upgradient	D02	D03	D04	Detection
GWA-46	Upgradient	D02	D03	D04	Detection
GWA-47	Upgradient	D02	D03	D04	Detection
GWA-48	Upgradient	D02	D03	D04	Detection
GWA-49	Upgradient	D02	D03	D04	Detection
GWC-29	Downgradient	D02	D03	D04	Detection
GWC-50	Downgradient	D02	D03	D04	Detection
GWC-51	Downgradient	D02	D03	D04	Detection
GWC-52	Downgradient	D02	D03	D04	Detection
GWC-53	Downgradient	D02	D03	D04	Detection

Notes:

BGXX = Background Event and Number

Dxx - Detection Event Number

V = Verification Event

TABLE 2B.
GROUNDWATER SAMPLING EVENT SUMMARY
Georgia Power Company - Plant Scherer
Juliette, Georgia

Well ID	Hydraulic Location	Summary of Sampling Events			Status of Monitoring Well
		March 2018	October 2018	March/April 2019	
Purpose of Sampling Event		Detection	Detection	Detection	
CELL 1					
GWA-15	Upgradient	D02	D03	D04	Detection
GWA-16	Upgradient	D02	D03	D04	Detection
GWA-17	Upgradient	D02	D03	D04	Detection
GWC-1	Downgradient	D02	D03	D04	Detection
GWC-2	Downgradient	D02	D03	D04	Detection
GWC-3	Downgradient	D02	D03	D04	Detection
GWC-4	Downgradient	D02	D03	D04	Detection
GWC-5	Downgradient	D02	D03	D04	Detection
GWC-6	Downgradient	D02	D03	D04	Detection
GWC-7	Downgradient	D02	D03	D04	Detection
GWC-8A ^[1]	Downgradient	D02	D03	D04	Detection
GWC-9	Downgradient	D02	D03	D04	Detection
GWC-10	Downgradient	D02	D03	D04	Detection
GWC-11	Downgradient	D02	D03	D04	Detection
GWC-12	Downgradient	D02	D03	D04	Detection
GWC-13	Downgradient	D02	D03	D04	Detection
GWC-14	Downgradient	D02	D03	D04	Detection
GWC-18	Downgradient	D02	D03	D04	Detection
GWC-19	Downgradient	D02	D03	D04	Detection
GWC-20	Downgradient	D02	D03	D04	Detection

Notes:

Dxx - Detection Event Number

^[1] Monitoring well GWC-8 was replaced with GWC-8A in May 2017.

TABLE 3.
SUMMARY OF GROUNDWATER ELEVATIONS
Georgia Power - Plant Scherer
Juliette, GA

Well ID	Top of Casing Elevation (feet/MSL)	GROUNDWATER ELEVATIONS (FEET MSL)														
		4/19/2016	5/10/2016	6/16/2017	8/8/2016	10/3/2016	11/28/2016	2/6/2017	4/4/2017	6/19/2017	10/3/2017	3/19/2018	6/4/2018	10/1/2018	2/19/2019	3/25/2019
CELL 1																
GWC-1	374.75	367.48	368.05	365.57	364.15	363.65	363.64	366.47	366.47	365.23	364.40	366.76	367.22	365.33	368.16	368.08
GWC-2	380.03	368.43	369.16	366.37	365.06	364.50	364.38	367.40	367.13	366.09	365.21	367.53	368.40	366.17	368.95	368.82
GWC-3	410.22	381.17	380.95	379.87	378.53	377.25	376.24	377.77	377.91	377.58	376.47	377.47	378.69	379.21	381.97	382.08
GWC-4	411.57	383.07	382.98	381.99	380.65	379.61	378.97	380.19	380.64	380.27	379.44	380.25	380.95	380.68	382.74	382.97
GWC-5	396.50	379.88	380.05	378.06	376.69	375.66	374.79	376.89	376.98	376.65	375.86	376.96	378.28	377.03	379.73	377.65
GWC-6	415.70	379.89	379.66	379.18	377.89	376.54	375.50	415.70	376.76	376.52	376.24	376.46	377.48	377.80	379.90	380.10
GWC-7	418.07	377.96	377.96	376.90	376.04	375.45	405.08	375.87	375.98	375.58	375.21	375.77	376.25	376.04	377.79	377.84
GWC-8	407.80	379.07	379.31	377.85	377.52	377.36	377.25	378.54	NM	NM	NM	NM	NM	NM	NM	NM
GWC-8A	401.47	Well Installed April 2017 to replace GWC-8							379.14	378.79	378.52	379.15	379.79	378.48	379.66	379.40
GWC-9	386.01	379.25	379.80	378.16	378.67	378.65	378.69	379.51	379.61	378.96	378.79	379.41	379.71	378.70	379.59	379.33
GWC-10	392.68	383.01	383.38	381.64	381.26	380.99	381.12	382.75	382.79	382.07	381.73	382.78	383.18	381.69	383.04	382.93
GWC-11	402.19	385.48	386.01	383.76	382.89	382.57	382.75	385.29	385.12	384.54	383.94	385.38	385.76	383.91	385.61	385.53
GWC-12	412.75	389.66	390.11	387.57	386.23	385.55	385.18	388.27	388.51	387.81	386.57	388.89	389.58	387.44	389.72	389.74
GWC-13	419.58	390.96	391.52	389.14	387.85	387.17	387.18	390.08	390.13	389.33	388.45	390.31	390.84	389.08	390.98	390.94
GWC-14	403.41	391.45	392.19	390.09	389.37	388.96	389.27	391.20	391.00	390.31	390.00	391.17	391.63	390.07	391.59	391.50
GWA-15	414.82	404.82	405.36	402.87	401.60	400.85	400.49	403.18	403.07	402.39	401.55	403.77	404.27	402.01	404.93	404.76
GWA-16	444.06	441.36	413.47	412.09	410.46	409.36	408.56	411.01	411.50	410.88	409.72	411.12	412.10	410.70	413.61	413.71
GWA-17	445.63	413.31	413.15	413.62	413.61	413.25	412.81	412.23	412.46	412.80	412.88	412.72	413.22	409.06	414.57	414.93
GWC-18	439.64	404.96	404.69	405.21	404.99	404.57	404.12	403.61	403.94	404.03	403.88	404.04	404.64	405.34	406.00	406.52
GWC-19	429.98	396.63	396.49	396.40	395.79	395.98	394.73	394.88	395.30	395.16	394.74	395.00	395.53	396.31	397.94	398.21
GWC-20	426.09	387.19	387.06	385.85	384.29	383.04	382.04	384.47	383.76	383.81	382.59	383.30	385.62	385.72	388.50	388.61
PAC ASH CELL																
GWA-21	422.30	401.62	419.84	417.78	416.09	415.01	414.28	417.56	417.23	416.32	415.01	416.70	418.44	415.91	419.44	419.37
GWA-22	444.23	413.71	424.21	421.31	419.02	417.65	416.78	420.17	420.00	418.83	417.19	418.73	420.92	418.17	422.73	422.77
GWA-45	450.89	439	439.86	436.32	433.83	432.49	431.26	436.65	436.79	434.80	432.95	435.98	436.94	433.05	437.92	445.56
GWA-46	460.86	431.84	431.64	431.10	457.58	428.39	427.42	428.75	429.16	428.74	427.61	428.28	428.97	427.96	430.38	447.97
GWA-47	465.55	427.95	427.74	428.44	427.85	426.87	425.95	425.53	425.65	425.34	424.72	424.17	424.47	424.97	426.31	435.34
GWA-48	461.47	426.51	426.17	426.27	425.24	424.04	423.02	422.65	423.61	423.07	422.19	421.93	422.74	422.54	424.92	422.67
GWA-49	432.61	424.89	426.17	422.33	419.98	418.65	418.06	421.84	421.31	419.82	418.12	420.06	422.24	419.10	423.82	396.71
GWC-29	399.39	394.04	394.18	393.71	393.55	393.43	393.48	394.37	393.82	393.68	393.64	394.01	394.19	393.74	394.06	390.74
GWC-50	406.92	398.85	399.05	398.15	397.69	397.34	397.2	398.14	398.10	397.79	397.42	398.12	398.57	397.64	398.62	398.72
GWC-51	409.89	401.55	401.76	401.19	400.88	400.77	400.47	401.28	401.16	400.95	400.88	401.39	401.87	401.07	401.59	401.49
GWC-52	416.89	407.99	408.04	407.88	407.75	407.61	407.49	407.82	407.78	407.72	407.69	407.85	407.94	407.73	408.04	407.93
GWC-53	435.57	426.65	426.83	425.59	424.43	423.63	422.86	425.49	425.17	424.60	423.89	425.18	425.69	423.98	426.09	426.16

Notes:

Feet MSL = feet above mean sea level
NM = Not Measured

TABLE 4.
HORIZONTAL GROUNDWATER VELOCITY CALCULATIONS -
MARCH 2019 Georgia Power - Plant Scherer
Juliette, GA

Flow Paths	Groundwater Elevation (feet msl)	Δh (feet) ²	Δl (feet) ³	Hydraulic Gradient ($\Delta h/\Delta l$)	Average Hydraulic Conductivity, K (feet per day) ⁵	Assumed Effective Porosity (n_e)	Average Linear Groundwater Velocity	
							(feet per day) ⁴	(feet per year) ⁴
Cell 1:								
GWA-17/GWC-7	414.93	37.09	2110	0.018	2.36	0.2	0.2	76
	377.84							
GWC-19/GWC-3	398.21	16.13	500	0.0323	2.36	0.2	0.4	139
	382.08							
PAC Ash:								
GWA-45/GWC-51	445.56	44.07	1062	0.041	2.36	0.2	0.5	179
	401.49							
GWA-47/GWC-50	435.34	36.62	1020	0.036	2.36	0.2	0.4	155
	398.72							

Notes:

1. ΔH = Change in groundwater elevation.
2. ΔL = Distance along flow path.
3. $I = \Delta H / \Delta L$.
4. Velocity = $(I * K)/n_e$.
5. Hydraulic conductivity range based on historic aquifer performance tests.
6. Effective porosity based on default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1996).

TABLE 5A.
ANALYTICAL DATA SUMMARY CELL 1 (MARCH 2019)
GPC PLANT SCHERER
JULIETTE, GEORGIA

Analyte	Units	SCREENING/TARGET LEVELS				GROUNDWATER MONITORING WELLS																					
		GA MCL	GA SMCL	PQL	MDL	GWA-15	GWA-16	GWA-17	GWC-1	GWC-2	GWC-3	GWC-4	GWC-5	GWC-6	GWC-7	GWC-8A	GWC-9	GWC-10	GWC-11	GWC-12	GWC-13	GWC-14	GWC-18	GWC-19	GWC-20		
APPENDIX III		Sample Date:				3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/27/2019	3/26/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	3/26/2019	
BORON, TOTAL	mg/L	N/R	N/A	0.05	0.021	ND	ND	ND	ND	ND	ND	ND	0.33	ND	ND	0.16	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CALCIUM, TOTAL	mg/L	N/R	N/A	0.23	0.13	4.0	11	6.7	16	17	7.3	13	75	16	14	47	16	16	12	1.1	6.3	6.4	9.6	11	12		
CHLORIDE, TOTAL	mg/L	N/R	250	1.0	0.89	5.5	1.5	1.3	3.6	1.9	3.0	9.2	42	4.2	1.7	6.6	3.0	2.4	1.5	1.7	1.6	2.5	2.7	1.8	1.9		
FLUORIDE, TOTAL	mg/L	4	2	0.2	0.082	ND	ND (0.041 J)	ND (0.042 J)	ND (0.072 J)	ND (0.046 J)	ND (0.046 J)	ND (0.087 J)	ND (0.038 J)	ND (0.058 J)	ND (0.040 J)	ND (0.071 J)	ND (0.066 J)	ND (0.077 J)	ND (0.048 J)	ND (0.026 J)	ND (0.040 J)	ND (0.034 J)	ND (0.046 J)	ND (0.040 J)	ND (0.045 J)		
pH	S.U.	5.5-7.5	N/A	N/A	N/A	5.41	6.42	6.12	6.54	6.44	6.02	6.34	5.78	6.25	6.38	6.69	6.7	6.53	6.22	5.25	5.89	5.63	6.38	6.35	6.52		
SULFATE, TOTAL	mg/L	N/R	250	1.0	0.7	2.1	ND	ND (0.58 J)	ND (0.53 J)	ND (0.99 J)	ND (0.47 J)	3.2	260	6.3	ND (0.51 J)	18	6.8	1.6	ND	ND (0.49 J)	1.3	ND (0.64 J)	ND (0.39 J)	ND	ND (0.45 J)		
TOTAL DISSOLVED SOLIDS	mg/L	N/R	500	5.0	3.4	45	100	82	150	130	86	130	580	130	120	300	140	140	100	29	59	60	94	100	110		
STATE PARAMETERS																											
ANTIMONY, TOTAL	mg/L	0.006	N/A	0.0025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ARSENIC, TOTAL	mg/L	0.01	N/A	0.0013	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (0.0012 J)	ND (0.00062 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BARIIUM, TOTAL	mg/L	2	N/A	0.0025	0.00049	0.0099	0.024	0.031	0.044	0.045	0.015	0.053	0.038	0.052	0.033	0.025	0.018	0.027	0.015	0.017	0.035	0.0092	0.033	0.018	0.030		
BERYLLIUM, TOTAL	mg/L	0.004	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CADMIUM, TOTAL	mg/L	0.005	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
CHROMIUM, TOTAL	mg/L	0.1	N/A	0.0025	0.0011	ND	0.0046	0.0065	0.013	0.0096	0.0075	0.0084	0.0039	0.0044	0.0088	ND	0.0064	0.017	0.0070	ND (0.0013 J)	0.0048	ND	0.014	0.0091	0.0092		
COBALT, TOTAL	mg/L	N/R	N/A	0.0025	0.0004	ND (0.0019 J)	ND	ND	ND	ND	ND	ND (0.00096 J)	ND	ND	ND	ND (0.0012 J)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
COPPER, TOTAL	mg/L	1.3	N/A	0.0025	0.0021	ND	ND	ND	ND	ND	ND	0.0039	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LEAD, TOTAL	mg/L	0.015	N/A	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MERCURY, TOTAL	mg/L	0.002	N/A	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
NICKEL, TOTAL	mg/L	0.1	N/A	0.0025	0.0018	ND	ND	ND	ND	ND	ND	0.0036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SELENIUM, TOTAL	mg/L	0.05	N/A	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	0.023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SILVER, TOTAL	mg/L	0.1	N/A	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
THALLIUM, TOTAL	mg/L	0.002	N/A	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
VANADIUM, TOTAL	mg/L	N/R	N/A	0.0025	0.0014	ND	0.0070	0.0051	0.017	0.016	0.0076	0.011	ND (0.002 J)	0.012	0.013	0.0030	0.019	0.012	0.012	0.0029	0.0041	0.0034	0.0094	0.0094	0.018		
ZINC, TOTAL	mg/L	5	N/A	0.02	6.5E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	

- NOTES:**
1. Results bolded denote a MCL exceedance.
 2. S.U. - Standard Unit
 3. mg/L - Milligrams per Liter
 4. N/A - Indicates constituent does not have a Maximum or Secondary Contaminant Limit.
 5. MDL - Method Detection Limit
 6. PQL - Practical Quantitation Limit
 7. J - Result is an estimated value. The result is greater than or equal to the MDL and less than the PQL.
 8. ND - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect.
 9. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.

TABLE 5B.
ANALYTICAL DATA SUMMARY PAC ASH CELL (MARCH 2019)
GPC PLANT SCHERER
JULIETTE, GEORGIA

Analyte	Units	SCREENING/TARGET LEVELS				GROUNDWATER MONITORING WELLS											
		GA MCL	GA SMCL	PQL	MDL	GWA-21	GWA-22	GWA-45	GWA-46	GWA-47	GWA-48	GWA-49	GWC-29	GWC-50	GWC-51	GWC-52	GWC-53
APPENDIX III		Sample Date:				3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/27/2019	3/28/2019	3/28/2019	3/27/2019	3/28/2019	3/28/2019
BORON, TOTAL	mg/L	N/A	N/A	0.05	0.021	ND	ND	0.74	ND	ND	ND	ND	ND	ND	ND	ND	0.97
CALCIUM, TOTAL	mg/L	N/A	N/A	0.23	0.13	9.5	7.1	39	6.1	11	13	15	11	7.2	7.0	15	18
CHLORIDE, TOTAL	mg/L	N/A	250	1.0	0.89	2.9	2.0	9.6	3.7	1.2	1.5	1.9	2.8	1.8	7.0	7.5	12
FLUORIDE, TOTAL	mg/L	4.0	2.0	0.2	0.082	ND (0.035 J)	ND (0.036 J)	ND	ND (0.033 J)	ND (0.041 J)	ND (0.040 J)	ND (0.037 J)	ND (0.033 J)	ND (0.042 J)	ND	ND (0.039 J)	ND
pH	S.U.	5.5-7.5	N/A	N/A	N/A	5.97	6.04	6.31	5.95	6.52	6.86	6.91	5.95	5.71	5.94	6.71	5.67
SULFATE, TOTAL	mg/L	N/A	250	1.0	0.7	ND (0.81 J)	ND	140	ND (0.52 J)	ND	1.6	ND (0.56 J)	3.2	ND (0.38 J)	2.7	29	170
TOTAL DISSOLVED SOLIDS	mg/L	N/A	500	5	3.4	98	76	290	66	94	100	120	88	65	76	140	280
STATE PARAMETERS																	
ANTIMONY, TOTAL	mg/L	0.006	N/A	0.0025	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.01	N/A	0.0013	0.00046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM, TOTAL	mg/L	2.0	N/A	0.0025	0.00049	0.024	0.022	0.057	0.021	0.026	0.013	0.019	0.017	0.012	0.011	0.014	0.045
BERYLLIUM, TOTAL	mg/L	0.004	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.005	N/A	0.0025	0.00034	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	0.1	N/A	0.0025	0.0011	0.0030	0.0078	ND	0.0048	0.0081	0.0051	0.0056	ND (0.0012 J)	0.0043	0.0044	0.019	ND
COBALT, TOTAL	mg/L	N/A	N/A	0.0025	0.0004	ND	ND	ND (0.00083 J)	ND	ND	ND	ND	ND	ND	ND	ND	0.011
COPPER, TOTAL	mg/L	N/A	1.0	1.3	0.0021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LEAD, TOTAL	mg/L	N/A	N/A	0.0013	0.00035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.002	N/A	0.0002	0.00007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.1	N/A	0.0025	0.0018	ND	ND	ND	ND	ND	ND	ND	0.0038	ND	ND (0.0024 J)	ND	0.0069
SELENIUM, TOTAL	mg/L	0.05	N/A	0.0013	0.00024	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER, TOTAL	mg/L	N/A	0.1	0.00025	0.00011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	0.002	N/A	0.0005	8.5E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0014	0.0072	0.0071	ND (0.0023 J)	0.0072	0.012	0.022	0.021	0.0079	0.0053	0.0087	0.010	0.0041
ZINC, TOTAL	mg/L	N/A	5.0	0.02	6.5E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (0.013 J)

NOTES:

1. Results bolded denote a MCL exceedance.
2. S.U. - Standard Unit
3. mg/L - Milligrams per Liter
4. N/A - Indicates constituent does not have a Maximum or Secondary Contaminant Limit
5. MDL - Method Detection Limit
6. PQL - Practical Quantitation Limit
7. J - Result is an estimated value. The result is greater than or equal to the MDL and less than the PQL.
8. ND - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect.
9. GA MCL/SMCL - Georgia Maximum Contaminant Level/Secondary Contaminant Level - Georgia Department of Natural Resources Environmental Protection Division Chapter 391-3-4 Solid Waste management Rule.



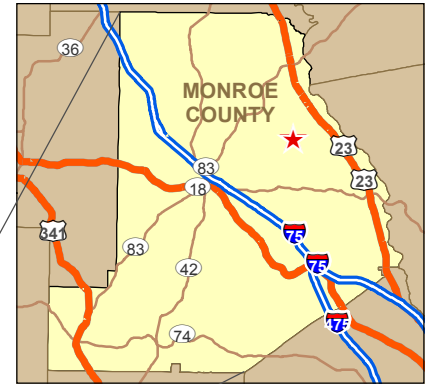
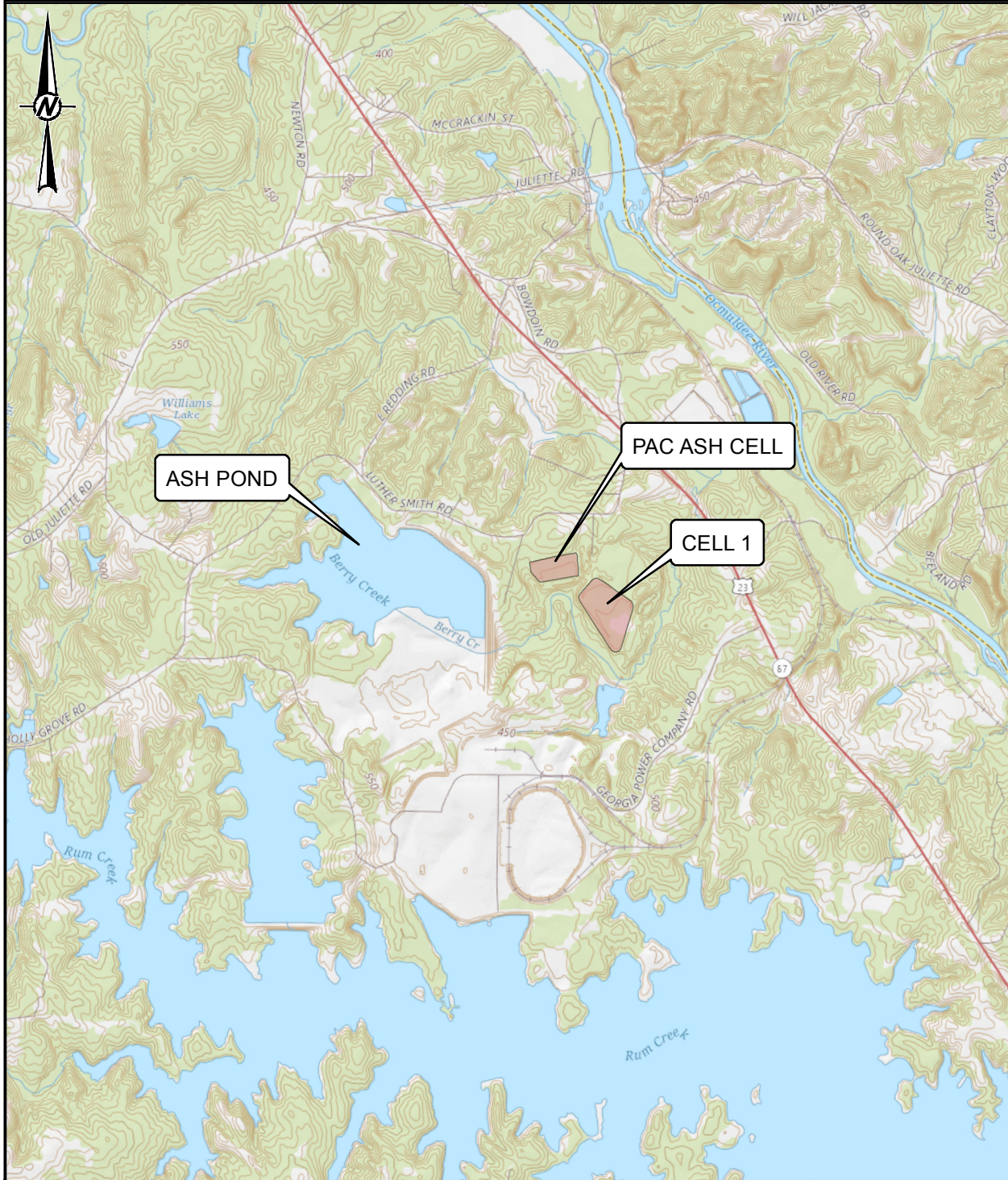
TABLE 5C.
SURFACE WATER ANALYTICAL DATA SUMMARY (APRIL 2019)
GPC PLANT SCHERER
JULIETTE, GEORGIA



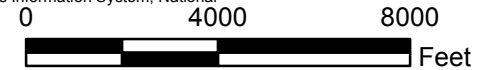
Analyte	Units	Screening / Target Levels				SURFACE WATER SAMPLING LOCATIONS							
		GA SWS		PQL	MDL	SWA-1	SWA-2	SWA-3	SWC-4	SWC-5	SWC-6	SWC-7	SWC-8
Sample Date:		Chronic	Acute					4/1/2019	4/1/2019	4/1/2019	4/1/2019	4/1/2019	4/1/2019
FIELD MONITORING PARAMETERS													
pH	SU	6.0-8.5	6.0-8.5	N/A	N/A	NS	6.77	7.07	7.20	6.80	7.42	7.37	7.12
ORP	mV	N/A	N/A	N/A	N/A	NS	89.1	82.2	90.6	101.0	72.0	94.0	96.0
SPECIFIC CONDUCTANCE	us/cm	N/A	N/A	N/A	N/A	NS	552.3	279.4	349.4	367.6	123.2	323.1	425.6
DISSOLVED OXYGEN	mg/L	>5.0	>5.0	N/A	N/A	NS	8.82	9.48	9.51	12.55	9.52	11.03	9.11
TEMPERATURE	C	N/A	N/A	N/A	N/A	NS	17.32	17.54	16.40	19.86	17.22	15.94	17.76
TURBIDITY	NTU	N/A	N/A	N/A	N/A	NS	3.60	2.80	3.26	1.09	11.6	3.64	3.81
APPENDIX III													
BORON, TOTAL	mg/L	N/A	N/A	0.1	0.021	NS	1.2	0.59	0.63	0.061	ND	0.51	0.87
CALCIUM, TOTAL	mg/L	N/A	N/A	0.2	0.13	NS	35	13	22	37	10	23	26
CHLORIDE, TOTAL	mg/L	N/A	N/A	1.0	0.89	NS	12	10	8.1	16	2.3	8.7	9.9
FLUORIDE, TOTAL	mg/L	N/A	N/A	0.2	0.082	NS	ND (0.028 J)	ND	ND	ND (0.12 J)	ND (0.037 J)	ND (0.081 J)	ND
SULFATE, TOTAL	mg/L	N/A	N/A	1	0.7	NS	200	88	110	63	1.3	87	140
TOTAL DISSOLVED SOLIDS	mg/L	N/A	N/A	5.0	3.4	NS	400	210	250	260	100	230	300
STATE REQUIRED INORGANICS													
CHEMICAL OXYGEN DEMAND	mg/L	N/A	N/A	10.0	6.4	NS	19	15	N/S	N/S	N/S	ND	N/S
CYANIDE, TOTAL	mg/L	N/A	N/A	0.0	0.005	NS	ND	ND	N/S	N/S	N/S	ND	N/S
TOTAL ORGANIC CARBON	mg/L	N/A	N/A	1.0	0.5	NS	1.4	ND (0.67 J)	N/S	N/S	N/S	1.7	N/S
STATE REQUIRED METALS													
ANTIMONY, TOTAL	mg/L	N/A	N/A	0.0025	0.001	NS	ND	ND	ND	ND	ND	ND	ND
ARSENIC, TOTAL	mg/L	0.15	0.34	0.0013	0.00046	NS	ND	ND	ND	ND	ND (0.0010 J)	ND (0.0011 J)	ND (0.00081 J)
BARIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.00049	NS	0.070	0.044	0.051	0.032	0.032	0.058	0.061
BERYLLIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.00034	NS	ND	ND	ND	ND	ND	ND	ND
CADMIUM, TOTAL	mg/L	0.0013	0.002	0.0025	0.00034	NS	ND	ND	ND	ND	ND	ND	ND
CHROMIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0011	NS	ND	ND	ND	0.0035	ND (0.0013 J)	ND	ND
COBALT, TOTAL	mg/L	N/A	N/A	0.0025	0.0004	NS	0.0054	0.0041	ND (0.0020 J)	ND	0.0032	ND (0.00043 J)	0.0049
COPPER, TOTAL	mg/L	0.005	0.007	0.0025	0.0021	NS	ND	ND	ND	ND	ND	ND (0.0023 J)	ND
LEAD, TOTAL	mg/L	0.0012	0.03	0.0013	0.00035	NS	ND	ND	ND	ND	ND	ND	ND
MERCURY, TOTAL	mg/L	0.000012	0.0014	0.0002	0.00007	NS	ND	ND	ND	ND	ND	ND	ND
NICKEL, TOTAL	mg/L	0.029	0.26	0.0025	0.0018	NS	ND	ND	ND	ND	ND	ND	ND
SELENIUM, TOTAL	mg/L	0.005	N/A	0.0013	0.00024	NS	ND	ND	ND	0.0035	ND	ND	ND
SILVER, TOTAL	mg/L	N/A	N/A	0.00025	0.00011	NS	ND	ND	ND	ND	ND	ND	ND
THALLIUM, TOTAL	mg/L	N/A	N/A	0.0005	8.5E-05	NS	ND	ND	ND	ND	ND	ND	ND
VANADIUM, TOTAL	mg/L	N/A	N/A	0.0025	0.0014	NS	0.0030	0.0037	0.0044	0.0087	0.0081	0.0072	0.0056
ZINC, TOTAL	mg/L	0.065	0.065	0.02	6.5E-03	NS	ND	ND	ND	ND	ND	ND	ND

NOTES:

1. mg/L - Milligrams per Liter; SU - Standard Units; mV - millivolts; C - degrees Celcius; NTU - Nephelometric Turbidity Unit
2. PQL = Practical Quantitation Limit
3. MDL - Method Detection Limit.
4. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
5. ND - Constituent was analyzed for, but was not detected above the MDL and is considered a non-detect.
6. N/A - Not Applicable. No Screening Limit Available.
7. N/S - Not sampled as per the site D&O Plan. Locations SWA-1, SWA-2, SWA-3, and SWC-7 only are sampled for COD, Chloride, Cyanide, & TOC; or no samples collected because location was dry at the time of sampling.
8. GASWS = Georgia Surface Water Quality Standards



Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National



CLIENT
 GEORGIA POWER COMPANY
 PLANT SCHERER



PROJECT
 2018 1ST SEMI-ANNUAL GROUNDWATER MONITORING
 PLANT SCHERER

TITLE
SITE LOCATION MAP

CONSULTANT



YYYY-MM-DD	2018-01-31
PREPARED	DJC
DESIGN	DLP
REVIEW	<i>djp</i>
APPROVED	<i>rpk</i>

PROJECT No.
 1662350

CONTROL
 1662350\000-GIS.mxd

Rev.
 0

FIGURE
 1



LEGEND

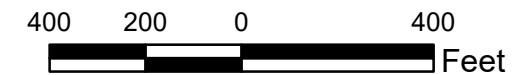
- EXISTING TOPOGRAPHY
- PROPERTY BOUNDARY
- CELL 1 LANDFILL MONITORING WELL
- PAC ASH LANDFILL MONITORING WELL
- SURFACE WATER SAMPLE LOCATION

NOTES

1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.

REFERENCE

1. SERVICE LAYER CREDITS: ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY
2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.



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 PLANT SCHERER



PROJECT
LANDFILL REPORT

TITLE
SITE PLAN AND MONITORING WELL LOCATION MAP

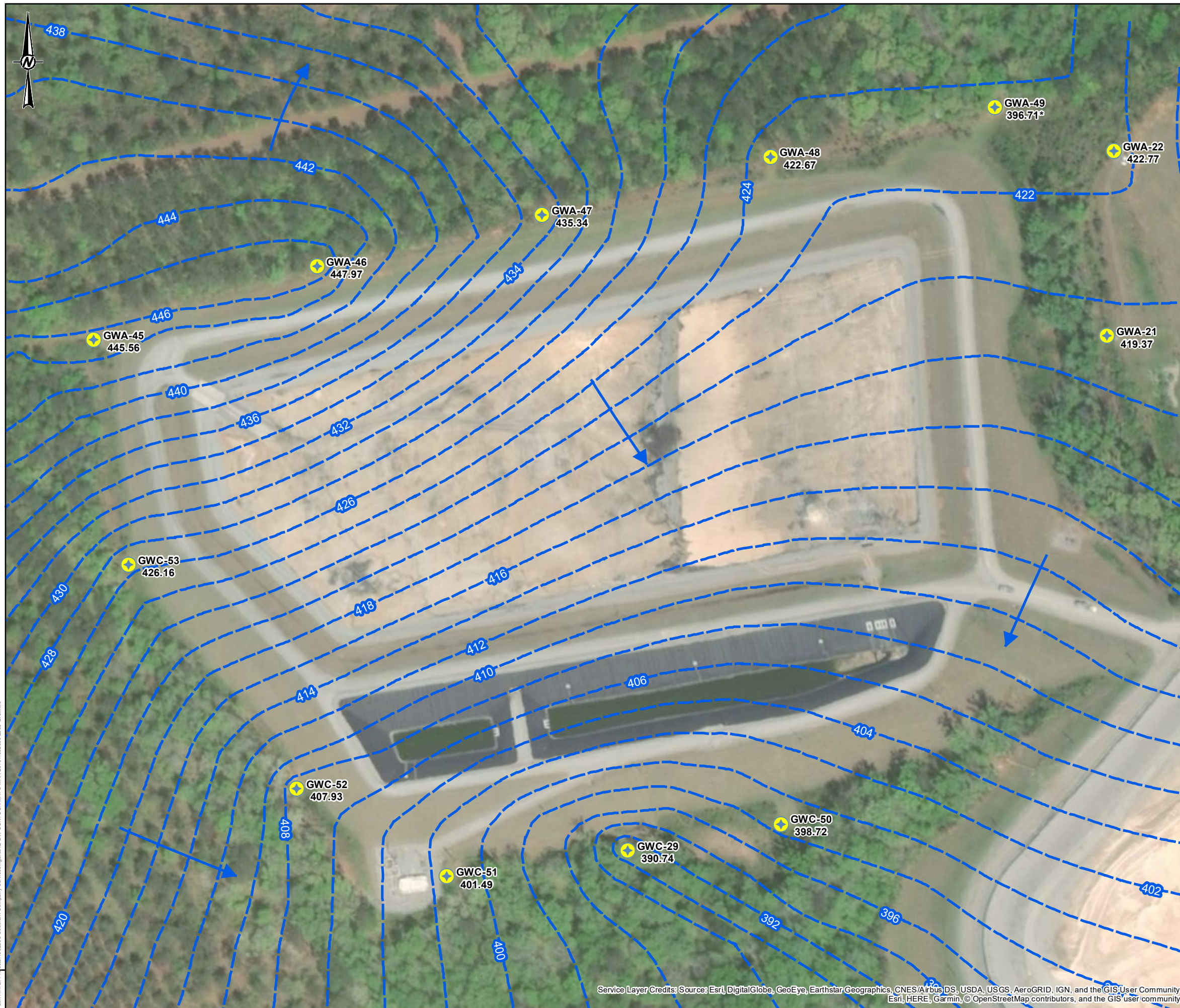
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		PREPARED	DJC
		DESIGN	DLP
		REVIEW	DLP
		APPROVED	RPK

PROJECT No. 1662350 CONTROL 1662350A001-GIS.mxd Rev. 0 FIGURE 2

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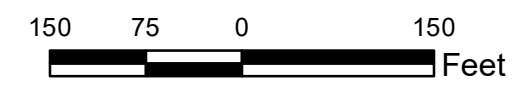
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANSB



- LEGEND**
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
 - EXISTING TOPOGRAPHY
 - PAC ASH LANDFILL MONITORING WELL WITH ELEVATION
 - GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MARCH 25, 2019 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
 4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
 5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.
 6. GWA-49 NOT USED FOR CONTOURING.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY. ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
 2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
 4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).



DRAFT

CLIENT
GEORGIA POWER COMPANY
 PLANT SCHERER

PROJECT
 SEMI-ANNUAL COMPLIANCE EVENT

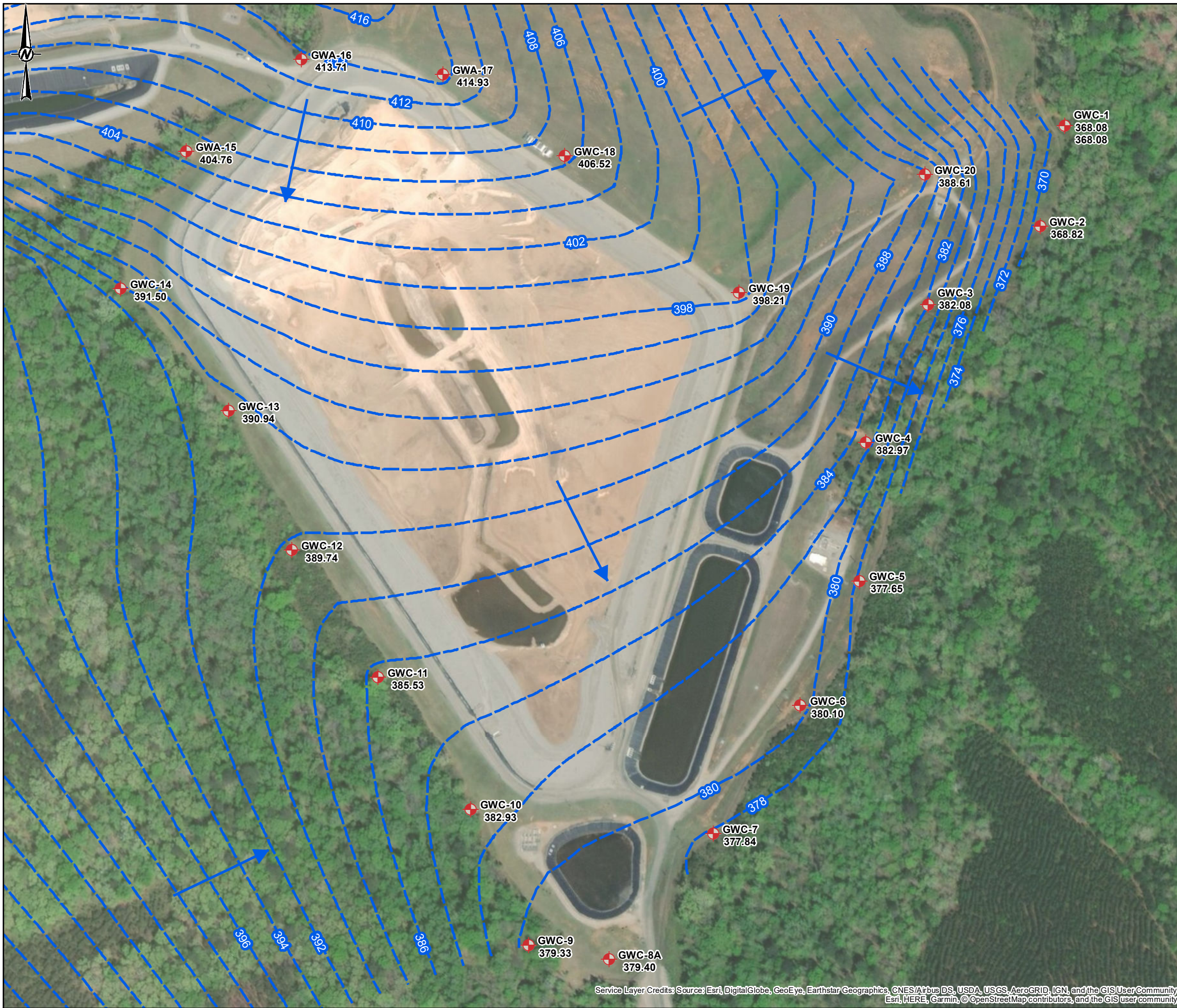
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PAC ASH CELL POTENTIOMETRIC SURFACE MAP
 MARCH 25, 2019

CONSULTANT	YYYY-MM-DD	2019-06-28
	PREPARED	DJC
	DESIGN	DLP
	REVIEW	
APPROVED		

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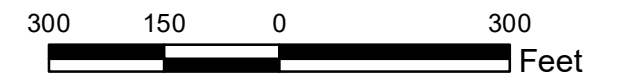
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET HAS BEEN MODIFIED FROM ANS B



- LEGEND**
- GROUNDWATER ELEVATION CONTOUR (FAMSL)
 - EXISTING TOPOGRAPHY
 - CELL 1 LANDFILL MONITORING WELL WITH ELEVATION
 - GROUNDWATER FLOW DIRECTION

- NOTES**
1. ALL LOCATIONS AND BOUNDARIES ARE APPROXIMATE.
 2. GROUNDWATER ELEVATION MEASUREMENTS OBTAINED MARCH 25, 2019 BY GOLDER ASSOCIATES.
 3. GROUNDWATER ELEVATIONS DISPLAYED IN FEET ABOVE MEAN SEA LEVEL (FAMSL).
 4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS, THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL CONTOURS.
 5. GROUNDWATER CONTOUR INTERVAL IS 2 FT.

- REFERENCE**
1. SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRIID, IGN, AND THE GIS USER COMMUNITY ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
 2. COORDINATE SYSTEM: NAD 1983 STATE PLAN GEORGIA WEST (U.S. FEET).
 3. MONITORING WELL/PIEZOMETER LOCATIONS PROVIDED BY SOUTHERN COMPANY SERVICES.
 4. EXISTING TOPOGRAPHY FROM THE NATIONAL ELEVATION DATASET (NED).



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CLIENT
GEORGIA POWER COMPANY
 PLANT SCHERER

PROJECT
 SEMI-ANNUAL COMPLIANCE EVENT

TITLE
CELL 1 LANDFILL POTENTIOMETRIC SURFACE MAP
MARCH 25, 2019

CONSULTANT	YYYY-MM-DD	2019-06-28
GOLDER	PREPARED	DJC
	DESIGN	DLP
	REVIEW	
	APPROVED	

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APPENDIX A

ANALYTICAL RESULTS, FIELD DATA FORMS, DATA VALIDATION SUMMARIES

ANALYTICAL RESULTS

CELL 1

ANALYTICAL REPORT

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

Laboratory Job ID: 180-88203-1
Laboratory Sample Delivery Group: Cell1 LF
Client Project/Site: CCR - Plant Scherer

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

Attn: Joju Abraham



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4/15/2019 4:47:10 PM

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	19
QC Sample Results	38
QC Association Summary	45
Chain of Custody	50
Receipt Checklists	58

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Job ID: 180-88203-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-88203-1

Comments

No additional comments.

Receipt

The samples were received on 3/28/2019 8:45 AM and 3/29/2019 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.1° C, 3.4° C, 3.7° C and 4.0° C.

Anions

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

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435790 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The laboratory control sample (LCS) for preparation batch 400-435839 and analytical batch 400-436341 recovered outside control limits for the following analytes: Silver. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
 SDG: Cell1 LF

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88203-1	GWA-15	Water	03/26/19 10:45	03/28/19 08:45
180-88203-2	GWA-16	Water	03/26/19 11:20	03/28/19 08:45
180-88203-3	GWA-17	Water	03/26/19 10:25	03/28/19 08:45
180-88203-4	GWC-1	Water	03/26/19 12:10	03/28/19 08:45
180-88203-5	GWC-2	Water	03/26/19 13:05	03/28/19 08:45
180-88203-6	GWC-3	Water	03/26/19 16:40	03/28/19 08:45
180-88203-7	GWC-4	Water	03/26/19 14:30	03/28/19 08:45
180-88203-8	GWC-6	Water	03/26/19 15:05	03/28/19 08:45
180-88203-9	GWC-12	Water	03/26/19 15:50	03/28/19 08:45
180-88203-10	GWC-13	Water	03/26/19 15:00	03/28/19 08:45
180-88203-11	GWC-14	Water	03/26/19 13:55	03/28/19 08:45
180-88203-12	GWC-18	Water	03/26/19 11:50	03/28/19 08:45
180-88203-13	GWC-19	Water	03/26/19 10:00	03/28/19 08:45
180-88203-14	GWC-20	Water	03/26/19 15:30	03/28/19 08:45
180-88203-15	EB-1 (LF)	Water	03/26/19 15:45	03/28/19 08:45
180-88203-16	EB-2 (LF)	Water	03/26/19 16:45	03/28/19 08:45
180-88203-17	FD-1 (LF)	Water	03/26/19 00:00	03/28/19 08:45
180-88203-18	FB-1 (LF)	Water	03/26/19 11:15	03/28/19 08:45
180-88290-1	GWC-5	Water	03/27/19 09:49	03/29/19 08:50
180-88290-2	GWC-7	Water	03/27/19 11:05	03/29/19 08:50
180-88290-3	GWC-8A	Water	03/27/19 10:20	03/29/19 08:50
180-88290-4	GWC-9	Water	03/27/19 12:29	03/29/19 08:50
180-88290-5	GWC-10	Water	03/27/19 11:42	03/29/19 08:50
180-88290-6	GWC-11	Water	03/27/19 10:50	03/29/19 08:50
180-88290-7	FB-2 (LF)	Water	03/27/19 10:55	03/29/19 08:50
180-88290-8	FD-2 (LF)	Water	03/27/19 00:00	03/29/19 08:50

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWA-15

Date Collected: 03/26/19 10:45

Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 10:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:32	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWA-16

Date Collected: 03/26/19 11:20

Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 07:33	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:36	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWA-17

Date Collected: 03/26/19 10:25

Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:20	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 09:39	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-1
Date Collected: 03/26/19 12:10
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-2
Date Collected: 03/26/19 13:05
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 11:49	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-3
Date Collected: 03/26/19 16:40
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 08:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-4
Date Collected: 03/26/19 14:30
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:05	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-6
Date Collected: 03/26/19 15:05
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:21	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-12
Date Collected: 03/26/19 15:50
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:36	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:21	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-13
Date Collected: 03/26/19 15:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 12:52	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:25	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-14
Date Collected: 03/26/19 13:55
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:30	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Client Sample ID: GWC-18
Date Collected: 03/26/19 11:50
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 10:11	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:33	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274370	03/29/19 13:08	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-19
Date Collected: 03/26/19 10:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:08	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 10:37	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Client Sample ID: GWC-20
Date Collected: 03/26/19 15:30
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 09:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:00	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Client Sample ID: EB-1 (LF)
Date Collected: 03/26/19 15:45
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 06:39	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:04	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:37	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: EB-2 (LF)

Lab Sample ID: 180-88203-16

Date Collected: 03/26/19 16:45

Matrix: Water

Date Received: 03/28/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 06:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:08	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:39	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Client Sample ID: FD-1 (LF)

Lab Sample ID: 180-88203-17

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:12	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Client Sample ID: FB-1 (LF)

Lab Sample ID: 180-88203-18

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 07:10	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435790	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:16	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435593	04/02/19 14:16	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:42	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274388	03/29/19 14:27	AVS	TAL PIT

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-5
Date Collected: 03/27/19 09:49
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:27	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Total/NA	Analysis	EPA 300.0 R2.1		5			274459	04/01/19 10:43	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:06	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-7
Date Collected: 03/27/19 11:05
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 10:59	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:46	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:08	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274515	04/01/19 14:05	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: GWC-8A
Date Collected: 03/27/19 10:20
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 11:15	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 21:50	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:10	JAP	TAL PEN
Instrument ID: HYDRA AA2										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-8A

Lab Sample ID: 180-88290-3

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWC-9

Lab Sample ID: 180-88290-4

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 21:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWC-10

Lab Sample ID: 180-88290-5

Date Collected: 03/27/19 11:42

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 13:55	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWC-11

Lab Sample ID: 180-88290-6

Date Collected: 03/27/19 10:50

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 11:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 22:21	DRE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-11
Date Collected: 03/27/19 10:50
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:25	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FB-2 (LF)
Date Collected: 03/27/19 10:55
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 13:21	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:26	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:27	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: FD-2 (LF)
Date Collected: 03/27/19 00:00
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			274459	04/01/19 12:18	MJH	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	435839	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436341	04/04/19 22:30	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	435577	04/02/19 14:33	JAP	TAL PEN
Total/NA	Analysis	7470A		1			435757	04/03/19 13:29	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWA-15
Date Collected: 03/26/19 10:45
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		1.0	0.71	mg/L			04/01/19 10:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 10:30	1
Sulfate	2.1		1.0	0.38	mg/L			04/01/19 10:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:32	5
Barium	0.0099		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:32	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
Calcium	4.0		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:32	5
Cobalt	0.0019	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:32	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:32	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:32	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:32	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:32	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:32	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:32	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	45		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWA-16
Date Collected: 03/26/19 11:20
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 07:33	1
Fluoride	0.041	J	0.20	0.026	mg/L			04/01/19 07:33	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:36	5
Barium	0.024		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:36	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:36	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:36	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWA-16
Date Collected: 03/26/19 11:20
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0046		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:36	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:36	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:36	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:36	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:36	5
Vanadium	0.0070		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:36	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:36	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:36	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWA-17
Date Collected: 03/26/19 10:25
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.3		1.0	0.71	mg/L			04/01/19 08:20	1
Fluoride	0.042	J	0.20	0.026	mg/L			04/01/19 08:20	1
Sulfate	0.58	J	1.0	0.38	mg/L			04/01/19 08:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:39	5
Barium	0.031		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:39	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
Calcium	6.7		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:39	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:39	5
Chromium	0.0065		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:39	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:39	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:39	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:39	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:39	5
Vanadium	0.0051		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:39	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:39	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:39	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWA-17
Date Collected: 03/26/19 10:25
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	82		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-1
Date Collected: 03/26/19 12:10
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.6		1.0	0.71	mg/L			04/01/19 08:36	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 08:36	1
Sulfate	0.53	J	1.0	0.38	mg/L			04/01/19 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:02	5
Barium	0.044		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:02	5
Chromium	0.013		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:02	5
Vanadium	0.017		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-2
Date Collected: 03/26/19 13:05
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 11:49	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-2
Date Collected: 03/26/19 13:05
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 11:49	1
Sulfate	0.99	J	1.0	0.38	mg/L			04/01/19 11:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:06	5
Barium	0.045		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Calcium	17		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:06	5
Chromium	0.0096		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:06	5
Vanadium	0.016		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-3
Date Collected: 03/26/19 16:40
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			04/01/19 08:52	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 08:52	1
Sulfate	0.47	J	1.0	0.38	mg/L			04/01/19 08:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:10	5
Barium	0.015		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Calcium	7.3		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:10	5
Chromium	0.0075		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:10	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-3
Date Collected: 03/26/19 16:40
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:10	5
Vanadium	0.0076		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	86		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-4
Date Collected: 03/26/19 14:30
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		1.0	0.71	mg/L			04/01/19 12:05	1
Fluoride	0.087	J	0.20	0.026	mg/L			04/01/19 12:05	1
Sulfate	3.2		1.0	0.38	mg/L			04/01/19 12:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:14	5
Barium	0.053		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
Calcium	13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:14	5
Cobalt	0.00096	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:14	5
Chromium	0.0084		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:14	5
Copper	0.0039		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:14	5
Nickel	0.0036		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:14	5
Vanadium	0.011		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:13	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-4
Date Collected: 03/26/19 14:30
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-6
Date Collected: 03/26/19 15:05
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.2		1.0	0.71	mg/L			04/01/19 12:21	1
Fluoride	0.058	J	0.20	0.026	mg/L			04/01/19 12:21	1
Sulfate	6.3		1.0	0.38	mg/L			04/01/19 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:18	5
Barium	0.052		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Calcium	16		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-12
Date Collected: 03/26/19 15:50
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 12:36	1
Fluoride	0.026	J	0.20	0.026	mg/L			04/01/19 12:36	1
Sulfate	0.49	J	1.0	0.38	mg/L			04/01/19 12:36	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-12
Date Collected: 03/26/19 15:50
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:21	5
Barium	0.017		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:21	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
Calcium	1.1		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:21	5
Chromium	0.0013	J	0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:21	5
Vanadium	0.0029		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:21	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	29		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-13
Date Collected: 03/26/19 15:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.6		1.0	0.71	mg/L			04/01/19 12:52	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 12:52	1
Sulfate	1.3		1.0	0.38	mg/L			04/01/19 12:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:25	5
Barium	0.035		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:25	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
Calcium	6.3		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:25	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:25	5
Chromium	0.0048		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:25	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:25	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:25	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:25	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-13
Date Collected: 03/26/19 15:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:25	5
Vanadium	0.0041		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:25	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:25	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	59		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-14
Date Collected: 03/26/19 13:55
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.5		1.0	0.71	mg/L			04/01/19 13:08	1
Fluoride	0.034	J	0.20	0.026	mg/L			04/01/19 13:08	1
Sulfate	0.64	J	1.0	0.38	mg/L			04/01/19 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:30	5
Barium	0.0092		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:30	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
Calcium	6.4		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:30	5
Vanadium	0.0034		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:30	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		10	10	mg/L			03/29/19 13:08	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-18
Date Collected: 03/26/19 11:50
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/01/19 10:11	1
Fluoride	0.046	J	0.20	0.026	mg/L			04/01/19 10:11	1
Sulfate	0.39	J	1.0	0.38	mg/L			04/01/19 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:33	5
Barium	0.033		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:33	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Calcium	9.6		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:33	5
Chromium	0.014		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:33	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:33	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:33	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:33	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:33	5
Vanadium	0.0094		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:33	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:33	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			03/29/19 13:08	1

Client Sample ID: GWC-19
Date Collected: 03/26/19 10:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/01/19 09:08	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 09:08	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 09:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 10:37	5
Barium	0.018		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 10:37	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 10:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 10:37	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-19
Date Collected: 03/26/19 10:00
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0091		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 10:37	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 10:37	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 10:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 10:37	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 10:37	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 10:37	5
Vanadium	0.0094		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 10:37	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 10:37	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 10:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: GWC-20
Date Collected: 03/26/19 15:30
Date Received: 03/28/19 08:45

Lab Sample ID: 180-88203-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 09:24	1
Fluoride	0.045	J	0.20	0.026	mg/L			04/01/19 09:24	1
Sulfate	0.45	J	1.0	0.38	mg/L			04/01/19 09:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:00	5
Barium	0.030		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:00	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
Calcium	12		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:00	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:00	5
Chromium	0.0092		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:00	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:00	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:00	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:00	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:00	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:00	5
Vanadium	0.018		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:00	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:00	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:00	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-20

Lab Sample ID: 180-88203-14

Date Collected: 03/26/19 15:30

Matrix: Water

Date Received: 03/28/19 08:45

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	110		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: EB-1 (LF)

Lab Sample ID: 180-88203-15

Date Collected: 03/26/19 15:45

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:39	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:39	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:04	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:04	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:04	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:04	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:04	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:04	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:04	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:04	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:04	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:04	5
Vanadium	0.0025		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:04	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:04	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: EB-2 (LF)

Lab Sample ID: 180-88203-16

Date Collected: 03/26/19 16:45

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: EB-2 (LF)

Lab Sample ID: 180-88203-16

Date Collected: 03/26/19 16:45

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:55	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:08	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:08	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:08	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:08	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:08	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:08	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:08	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:08	5
Vanadium	0.0024	J	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:08	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:08	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: FD-1 (LF)

Lab Sample ID: 180-88203-17

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.0		1.0	0.71	mg/L			04/01/19 13:24	1
Fluoride	0.089	J	0.20	0.026	mg/L			04/01/19 13:24	1
Sulfate	3.0		1.0	0.38	mg/L			04/01/19 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:12	5
Barium	0.048		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:12	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
Calcium	12		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:12	5
Cobalt	0.00055	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:12	5
Chromium	0.0069		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:12	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: FD-1 (LF)

Lab Sample ID: 180-88203-17

Date Collected: 03/26/19 00:00

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:12	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:12	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:12	5
Copper	0.0024	J	0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:12	5
Nickel	0.0024	J	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:12	5
Vanadium	0.010		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:12	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:12	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: FB-1 (LF)

Lab Sample ID: 180-88203-18

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 07:10	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 07:10	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 07:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:16	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:16	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:16	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:16	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:16	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:16	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:16	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:16	5
Vanadium	0.0026		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:16	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:16	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 14:42	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: FB-1 (LF)

Lab Sample ID: 180-88203-18

Date Collected: 03/26/19 11:15

Matrix: Water

Date Received: 03/28/19 08:45

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

Client Sample ID: GWC-5

Lab Sample ID: 180-88290-1

Date Collected: 03/27/19 09:49

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		1.0	0.71	mg/L			04/01/19 10:27	1
Fluoride	0.038	J	0.20	0.026	mg/L			04/01/19 10:27	1
Sulfate	260		5.0	1.9	mg/L			04/01/19 10:43	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:26	5
Barium	0.038		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:26	5
Boron	0.33	F1	0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Calcium	75		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:26	5
Chromium	0.0039		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:26	5
Selenium	0.023		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:26	5
Vanadium	0.0020	J	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:26	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10	10	mg/L			04/01/19 14:05	1

Client Sample ID: GWC-7

Lab Sample ID: 180-88290-2

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.7		1.0	0.71	mg/L			04/01/19 10:59	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 10:59	1
Sulfate	0.51	J	1.0	0.38	mg/L			04/01/19 10:59	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-7

Lab Sample ID: 180-88290-2

Date Collected: 03/27/19 11:05

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:46	5
Barium	0.033		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:46	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
Calcium	14		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:46	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:46	5
Chromium	0.0088		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:46	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:46	5
Vanadium	0.013		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:46	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:46	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/01/19 14:05	1

Client Sample ID: GWC-8A

Lab Sample ID: 180-88290-3

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.6		1.0	0.71	mg/L			04/01/19 11:15	1
Fluoride	0.071	J	0.20	0.026	mg/L			04/01/19 11:15	1
Sulfate	18		1.0	0.38	mg/L			04/01/19 11:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0012	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:50	5
Barium	0.025		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:50	5
Boron	0.16		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
Calcium	47		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:50	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:50	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:50	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-8A

Lab Sample ID: 180-88290-3

Date Collected: 03/27/19 10:20

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0030		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:50	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWC-9

Lab Sample ID: 180-88290-4

Date Collected: 03/27/19 12:29

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.0		1.0	0.71	mg/L			04/01/19 13:40	1
Fluoride	0.066	J	0.20	0.026	mg/L			04/01/19 13:40	1
Sulfate	6.8		1.0	0.38	mg/L			04/01/19 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00062	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:54	5
Barium	0.018		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:54	5
Boron	0.067		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
Calcium	16		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:54	5
Chromium	0.0064		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:54	5
Vanadium	0.019		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:54	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/01/19 14:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-10

Lab Sample ID: 180-88290-5

Date Collected: 03/27/19 11:42

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.4		1.0	0.71	mg/L			04/01/19 13:55	1
Fluoride	0.077	J	0.20	0.026	mg/L			04/01/19 13:55	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:18	5
Barium	0.027		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Calcium	16		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:18	5
Chromium	0.017		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:18	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:18	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWC-11

Lab Sample ID: 180-88290-6

Date Collected: 03/27/19 10:50

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 11:30	1
Fluoride	0.048	J	0.20	0.026	mg/L			04/01/19 11:30	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 11:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:21	5
Barium	0.015		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:21	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Calcium	12		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:21	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:21	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: GWC-11
Date Collected: 03/27/19 10:50
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0070		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:21	5
Vanadium	0.012		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:21	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: FB-2 (LF)

Date Collected: 03/27/19 10:55
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 13:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 13:21	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 13:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:26	5
Vanadium	0.0033		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:26	5
Silver	<0.00011 *		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:26	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Client Sample ID: FB-2 (LF)

Date Collected: 03/27/19 10:55

Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-7

Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: FD-2 (LF)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

Lab Sample ID: 180-88290-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.2		1.0	0.71	mg/L			04/01/19 12:18	1
Fluoride	0.072	J	0.20	0.026	mg/L			04/01/19 12:18	1
Sulfate	17		1.0	0.38	mg/L			04/01/19 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00083	J	0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 22:30	5
Barium	0.026		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 22:30	5
Boron	0.15		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Calcium	47		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 22:30	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 22:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 22:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 22:30	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 22:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 22:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 22:30	5
Vanadium	0.0035		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 22:30	5
Silver	<0.00011	*	0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 22:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 22:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 22:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:33	04/03/19 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/01/19 14:55	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: MB 180-274458/6
Matrix: Water
Analysis Batch: 274458

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 05:41	1

Lab Sample ID: LCS 180-274458/5
Matrix: Water
Analysis Batch: 274458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.8		mg/L		107	90 - 110
Fluoride	1.25	1.34		mg/L		108	90 - 110
Sulfate	25.0	27.1		mg/L		108	90 - 110

Lab Sample ID: 180-88203-1 MS
Matrix: Water
Analysis Batch: 274458

Client Sample ID: GWA-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.5		25.0	30.5		mg/L		100	80 - 120
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120
Sulfate	2.1		25.0	25.7		mg/L		95	80 - 120

Lab Sample ID: 180-88203-1 MSD
Matrix: Water
Analysis Batch: 274458

Client Sample ID: GWA-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.5		25.0	30.4		mg/L		100	80 - 120	0	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	1	20
Sulfate	2.1		25.0	25.7		mg/L		94	80 - 120	0	20

Lab Sample ID: MB 180-274459/6
Matrix: Water
Analysis Batch: 274459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

Lab Sample ID: LCS 180-274459/5
Matrix: Water
Analysis Batch: 274459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: 180-88203-2 MS
Matrix: Water
Analysis Batch: 274459

Client Sample ID: GWA-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120
Fluoride	0.041	J	1.25	1.32		mg/L		102	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

Lab Sample ID: 180-88203-2 MSD
Matrix: Water
Analysis Batch: 274459

Client Sample ID: GWA-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	28.2		mg/L		107	80 - 120	2	20
Fluoride	0.041	J	1.25	1.34		mg/L		104	80 - 120	2	20
Sulfate	<0.38		25.0	26.8		mg/L		107	80 - 120	2	20

Lab Sample ID: 180-88290-6 MS
Matrix: Water
Analysis Batch: 274459

Client Sample ID: GWC-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.5		25.0	27.8		mg/L		105	80 - 120
Fluoride	0.048	J	1.25	1.34		mg/L		104	80 - 120
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120

Lab Sample ID: 180-88290-6 MSD
Matrix: Water
Analysis Batch: 274459

Client Sample ID: GWC-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.5		25.0	27.7		mg/L		105	80 - 120	0	20
Fluoride	0.048	J	1.25	1.33		mg/L		103	80 - 120	1	20
Sulfate	<0.38		25.0	26.2		mg/L		105	80 - 120	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-435790/1-A ^5
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 09:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 09:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 09:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 09:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 09:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 09:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 09:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 09:02	5

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: MB 400-435790/1-A ^5
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 09:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 09:02	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 09:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 09:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 09:02	5

Lab Sample ID: LCS 400-435790/2-A
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 435790

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0492		mg/L		98	80 - 120
Barium	0.0500	0.0476		mg/L		95	80 - 120
Boron	0.100	0.104		mg/L		104	80 - 120
Beryllium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	5.00	4.81		mg/L		96	80 - 120
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Cobalt	0.0500	0.0484		mg/L		97	80 - 120
Chromium	0.0500	0.0470		mg/L		94	80 - 120
Lead	0.0500	0.0477		mg/L		95	80 - 120
Antimony	0.0500	0.0432		mg/L		86	80 - 120
Selenium	0.0500	0.0486		mg/L		97	80 - 120
Thallium	0.0100	0.00975		mg/L		97	80 - 120
Copper	0.0500	0.0489		mg/L		98	80 - 120
Nickel	0.0500	0.0489		mg/L		98	80 - 120
Vanadium	0.0500	0.0481		mg/L		96	80 - 120
Silver	0.0500	0.0459		mg/L		92	80 - 120
Zinc	0.0500	0.0497		mg/L		99	80 - 120

Lab Sample ID: MB 400-435839/1-A ^5
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 21:14	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 21:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 21:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 21:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 21:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 21:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 21:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 21:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 21:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 21:14	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 21:14	5

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: MB 400-435839/1-A ^5
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 21:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 21:14	5

Lab Sample ID: LCS 400-435839/2-A
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 435839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0508		mg/L		102	80 - 120
Barium	0.0500	0.0484		mg/L		97	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0494		mg/L		99	80 - 120
Calcium	5.00	4.79		mg/L		96	80 - 120
Cadmium	0.0500	0.0487		mg/L		97	80 - 120
Cobalt	0.0500	0.0492		mg/L		98	80 - 120
Chromium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.0500	0.0521		mg/L		104	80 - 120
Antimony	0.0500	0.0490		mg/L		98	80 - 120
Selenium	0.0500	0.0470		mg/L		94	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120
Copper	0.0500	0.0503		mg/L		101	80 - 120
Nickel	0.0500	0.0494		mg/L		99	80 - 120
Vanadium	0.0500	0.0484		mg/L		97	80 - 120
Silver	0.0500	0.0612	*	mg/L		122	80 - 120
Zinc	0.0500	0.0487		mg/L		97	80 - 120

Lab Sample ID: 180-88290-1 MS
Matrix: Water
Analysis Batch: 436341

Client Sample ID: GWC-5
Prep Type: Total Recoverable
Prep Batch: 435839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.00046		0.0500	0.0515		mg/L		103	75 - 125
Barium	0.038		0.0500	0.0867		mg/L		98	75 - 125
Boron	0.33	F1	0.100	0.465	F1	mg/L		134	75 - 125
Beryllium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125
Calcium	75		5.00	81.3	4	mg/L		116	75 - 125
Cadmium	<0.00034		0.0500	0.0498		mg/L		100	75 - 125
Cobalt	<0.00040		0.0500	0.0489		mg/L		98	75 - 125
Chromium	0.0039		0.0500	0.0525		mg/L		97	75 - 125
Lead	<0.00035		0.0500	0.0528		mg/L		106	75 - 125
Antimony	<0.0010		0.0500	0.0510		mg/L		102	75 - 125
Selenium	0.023		0.0500	0.0673		mg/L		88	75 - 125
Thallium	<0.000085		0.0100	0.0100		mg/L		100	75 - 125
Copper	<0.0021		0.0500	0.0500		mg/L		100	75 - 125
Nickel	<0.0018		0.0500	0.0509		mg/L		102	75 - 125
Vanadium	0.0020	J	0.0500	0.0504		mg/L		97	75 - 125
Silver	<0.00011	*	0.0500	0.0559		mg/L		112	75 - 125
Zinc	<0.0065		0.0500	0.0540		mg/L		108	75 - 125

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: 180-88290-1 MSD
Matrix: Water
Analysis Batch: 436341

Client Sample ID: GWC-5
Prep Type: Total Recoverable
Prep Batch: 435839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.00046		0.0500	0.0561		mg/L		112	75 - 125	9	20
Barium	0.038		0.0500	0.0992		mg/L		123	75 - 125	14	20
Boron	0.33	F1	0.100	0.456		mg/L		125	75 - 125	2	20
Beryllium	<0.00034		0.0500	0.0488		mg/L		98	75 - 125	2	20
Calcium	75		5.00	94.0	4	mg/L		370	75 - 125	14	20
Cadmium	<0.00034		0.0500	0.0578		mg/L		116	75 - 125	15	20
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125	8	20
Chromium	0.0039		0.0500	0.0581		mg/L		108	75 - 125	10	20
Lead	<0.00035		0.0500	0.0523		mg/L		105	75 - 125	1	20
Antimony	<0.0010		0.0500	0.0576		mg/L		115	75 - 125	12	20
Selenium	0.023		0.0500	0.0668		mg/L		87	75 - 125	1	20
Thallium	<0.000085		0.0100	0.0101		mg/L		101	75 - 125	1	20
Copper	<0.0021		0.0500	0.0549		mg/L		110	75 - 125	9	20
Nickel	<0.0018		0.0500	0.0543		mg/L		109	75 - 125	6	20
Vanadium	0.0020	J	0.0500	0.0555		mg/L		107	75 - 125	10	20
Silver	<0.00011	*	0.0500	0.0603		mg/L		121	75 - 125	7	20
Zinc	<0.0065		0.0500	0.0583		mg/L		117	75 - 125	8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435577/14-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 13:33	04/03/19 12:27	1

Lab Sample ID: LCS 400-435577/15-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00105		mg/L		104	80 - 120

Lab Sample ID: MB 400-435593/14-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 14:16	04/03/19 13:30	1

Lab Sample ID: LCS 400-435593/15-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00106		mg/L		105	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

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

Lab Sample ID: 180-88203-1 MS
Matrix: Water
Analysis Batch: 435757

Client Sample ID: GWA-15
Prep Type: Total/NA
Prep Batch: 435593
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00214		mg/L		106	80 - 120

Lab Sample ID: 180-88203-1 MSD
Matrix: Water
Analysis Batch: 435757

Client Sample ID: GWA-15
Prep Type: Total/NA
Prep Batch: 435593
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00215		mg/L		107	80 - 120	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274370/2
Matrix: Water
Analysis Batch: 274370

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 13:08	1

Lab Sample ID: LCS 180-274370/1
Matrix: Water
Analysis Batch: 274370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	288		mg/L		95	80 - 120

Lab Sample ID: MB 180-274388/2
Matrix: Water
Analysis Batch: 274388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			03/29/19 14:27	1

Lab Sample ID: LCS 180-274388/1
Matrix: Water
Analysis Batch: 274388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	252		mg/L		83	80 - 120

Lab Sample ID: MB 180-274515/2
Matrix: Water
Analysis Batch: 274515

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:05	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
 SDG: Cell1 LF

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-274515/1
Matrix: Water
Analysis Batch: 274515

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	318		mg/L		105	80 - 120

Lab Sample ID: MB 180-274516/2
Matrix: Water
Analysis Batch: 274516

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

Lab Sample ID: LCS 180-274516/1
Matrix: Water
Analysis Batch: 274516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L		104	80 - 120

Lab Sample ID: 180-88290-8 DU
Matrix: Water
Analysis Batch: 274516

Client Sample ID: FD-2 (LF)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	300		302		mg/L		2	10

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

HPLC/IC

Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-5	GWC-2	Total/NA	Water	EPA 300.0 R2.1	
180-88203-7	GWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88203-8	GWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-88203-9	GWC-12	Total/NA	Water	EPA 300.0 R2.1	
180-88203-10	GWC-13	Total/NA	Water	EPA 300.0 R2.1	
180-88203-11	GWC-14	Total/NA	Water	EPA 300.0 R2.1	
180-88203-15	EB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-16	EB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-17	FD-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88203-18	FB-1 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-4	GWC-9	Total/NA	Water	EPA 300.0 R2.1	
180-88290-5	GWC-10	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MS	GWA-15	Total/NA	Water	EPA 300.0 R2.1	
180-88203-1 MSD	GWA-15	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-2	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-3	GWA-17	Total/NA	Water	EPA 300.0 R2.1	
180-88203-4	GWC-1	Total/NA	Water	EPA 300.0 R2.1	
180-88203-6	GWC-3	Total/NA	Water	EPA 300.0 R2.1	
180-88203-12	GWC-18	Total/NA	Water	EPA 300.0 R2.1	
180-88203-13	GWC-19	Total/NA	Water	EPA 300.0 R2.1	
180-88203-14	GWC-20	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-1	GWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88290-2	GWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-88290-3	GWC-8A	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-7	FB-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
180-88290-8	FD-2 (LF)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MS	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88203-2 MSD	GWA-16	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MS	GWC-11	Total/NA	Water	EPA 300.0 R2.1	
180-88290-6 MSD	GWC-11	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 435577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	7470A	
180-88290-2	GWC-7	Total/NA	Water	7470A	
180-88290-3	GWC-8A	Total/NA	Water	7470A	
180-88290-4	GWC-9	Total/NA	Water	7470A	
180-88290-5	GWC-10	Total/NA	Water	7470A	
180-88290-6	GWC-11	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Metals (Continued)

Prep Batch: 435577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 435593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	
180-88203-2	GWA-16	Total/NA	Water	7470A	
180-88203-3	GWA-17	Total/NA	Water	7470A	
180-88203-4	GWC-1	Total/NA	Water	7470A	
180-88203-5	GWC-2	Total/NA	Water	7470A	
180-88203-6	GWC-3	Total/NA	Water	7470A	
180-88203-7	GWC-4	Total/NA	Water	7470A	
180-88203-8	GWC-6	Total/NA	Water	7470A	
180-88203-9	GWC-12	Total/NA	Water	7470A	
180-88203-10	GWC-13	Total/NA	Water	7470A	
180-88203-11	GWC-14	Total/NA	Water	7470A	
180-88203-12	GWC-18	Total/NA	Water	7470A	
180-88203-13	GWC-19	Total/NA	Water	7470A	
180-88203-14	GWC-20	Total/NA	Water	7470A	
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	

Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	7470A	435593
180-88203-2	GWA-16	Total/NA	Water	7470A	435593
180-88203-3	GWA-17	Total/NA	Water	7470A	435593
180-88203-4	GWC-1	Total/NA	Water	7470A	435593
180-88203-5	GWC-2	Total/NA	Water	7470A	435593
180-88203-6	GWC-3	Total/NA	Water	7470A	435593
180-88203-7	GWC-4	Total/NA	Water	7470A	435593
180-88203-8	GWC-6	Total/NA	Water	7470A	435593
180-88203-9	GWC-12	Total/NA	Water	7470A	435593
180-88203-10	GWC-13	Total/NA	Water	7470A	435593
180-88203-11	GWC-14	Total/NA	Water	7470A	435593
180-88203-12	GWC-18	Total/NA	Water	7470A	435593
180-88203-13	GWC-19	Total/NA	Water	7470A	435593
180-88203-14	GWC-20	Total/NA	Water	7470A	435593
180-88203-15	EB-1 (LF)	Total/NA	Water	7470A	435593
180-88203-16	EB-2 (LF)	Total/NA	Water	7470A	435593
180-88203-17	FD-1 (LF)	Total/NA	Water	7470A	435593
180-88203-18	FB-1 (LF)	Total/NA	Water	7470A	435593
180-88290-1	GWC-5	Total/NA	Water	7470A	435577

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
 SDG: Cell1 LF

Metals (Continued)

Analysis Batch: 435757 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-2	GWC-7	Total/NA	Water	7470A	435577
180-88290-3	GWC-8A	Total/NA	Water	7470A	435577
180-88290-4	GWC-9	Total/NA	Water	7470A	435577
180-88290-5	GWC-10	Total/NA	Water	7470A	435577
180-88290-6	GWC-11	Total/NA	Water	7470A	435577
180-88290-7	FB-2 (LF)	Total/NA	Water	7470A	435577
180-88290-8	FD-2 (LF)	Total/NA	Water	7470A	435577
MB 400-435577/14-A	Method Blank	Total/NA	Water	7470A	435577
MB 400-435593/14-A	Method Blank	Total/NA	Water	7470A	435593
LCS 400-435577/15-A	Lab Control Sample	Total/NA	Water	7470A	435577
LCS 400-435593/15-A	Lab Control Sample	Total/NA	Water	7470A	435593
180-88203-1 MS	GWA-15	Total/NA	Water	7470A	435593
180-88203-1 MSD	GWA-15	Total/NA	Water	7470A	435593

Prep Batch: 435790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	3005A	
180-88203-2	GWA-16	Total Recoverable	Water	3005A	
180-88203-3	GWA-17	Total Recoverable	Water	3005A	
180-88203-4	GWC-1	Total Recoverable	Water	3005A	
180-88203-5	GWC-2	Total Recoverable	Water	3005A	
180-88203-6	GWC-3	Total Recoverable	Water	3005A	
180-88203-7	GWC-4	Total Recoverable	Water	3005A	
180-88203-8	GWC-6	Total Recoverable	Water	3005A	
180-88203-9	GWC-12	Total Recoverable	Water	3005A	
180-88203-10	GWC-13	Total Recoverable	Water	3005A	
180-88203-11	GWC-14	Total Recoverable	Water	3005A	
180-88203-12	GWC-18	Total Recoverable	Water	3005A	
180-88203-13	GWC-19	Total Recoverable	Water	3005A	
180-88203-14	GWC-20	Total Recoverable	Water	3005A	
180-88203-15	EB-1 (LF)	Total Recoverable	Water	3005A	
180-88203-16	EB-2 (LF)	Total Recoverable	Water	3005A	
180-88203-17	FD-1 (LF)	Total Recoverable	Water	3005A	
180-88203-18	FB-1 (LF)	Total Recoverable	Water	3005A	
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 435839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	3005A	
180-88290-2	GWC-7	Total Recoverable	Water	3005A	
180-88290-3	GWC-8A	Total Recoverable	Water	3005A	
180-88290-4	GWC-9	Total Recoverable	Water	3005A	
180-88290-5	GWC-10	Total Recoverable	Water	3005A	
180-88290-6	GWC-11	Total Recoverable	Water	3005A	
180-88290-7	FB-2 (LF)	Total Recoverable	Water	3005A	
180-88290-8	FD-2 (LF)	Total Recoverable	Water	3005A	
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-88290-1 MS	GWC-5	Total Recoverable	Water	3005A	
180-88290-1 MSD	GWC-5	Total Recoverable	Water	3005A	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

Metals

Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total Recoverable	Water	6020	435790
180-88203-2	GWA-16	Total Recoverable	Water	6020	435790
180-88203-3	GWA-17	Total Recoverable	Water	6020	435790
180-88203-4	GWC-1	Total Recoverable	Water	6020	435790
180-88203-5	GWC-2	Total Recoverable	Water	6020	435790
180-88203-6	GWC-3	Total Recoverable	Water	6020	435790
180-88203-7	GWC-4	Total Recoverable	Water	6020	435790
180-88203-8	GWC-6	Total Recoverable	Water	6020	435790
180-88203-9	GWC-12	Total Recoverable	Water	6020	435790
180-88203-10	GWC-13	Total Recoverable	Water	6020	435790
180-88203-11	GWC-14	Total Recoverable	Water	6020	435790
180-88203-12	GWC-18	Total Recoverable	Water	6020	435790
180-88203-13	GWC-19	Total Recoverable	Water	6020	435790
180-88203-14	GWC-20	Total Recoverable	Water	6020	435790
180-88203-15	EB-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-16	EB-2 (LF)	Total Recoverable	Water	6020	435790
180-88203-17	FD-1 (LF)	Total Recoverable	Water	6020	435790
180-88203-18	FB-1 (LF)	Total Recoverable	Water	6020	435790
MB 400-435790/1-A ^5	Method Blank	Total Recoverable	Water	6020	435790
LCS 400-435790/2-A	Lab Control Sample	Total Recoverable	Water	6020	435790

Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total Recoverable	Water	6020	435839
180-88290-2	GWC-7	Total Recoverable	Water	6020	435839
180-88290-3	GWC-8A	Total Recoverable	Water	6020	435839
180-88290-4	GWC-9	Total Recoverable	Water	6020	435839
180-88290-5	GWC-10	Total Recoverable	Water	6020	435839
180-88290-6	GWC-11	Total Recoverable	Water	6020	435839
180-88290-7	FB-2 (LF)	Total Recoverable	Water	6020	435839
180-88290-8	FD-2 (LF)	Total Recoverable	Water	6020	435839
MB 400-435839/1-A ^5	Method Blank	Total Recoverable	Water	6020	435839
LCS 400-435839/2-A	Lab Control Sample	Total Recoverable	Water	6020	435839
180-88290-1 MS	GWC-5	Total Recoverable	Water	6020	435839
180-88290-1 MSD	GWC-5	Total Recoverable	Water	6020	435839

General Chemistry

Analysis Batch: 274370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-1	GWA-15	Total/NA	Water	SM 2540C	
180-88203-2	GWA-16	Total/NA	Water	SM 2540C	
180-88203-3	GWA-17	Total/NA	Water	SM 2540C	
180-88203-4	GWC-1	Total/NA	Water	SM 2540C	
180-88203-5	GWC-2	Total/NA	Water	SM 2540C	
180-88203-6	GWC-3	Total/NA	Water	SM 2540C	
180-88203-7	GWC-4	Total/NA	Water	SM 2540C	
180-88203-8	GWC-6	Total/NA	Water	SM 2540C	
180-88203-9	GWC-12	Total/NA	Water	SM 2540C	
180-88203-10	GWC-13	Total/NA	Water	SM 2540C	
180-88203-11	GWC-14	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88203-1
SDG: Cell1 LF

General Chemistry (Continued)

Analysis Batch: 274370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-12	GWC-18	Total/NA	Water	SM 2540C	
MB 180-274370/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274370/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 274388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88203-13	GWC-19	Total/NA	Water	SM 2540C	
180-88203-14	GWC-20	Total/NA	Water	SM 2540C	
180-88203-15	EB-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-16	EB-2 (LF)	Total/NA	Water	SM 2540C	
180-88203-17	FD-1 (LF)	Total/NA	Water	SM 2540C	
180-88203-18	FB-1 (LF)	Total/NA	Water	SM 2540C	
MB 180-274388/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274388/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 274515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-1	GWC-5	Total/NA	Water	SM 2540C	
180-88290-2	GWC-7	Total/NA	Water	SM 2540C	
MB 180-274515/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274515/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88290-3	GWC-8A	Total/NA	Water	SM 2540C	
180-88290-4	GWC-9	Total/NA	Water	SM 2540C	
180-88290-5	GWC-10	Total/NA	Water	SM 2540C	
180-88290-6	GWC-11	Total/NA	Water	SM 2540C	
180-88290-7	FB-2 (LF)	Total/NA	Water	SM 2540C	
180-88290-8	FD-2 (LF)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-88290-8 DU	FD-2 (LF)	Total/NA	Water	SM 2540C	

TestAmerica Pittsburgh

301 Alpha Drive
 RIDC Park
 Pittsburgh, PA 15238-2907
 phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact	Project Manager: Dawn Prell	Site Contact: Karim Minkara	Date: 3/27/19	COC No:
Joju Abraham	Tel/Fax: 248-536-5445	Lab Contact: Veronica Bortot	Carrier:	1 of 2 COCs
Southern Company	Analysis Turnaround Time			Sampler:
241 Ralph McGill Blvd SE B10185	<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS	Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zn: 50 Cl, F, SO4, TDS		For Lab Use Only:
Atlanta, GA 30308	TAT if different from Below ___ 3-5 days ___			Walk-in Client:
JAbraham@southernco.com	<input type="checkbox"/> 2 weeks			Lab Sampling:
Project Name: CCR - Plant Scherer Cell 1	<input type="checkbox"/> 1 week			Job / SDG No.:
Site: Georgia	<input type="checkbox"/> 2 days			
P O # 18019884	<input type="checkbox"/> 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zn: 50	Cl, F, SO4, TDS
GWA-15	3/26/2019	1045	G	Water	2			X	X
GWA-16	3/26/2019	1120	G	Water	2			X	X
GWA-17	3/26/2019	1025	G	Water	2			X	X
GWC-1	3/26/2019	1210	G	Water	2			X	X
GWC-2	3/26/2019	1305	G	Water	2			X	X
GWC-3	3/26/2019	1640	G	Water	2			X	X
GWC-4	3/26/2019	1430	G	Water	2			X	X
GWC-6	3/26/2019	1505	G	Water	2			X	X
GWC-12	3/26/2019	1550	G	Water	2			X	X
GWC-13	3/26/2019	1500	G	Water	2			X	X
GWC-14	3/26/2019	1355	G	Water	2			X	X
GWC-18	3/26/2019	1150	G	Water	2			X	X

Page 50 of 61



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Kary Miller</i>	Company: <i>Golden</i>	Date/Time: <i>3-27-19 10:00</i>	Received by: <i>Elaine Cook</i>	Company: <i>Courier Now</i>
Relinquished by: <i>Richie</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 10:00</i>	Received by: <i>Elaine Cook</i>	Company: <i>Golden</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 16:10</i>	Received in Laboratory by: <i>Dedrick Watson</i>	Company: <i>TAPIH</i>

4/5/2019

895



TestAmerica Pittsburgh

301 Alpha Drive
 RIDC Park
 Pittsburgh, PA 15238-2907
 phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com	Project Manager: Dawn Prell Tel/Fax: 248-536-5445	Site Contact: Karim Minkara Lab Contact: Veronica Bortot	Date: 3/27/19 Carrier:	COC No: 2 of 2 COCs
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below ___ 3-5 days ___ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD, P / N 6020, 7470A, As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zr, Sb Cl, F, SO4, TDS	Sampler: For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No.:	
Project Name: CCR - Plant Scherer Site: Cell 1 P O # 18019884			Sample Specific Notes:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD, P / N	6020, 7470A, As, B, Ba, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Se, Ag, Th, Va, Zr, Sb	Cl, F, SO4, TDS
GWC-19	3/26/2019	1000	G	Water	2		X	X	
GWC-20	3/26/2019	1530	G	Water	2		X	X	
EB-1 (LF)	3/26/2019	1545	G	Water	2		X	X	
EB-2 (LF)	3/26/2019	1645	G	Water	2		X	X	
FD-1 (LF)	3/26/2019	--	G	Water	2		X	X	
FB-1 (LF)	3/26/2019	1115	G	Water	2		X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4	1	

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.:
Relinquished by: <i>[Signature]</i>	Company: <i>Golder</i>	Date/Time: <i>3/27/19 8:00</i>	Received by: <i>Plaine Cook</i>
Relinquished by: <i>Plaine Cook</i>	Company: <i>Golder</i>	Date/Time: <i>3/27/19 10:00</i>	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/27/19 16:10</i>	Received in Laboratory by: <i>Deanne Watson</i>

Page 51 of 61

4/15/2019

8:15



TestAmerica Pittsburgh

301 Alpha Drive
 RIDC Park
 Pittsburgh, PA 15238-2907
 phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com Project Name: CCR - Plant Scherer Cell 1 Site: Georgia P O # 18019884	Project Manager: Dawn Prell Tel/Fax: 248-536-5445 Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below ___ 3-5 days ___ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	Site Contact: Karim Minkara Lab Contact: Veronica Bortot Date: 3/28/19 Carrier:	COC No: 1 of 2 COCs Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:
---	---	--	---

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS
GWC-5	3/27/2019	949	G	Water	2		X	X	
GWC-7	3/27/2019	1105	G	Water	2		X	X	
GWC-8A	3/27/2019	1020	G	Water	2		X	X	
GWC-9	3/27/2019	1229	G	Water	2		X	X	
GWC-10	3/27/2019	1142	G	Water	2		X	X	
GWC-11	3/27/2019	1050	G	Water	2		X	X	
FB-2 (LF)	3/27/2019	1055	G	Water	2		X	X	
FD-2 (LF)	3/27/2019	-	G	Water	2		X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4	1	



Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.:
Relinquished by: <i>Chris Tizwell</i>	Company: <i>Cold</i>	Date/Time: <i>7-7-11 7:58</i>	Received by: <i>Elaine Cook</i>
Relinquished by: <i>Elaine Cook</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 10:10</i>	Received by: <i>TA</i>
Relinquished by: <i>TA</i>	Company: <i>TA</i>	Date/Time: <i>3/28/19 16:10</i>	Received in Laboratory by: <i>TA</i>
			Company: <i>Courier Now</i>
			Date/Time: <i>3/28/19 8:00</i>
			Company: <i>TA</i>
			Date/Time: <i>3-28-19 10:10</i>
			Company: <i>TA</i>
			Date/Time: <i>3-28-19 8:50</i>

Page 52 of 61
4/15/2019



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 2/16/19
ACTING: SU
CAD: 859116 P-FF 12

ORIGIN ID: MULA (678) 966-9981
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

BILL RECIPIENT

10 **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



2 of 2
MPS# 4651 0080 9905
Mstr# 4651 0080 9890
THU - 28 MAR 3:00P
STANDARD OVERNIGHT
15238
PA-US PIT



2.1 K=10 #10

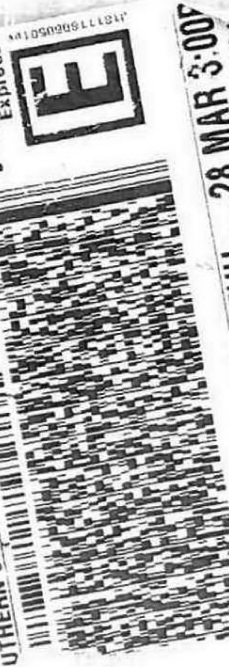
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ORIGIN ID: MULA
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

180-88203 Waybill
SAMPLE RECEIVING
PITTSBURGH
1 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



1 of 2
MPS# 4651 0080 9890
Mstr# 4651 0080 9890
THU - 28 MAR 3:00P
STANDARD OVERNIGHT
15238
PA-US PIT



Thermometer ID
Unrecorded temp
37 °C
10
Initials
CF

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

edEx Express Package US Airbill

FedEx Tracking Number 8116 7091 8535

Form No. 0200

4 Express Package Servi

Next Business Day

- FedEx First Overnight
- FedEx Priority Overnight
- FedEx Standard Overnight

5 Packaging

- FedEx Envelope*

6 Special Handling and Deli

- Saturday Delivery
- No Signature Required

Does this shipment contain hazardous materials?

- No
- Yes

7 Payment Bill to:

- Sender
- Recipient

Total Packages Total Weight

Our liability is limited to USD\$100 per package.

Item: Dims 3/15 • Part #187002 • FedEx • Per...

ENVIRONMENTAL TESTING 592545

RT-97 1 16:00 A 8535 03:29

FedEx 2Day A.M. Second business morning. Saturday Delivery NOT available.

FedEx 2Day Second business afternoon. Third business day. Saturday Delivery NOT available.

Direct Signature Indirect Signature

Dry Ice Cargo Aircraft Only

Third Party Credit Card Cash/Check

644

Sample Central
TA Pittsburgh
301 Alpha Dr.
RIDC Park
Pittsburgh PA



FRI - 29 MAR AA
STANDARD OVERNIGHT

7091 8535
GCA 15238 PA-US PIT

corrected temp thermometer ID 7.9 °C
Initials TD

WI-SR-001 effective 11/8/18
MGEA 553C1/46D3/8C6A

Barcode with number 180-88290 06298-081

1
2
3
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12
13

FedEx Package
Express US Airbill
FedEx Tracking Number **8116 7091 8524**

1 From
Date

Sender's Name
Phone

Company

Address

City State ZIP

2 Your Internal Billing Reference

3 To
Recipient's Name
Company
Address
City State ZIP

Address
City State ZIP

Address
City State ZIP

Address
City State ZIP

4 Express Package Service

Next Business Day

FedEx First Overnight

FedEx Priority Overnight

FedEx Standard Overnight

5 Packaging

6 Special Handling and Delivery Signature

Signature Required

Does this shipment contain dangerous goods?

7 Payment Bill to:

Sender

Recipient

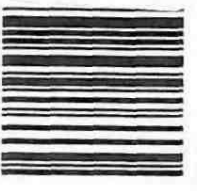
Total Packages

Total Weight

FedEx
TRK# 8116 7091 8524
FRI - 29 MAR AA
STANDARD OVERNIGHT
15238
PA-US
PIT

Uncorrected temp
Thermometer ID

CF 0 Initials JS



PT-VI-SR-001 effective 11/8/18
FID 429154 28MAR19 MCEA 553CI/4503/0C8A

TestAmerica Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



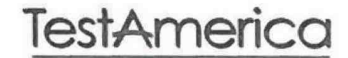
Client Information (Sub Contract Lab)					Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:													
Client Contact: Shipping/Receiving					Phone:		Bortot, Veronica		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 1 of 2											
Company: TestAmerica Laboratories, Inc.					Accreditations Required (See note):					Job #: 180-88203-1														
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:					Due Date Requested: 4/3/2019		Analysis Requested					Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:												
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer					TAT Requested (days):												Total Number of containers							
Project #: 18019884					SOW#:		Field Filtered Sample (Yes or No)					Special Instructions/Note:												
Sample Identification - Client ID (Lab ID)					Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		7470A/7470A_Prep		6020/3005A (MOD) Appendix III & IV		Total Number of containers		Special Instructions/Note:	
GWA-15 (180-88203-1)					3/26/19		10:45 Eastern		Water		Water		X		X						1			
GWA-16 (180-88203-2)					3/26/19		11:20 Eastern		Water		Water		X		X						1			
GWA-17 (180-88203-3)					3/26/19		10:25 Eastern		Water		Water		X		X						1			
GWC-1 (180-88203-4)					3/26/19		12:10 Eastern		Water		Water		X		X						1			
GWC-2 (180-88203-5)					3/26/19		13:05 Eastern		Water		Water		X		X						1			
GWC-3 (180-88203-6)					3/26/19		16:40 Eastern		Water		Water		X		X						1			
GWC-4 (180-88203-7)					3/26/19		14:30 Eastern		Water		Water		X		X						1			
GWC-6 (180-88203-8)					3/26/19		15:05 Eastern		Water		Water		X		X						1			
GWC-12 (180-88203-9)					3/26/19		15:50 Eastern		Water		Water		X		X						1			
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>																								
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																
Unconfirmed								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2		Special Instructions/QC Requirements:																
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																
Relinquished by:				Date/Time: 4/1/19 1700		Company: TAPEN		Received by:				Date/Time: 4.2.19 0859		Company: TAPEN										
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:										
Relinquished by:				Date/Time:		Company:		Received by:				Date/Time:		Company:										
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°, 13.5°, 13.2° R7																				



TestAmerica Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)			Sampler:		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-358762.2		
Client Contact: Shipping/Receiving			Phone:		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 2 of 2		
Company: TestAmerica Laboratories, Inc.			Due Date Requested: 4/3/2019		Accreditations Required (See note):		Job #: 180-88203-1		Preservation Codes:		
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:			TAT Requested (days):		Analysis Requested		Total Number of containers		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)		
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer			Project #: 18019884 SSOW#:						Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)
Sample Identification - Client ID (Lab ID)			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		
							Preservation Code:				
GWC-13 (180-88203-10)			3/26/19		15:00 Eastern		Water		X X		
GWC-14 (180-88203-11)			3/26/19		13:55 Eastern		Water		X X		
GWC-18 (180-88203-12)			3/26/19		11:50 Eastern		Water		X X		
GWC-19 (180-88203-13)			3/26/19		10:00 Eastern		Water		X X		
GWC-20 (180-88203-14)			3/26/19		15:30 Eastern		Water		X X		
EB-1 (LF) (180-88203-15)			3/26/19		15:45 Eastern		Water		X X		
EB-2 (LF) (180-88203-16)			3/26/19		16:45 Eastern		Water		X X		
FD-1 (LF) (180-88203-17)			3/26/19		Eastern		Water		X X		
FB-1 (LF) (180-88203-18)			3/26/19		11:15 Eastern		Water		X X		
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2					
Special Instructions/QC Requirements:											
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:			
Relinquished by:				Date/Time: 4/1/19 17:00		Company: TA PTH		Received by:		Date/Time: 4-2-19 0859	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c 127							

Ver: 01/16/2019



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

Login Number: 88203

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

Login Number: 88203

List Number: 2

Creator: Brown, Nathan

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/02/19 01:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

Login Number: 88290

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88203-1

SDG Number: Cell1 LF

Login Number: 88290

List Number: 2

Creator: Brown, Nathan

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/02/19 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL RESULTS

PAC ASH CELL

ANALYTICAL REPORT

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

Laboratory Job ID: 180-88291-1

Laboratory Sample Delivery Group: PAC Ash
Client Project/Site: CCR - Plant Scherer

For:

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

Attn: Joju Abraham



Authorized for release by:
4/15/2019 10:15:26 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	16
QC Sample Results	30
QC Association Summary	36
Chain of Custody	40
Receipt Checklists	49

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Job ID: 180-88291-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-88291-1

Comments

No additional comments.

Receipt

The samples were received on 3/29/2019 8:50 AM and 3/30/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 3.1° C, 3.5° C, 3.9° C, 4.0° C and 4.8° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-48 (180-88291-4). The container labels list a sample collection time of 13:50, while the COC lists 13:55. The time on the COC was used.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): GWA-46 (180-88291-7). The container labels lists a sample collection time of 15:00, while the COC lists 14:55. The time on the COC was used.

Anions

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

Metals

Method(s) 6020: The post digestion spike % recovery associated with batch 400-435940 was outside of control limits. The following sample is impacted: (180-88200-C-1-B PDS ^5).

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-435792 and analytical batch 400-435940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Qualifiers

HPLC/IC

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

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
 SDG: PAC Ash

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
 SDG: PAC Ash

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88291-1	GWA-45	Water	03/27/19 11:30	03/29/19 08:50
180-88291-2	GWA-49	Water	03/27/19 12:35	03/29/19 08:50
180-88291-3	GWA-21	Water	03/27/19 13:33	03/29/19 08:50
180-88291-4	GWA-48	Water	03/27/19 13:55	03/29/19 08:50
180-88291-5	GWA-47	Water	03/27/19 14:05	03/29/19 08:50
180-88291-6	GWA-22	Water	03/27/19 14:29	03/29/19 08:50
180-88291-7	GWA-46	Water	03/27/19 14:55	03/29/19 08:50
180-88291-8	GWC-51	Water	03/27/19 15:29	03/29/19 08:50
180-88291-9	FB-1 (PA)	Water	03/27/19 13:30	03/29/19 08:50
180-88291-10	FD-1 (PA)	Water	03/27/19 00:00	03/29/19 08:50
180-88291-11	EB-1 (PA)	Water	03/27/19 15:15	03/29/19 08:50
180-88348-1	GWC-50	Water	03/28/19 09:40	03/30/19 10:00
180-88348-2	GWC-53	Water	03/28/19 09:48	03/30/19 10:00
180-88348-3	GWC-29	Water	03/28/19 10:30	03/30/19 10:00
180-88348-4	GWC-52	Water	03/28/19 10:43	03/30/19 10:00
180-88348-5	FB-2 (PA)	Water	03/28/19 09:45	03/30/19 10:00
180-88348-6	FD-2 (PA)	Water	03/28/19 00:00	03/30/19 10:00
180-88348-7	EB-2 (PA)	Water	03/28/19 11:00	03/30/19 10:00

Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-45

Lab Sample ID: 180-88291-1

Date Collected: 03/27/19 11:30

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 12:34	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:51	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWA-49

Lab Sample ID: 180-88291-2

Date Collected: 03/27/19 12:35

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:37	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:54	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 14:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWA-21

Lab Sample ID: 180-88291-3

Date Collected: 03/27/19 13:33

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 13:53	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:58	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-48

Lab Sample ID: 180-88291-4

Date Collected: 03/27/19 13:55

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:09	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:02	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWA-47

Lab Sample ID: 180-88291-5

Date Collected: 03/27/19 14:05

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:24	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:06	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWA-22

Lab Sample ID: 180-88291-6

Date Collected: 03/27/19 14:29

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:10	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-46

Lab Sample ID: 180-88291-7

Date Collected: 03/27/19 14:55

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274459	04/01/19 14:56	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWC-51

Lab Sample ID: 180-88291-8

Date Collected: 03/27/19 15:29

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:46	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: FB-1 (PA)

Lab Sample ID: 180-88291-9

Date Collected: 03/27/19 13:30

Matrix: Water

Date Received: 03/29/19 08:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:14	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

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Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FD-1 (PA)

Date Collected: 03/27/19 00:00

Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 16:31	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 12:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: EB-1 (PA)

Date Collected: 03/27/19 15:15

Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHIC2100A		1			274458	04/01/19 15:30	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435792	04/03/19 18:46	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			435940	04/04/19 11:31	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435616	04/02/19 16:46	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			435757	04/03/19 15:20	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274516	04/01/19 14:55	TAM	TAL PIT

Client Sample ID: GWC-50

Date Collected: 03/28/19 09:40

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:28	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:42	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWC-53

Date Collected: 03/28/19 09:48

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 06:40	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:46	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Client Sample ID: GWC-29

Date Collected: 03/28/19 10:30

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 07:44	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 19:50	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Client Sample ID: GWC-52

Date Collected: 03/28/19 10:43

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:51	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:14	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FB-2 (PA)

Date Collected: 03/28/19 09:45

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:19	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:18	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Client Sample ID: FD-2 (PA)

Date Collected: 03/28/19 00:00

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 10:07	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:22	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274717	04/03/19 11:13	AVS	TAL PIT

Client Sample ID: EB-2 (PA)

Date Collected: 03/28/19 11:00

Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			274532	04/02/19 09:35	MJH	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	435838	04/04/19 10:15	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436341	04/04/19 20:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	435663	04/03/19 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436068	04/05/19 14:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274732	04/03/19 12:07	AVS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Lab: TAL PIT

Batch Type: Analysis

AVS = Abbey Smith

MJH = Matthew Hartman

TAM = Tessa Mastalski

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-45
Date Collected: 03/27/19 11:30
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.6		1.0	0.71	mg/L			04/01/19 12:34	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 12:34	1
Sulfate	140		1.0	0.38	mg/L			04/01/19 12:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:51	5
Barium	0.057		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:51	5
Boron	0.74		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
Calcium	39		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:51	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:51	5
Cobalt	0.00083	J	0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:51	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:51	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:51	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:51	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:51	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:51	5
Vanadium	0.0023	J B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:51	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:51	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:51	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	290		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-49
Date Collected: 03/27/19 12:35
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.9		1.0	0.71	mg/L			04/01/19 13:37	1
Fluoride	0.037	J	0.20	0.026	mg/L			04/01/19 13:37	1
Sulfate	0.56	J	1.0	0.38	mg/L			04/01/19 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:54	5
Barium	0.019		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:54	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
Calcium	15		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:54	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:54	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-49
Date Collected: 03/27/19 12:35
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0056		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:54	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:54	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:54	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:54	5
Vanadium	0.021	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:54	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:54	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:54	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	120		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-21
Date Collected: 03/27/19 13:33
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			04/01/19 13:53	1
Fluoride	0.035	J	0.20	0.026	mg/L			04/01/19 13:53	1
Sulfate	0.81	J	1.0	0.38	mg/L			04/01/19 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:58	5
Barium	0.024		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:58	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
Calcium	9.5		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:58	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:58	5
Chromium	0.0030		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:58	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:58	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:58	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:58	5
Vanadium	0.0072	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:58	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:58	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:58	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:58	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-21
Date Collected: 03/27/19 13:33
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	98		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-48
Date Collected: 03/27/19 13:55
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.5		1.0	0.71	mg/L			04/01/19 14:09	1
Fluoride	0.040	J	0.20	0.026	mg/L			04/01/19 14:09	1
Sulfate	1.6		1.0	0.38	mg/L			04/01/19 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:02	5
Barium	0.013		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:02	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Calcium	13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:02	5
Chromium	0.0051		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:02	5
Vanadium	0.022	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:02	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-47
Date Collected: 03/27/19 14:05
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.2		1.0	0.71	mg/L			04/01/19 14:24	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-47
Date Collected: 03/27/19 14:05
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.041	J	0.20	0.026	mg/L			04/01/19 14:24	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:06	5
Barium	0.026		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:06	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
Calcium	11		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:06	5
Chromium	0.0081		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:06	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:06	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:06	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:06	5
Vanadium	0.012	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:06	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:06	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:06	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	94		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-22
Date Collected: 03/27/19 14:29
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.0		1.0	0.71	mg/L			04/01/19 14:40	1
Fluoride	0.036	J	0.20	0.026	mg/L			04/01/19 14:40	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:10	5
Barium	0.022		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:10	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
Calcium	7.1		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:10	5
Chromium	0.0078		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:10	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-22
Date Collected: 03/27/19 14:29
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:10	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:10	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:10	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:10	5
Vanadium	0.0071	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:10	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:10	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:10	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWA-46
Date Collected: 03/27/19 14:55
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.7		1.0	0.71	mg/L			04/01/19 14:56	1
Fluoride	0.033	J	0.20	0.026	mg/L			04/01/19 14:56	1
Sulfate	0.52	J	1.0	0.38	mg/L			04/01/19 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:14	5
Barium	0.021		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:14	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
Calcium	6.1		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:14	5
Chromium	0.0048		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:14	5
Vanadium	0.0072	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:09	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWA-46
Date Collected: 03/27/19 14:55
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	66		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: GWC-51
Date Collected: 03/27/19 15:29
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.0		1.0	0.71	mg/L			04/01/19 15:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:46	1
Sulfate	2.7		1.0	0.38	mg/L			04/01/19 15:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:18	5
Barium	0.011		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:18	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Calcium	7.0		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:18	5
Chromium	0.0044		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:18	5
Nickel	0.0024	J	0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:18	5
Vanadium	0.0087	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	76		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: FB-1 (PA)
Date Collected: 03/27/19 13:30
Date Received: 03/29/19 08:50

Lab Sample ID: 180-88291-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 15:14	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 15:14	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 15:14	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FB-1 (PA)

Lab Sample ID: 180-88291-9

Date Collected: 03/27/19 13:30

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:22	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:22	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:22	5
Vanadium	0.0036	B	0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 12:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 12:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 12:22	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 12:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 15:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

Client Sample ID: FD-1 (PA)

Lab Sample ID: 180-88291-10

Date Collected: 03/27/19 00:00

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.9		1.0	0.71	mg/L			04/01/19 16:31	1
Fluoride	0.050	J	0.20	0.026	mg/L			04/01/19 16:31	1
Sulfate	1.1		1.0	0.38	mg/L			04/01/19 16:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 12:26	5
Barium	0.024		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 12:26	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 12:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
Calcium	9.6		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 12:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 12:26	5
Chromium	0.0028		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 12:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 12:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 12:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 12:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 12:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 12:26	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FD-1 (PA)

Lab Sample ID: 180-88291-10

Date Collected: 03/27/19 00:00

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	0.0066	B	0.0025	0.0014	mg/L	-	04/03/19 18:46	04/04/19 12:26	5
Silver	<0.00011		0.0013	0.00011	mg/L	-	04/03/19 18:46	04/04/19 12:26	5
Copper	<0.0021		0.0025	0.0021	mg/L	-	04/03/19 18:46	04/04/19 12:26	5
Zinc	<0.0065		0.020	0.0065	mg/L	-	04/03/19 18:46	04/04/19 12:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L	-	04/02/19 16:46	04/03/19 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	96		10	10	mg/L	-		04/01/19 14:55	1

Client Sample ID: EB-1 (PA)

Lab Sample ID: 180-88291-11

Date Collected: 03/27/19 15:15

Matrix: Water

Date Received: 03/29/19 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L	-		04/01/19 15:30	1
Fluoride	<0.026		0.20	0.026	mg/L	-		04/01/19 15:30	1
Sulfate	<0.38		1.0	0.38	mg/L	-		04/01/19 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Barium	<0.00049		0.0025	0.00049	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Boron	<0.021		0.050	0.021	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Calcium	<0.13		0.25	0.13	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Cobalt	<0.00040		0.0025	0.00040	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Lead	<0.00035		0.0013	0.00035	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Antimony	<0.0010		0.0025	0.0010	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Selenium	<0.00071		0.0013	0.00071	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Nickel	<0.0018		0.0025	0.0018	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Vanadium	<0.0014		0.0025	0.0014	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Silver	<0.00011		0.0013	0.00011	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Copper	<0.0021		0.0025	0.0021	mg/L	-	04/03/19 18:46	04/04/19 11:31	5
Zinc	<0.0065		0.020	0.0065	mg/L	-	04/03/19 18:46	04/04/19 11:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L	-	04/02/19 16:46	04/03/19 15:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L	-		04/01/19 14:55	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWC-50
Date Collected: 03/28/19 09:40
Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.8		1.0	0.71	mg/L			04/02/19 07:28	1
Fluoride	0.042	J	0.20	0.026	mg/L			04/02/19 07:28	1
Sulfate	0.38	J	1.0	0.38	mg/L			04/02/19 07:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:42	5
Barium	0.012		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:42	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Calcium	7.2		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:42	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:42	5
Chromium	0.0043		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:42	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:42	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:42	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:42	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:42	5
Vanadium	0.0053		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:42	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:42	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:42	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	65		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: GWC-53
Date Collected: 03/28/19 09:48
Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/02/19 06:40	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 06:40	1
Sulfate	170		1.0	0.38	mg/L			04/02/19 06:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:46	5
Barium	0.045		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:46	5
Boron	0.97		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Calcium	18		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:46	5
Cobalt	0.011		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:46	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWC-53
Date Collected: 03/28/19 09:48
Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:46	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:46	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:46	5
Nickel	0.0069		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:46	5
Vanadium	0.0041		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:46	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:46	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:46	5
Zinc	0.013	J	0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: GWC-29
Date Collected: 03/28/19 10:30
Date Received: 03/30/19 10:00

Lab Sample ID: 180-88348-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.8		1.0	0.71	mg/L			04/02/19 07:44	1
Fluoride	0.033	J	0.20	0.026	mg/L			04/02/19 07:44	1
Sulfate	3.2		1.0	0.38	mg/L			04/02/19 07:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 19:50	5
Barium	0.017		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 19:50	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
Calcium	11		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 19:50	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 19:50	5
Chromium	0.0012	J	0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 19:50	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 19:50	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 19:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 19:50	5
Nickel	0.0038		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 19:50	5
Vanadium	0.0079		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 19:50	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 19:50	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 19:50	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 19:50	5

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: GWC-29

Lab Sample ID: 180-88348-3

Date Collected: 03/28/19 10:30

Matrix: Water

Date Received: 03/30/19 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: GWC-52

Lab Sample ID: 180-88348-4

Date Collected: 03/28/19 10:43

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.5		1.0	0.71	mg/L			04/02/19 09:51	1
Fluoride	0.039	J	0.20	0.026	mg/L			04/02/19 09:51	1
Sulfate	29		1.0	0.38	mg/L			04/02/19 09:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:14	5
Barium	0.014		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:14	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Calcium	15		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:14	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:14	5
Chromium	0.019		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:14	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:14	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:14	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:14	5
Vanadium	0.010		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:14	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:14	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:14	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: FB-2 (PA)

Lab Sample ID: 180-88348-5

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.7		1.0	0.71	mg/L			04/02/19 09:19	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FB-2 (PA)

Lab Sample ID: 180-88348-5

Date Collected: 03/28/19 09:45

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:19	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:18	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:18	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:18	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:18	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:18	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:18	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:18	5
Vanadium	0.0024	J	0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:18	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:18	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:18	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: FD-2 (PA)

Lab Sample ID: 180-88348-6

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11		1.0	0.71	mg/L			04/02/19 10:07	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 10:07	1
Sulfate	160		1.0	0.38	mg/L			04/02/19 10:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:22	5
Barium	0.050		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:22	5
Boron	0.99		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
Calcium	20		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:22	5
Cobalt	0.012		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:22	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: FD-2 (PA)

Lab Sample ID: 180-88348-6

Date Collected: 03/28/19 00:00

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:22	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:22	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:22	5
Nickel	0.0074		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:22	5
Vanadium	0.0029		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:22	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:22	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:22	5
Zinc	0.014	J	0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	280		10	10	mg/L			04/03/19 11:13	1

Client Sample ID: EB-2 (PA)

Lab Sample ID: 180-88348-7

Date Collected: 03/28/19 11:00

Matrix: Water

Date Received: 03/30/19 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 09:35	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 09:35	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 09:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 20:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 20:26	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 20:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 20:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 20:26	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 20:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 20:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 20:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 20:26	5
Vanadium	0.0034		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 20:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 20:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 20:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 20:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:19	04/05/19 14:16	1

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Client Sample ID: EB-2 (PA)

Lab Sample ID: 180-88348-7

Date Collected: 03/28/19 11:00

Matrix: Water

Date Received: 03/30/19 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

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

Lab Sample ID: MB 180-274458/41
Matrix: Water
Analysis Batch: 274458

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 14:59	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 14:59	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 14:59	1

Lab Sample ID: LCS 180-274458/38
Matrix: Water
Analysis Batch: 274458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.3		mg/L		101	90 - 110
Fluoride	1.25	1.25		mg/L		100	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

Lab Sample ID: 180-88291-8 MS
Matrix: Water
Analysis Batch: 274458

Client Sample ID: GWC-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.0		25.0	31.2		mg/L		97	80 - 120
Fluoride	<0.026		1.25	1.21		mg/L		97	80 - 120
Sulfate	2.7		25.0	24.3		mg/L		86	80 - 120

Lab Sample ID: 180-88291-8 MSD
Matrix: Water
Analysis Batch: 274458

Client Sample ID: GWC-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.0		25.0	31.0		mg/L		96	80 - 120	0	20
Fluoride	<0.026		1.25	1.18		mg/L		94	80 - 120	3	20
Sulfate	2.7		25.0	24.2		mg/L		86	80 - 120	0	20

Lab Sample ID: MB 180-274459/6
Matrix: Water
Analysis Batch: 274459

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/01/19 06:18	1
Fluoride	<0.026		0.20	0.026	mg/L			04/01/19 06:18	1
Sulfate	<0.38		1.0	0.38	mg/L			04/01/19 06:18	1

Lab Sample ID: LCS 180-274459/5
Matrix: Water
Analysis Batch: 274459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.23		mg/L		98	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

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

Lab Sample ID: MB 180-274532/6
Matrix: Water
Analysis Batch: 274532

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/02/19 05:41	1
Fluoride	<0.026		0.20	0.026	mg/L			04/02/19 05:41	1
Sulfate	<0.38		1.0	0.38	mg/L			04/02/19 05:41	1

Lab Sample ID: LCS 180-274532/5
Matrix: Water
Analysis Batch: 274532

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.6		mg/L		102	90 - 110
Fluoride	1.25	1.24		mg/L		99	90 - 110
Sulfate	25.0	25.2		mg/L		101	90 - 110

Lab Sample ID: 180-88348-2 MS
Matrix: Water
Analysis Batch: 274532

Client Sample ID: GWC-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		25.0	38.1		mg/L		106	80 - 120
Fluoride	<0.026		1.25	1.30		mg/L		104	80 - 120
Sulfate	170		25.0	193	4	mg/L		94	80 - 120

Lab Sample ID: 180-88348-2 MSD
Matrix: Water
Analysis Batch: 274532

Client Sample ID: GWC-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		25.0	35.5		mg/L		96	80 - 120	7	20
Fluoride	<0.026		1.25	1.20		mg/L		96	80 - 120	7	20
Sulfate	170		25.0	178	4	mg/L		35	80 - 120	8	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-435792/1-A ^5
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 11:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 11:19	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 11:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 11:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 11:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 11:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 11:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 11:19	5

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

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

Lab Sample ID: MB 400-435792/1-A ^5
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435792

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 11:19	5
Vanadium	0.00311		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 11:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 11:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 11:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 11:19	5

Lab Sample ID: MB 400-435792/1-A ^5
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435792

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/03/19 18:46	04/04/19 17:15	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/03/19 18:46	04/04/19 17:15	5
Boron	<0.021		0.050	0.021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Calcium	<0.13		0.25	0.13	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/03/19 18:46	04/04/19 17:15	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/03/19 18:46	04/04/19 17:15	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/03/19 18:46	04/04/19 17:15	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/03/19 18:46	04/04/19 17:15	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/03/19 18:46	04/04/19 17:15	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/03/19 18:46	04/04/19 17:15	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/03/19 18:46	04/04/19 17:15	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/03/19 18:46	04/04/19 17:15	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/03/19 18:46	04/04/19 17:15	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/03/19 18:46	04/04/19 17:15	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/03/19 18:46	04/04/19 17:15	5

Lab Sample ID: LCS 400-435792/2-A
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 435792

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	0.0500	0.0521		mg/L		104	80 - 120
Barium	0.0500	0.0508		mg/L		102	80 - 120
Boron	0.100	0.105		mg/L		105	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	5.00	4.89		mg/L		98	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120
Cobalt	0.0500	0.0504		mg/L		101	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0478		mg/L		96	80 - 120
Antimony	0.0500	0.0445		mg/L		89	80 - 120
Selenium	0.0500	0.0491		mg/L		98	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120
Nickel	0.0500	0.0504		mg/L		101	80 - 120
Vanadium	0.0500	0.0496		mg/L		99	80 - 120
Silver	0.0500	0.0507		mg/L		101	80 - 120

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

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

Lab Sample ID: LCS 400-435792/2-A
Matrix: Water
Analysis Batch: 435940

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 435792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.0500	0.0510		mg/L		102	80 - 120
Zinc	0.0500	0.0516		mg/L		103	80 - 120

Lab Sample ID: MB 400-435838/1-A ^5
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 435838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/04/19 10:15	04/04/19 17:19	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/04/19 10:15	04/04/19 17:19	5
Boron	<0.021		0.050	0.021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Calcium	<0.13		0.25	0.13	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/04/19 10:15	04/04/19 17:19	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/04/19 10:15	04/04/19 17:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/04/19 10:15	04/04/19 17:19	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/04/19 10:15	04/04/19 17:19	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/04/19 10:15	04/04/19 17:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/04/19 10:15	04/04/19 17:19	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/04/19 10:15	04/04/19 17:19	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/04/19 10:15	04/04/19 17:19	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/04/19 10:15	04/04/19 17:19	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/04/19 10:15	04/04/19 17:19	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/04/19 10:15	04/04/19 17:19	5

Lab Sample ID: LCS 400-435838/2-A
Matrix: Water
Analysis Batch: 436341

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 435838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0500	0.0506		mg/L		101	80 - 120
Barium	0.0500	0.0482		mg/L		96	80 - 120
Boron	0.100	0.0983		mg/L		98	80 - 120
Beryllium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	5.00	4.77		mg/L		95	80 - 120
Cadmium	0.0500	0.0486		mg/L		97	80 - 120
Cobalt	0.0500	0.0489		mg/L		98	80 - 120
Chromium	0.0500	0.0492		mg/L		98	80 - 120
Lead	0.0500	0.0532		mg/L		106	80 - 120
Antimony	0.0500	0.0516		mg/L		103	80 - 120
Selenium	0.0500	0.0466		mg/L		93	80 - 120
Thallium	0.0100	0.00992		mg/L		99	80 - 120
Nickel	0.0500	0.0498		mg/L		100	80 - 120
Vanadium	0.0500	0.0491		mg/L		98	80 - 120
Silver	0.0500	0.0544		mg/L		109	80 - 120
Copper	0.0500	0.0497		mg/L		99	80 - 120
Zinc	0.0500	0.0475		mg/L		95	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-435616/14-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/02/19 16:46	04/03/19 14:44	1

Lab Sample ID: LCS 400-435616/15-A
Matrix: Water
Analysis Batch: 435757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 180-88291-1 MS
Matrix: Water
Analysis Batch: 435757

Client Sample ID: GWA-45
Prep Type: Total/NA
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00218		mg/L		108	80 - 120

Lab Sample ID: 180-88291-1 MSD
Matrix: Water
Analysis Batch: 435757

Client Sample ID: GWA-45
Prep Type: Total/NA
Prep Batch: 435616

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00213		mg/L		106	80 - 120	2	20

Lab Sample ID: MB 400-435663/14-A
Matrix: Water
Analysis Batch: 436068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 435663

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/03/19 09:18	04/05/19 12:58	1

Lab Sample ID: LCS 400-435663/15-A
Matrix: Water
Analysis Batch: 436068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 435663

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274516/2
Matrix: Water
Analysis Batch: 274516

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/01/19 14:55	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
 SDG: PAC Ash

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-274516/1
Matrix: Water
Analysis Batch: 274516

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	316		mg/L		104	80 - 120

Lab Sample ID: MB 180-274717/2
Matrix: Water
Analysis Batch: 274717

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 11:13	1

Lab Sample ID: LCS 180-274717/1
Matrix: Water
Analysis Batch: 274717

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	246		mg/L		81	80 - 120

Lab Sample ID: MB 180-274732/2
Matrix: Water
Analysis Batch: 274732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/03/19 12:07	1

Lab Sample ID: LCS 180-274732/1
Matrix: Water
Analysis Batch: 274732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	304	278		mg/L		91	80 - 120

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

HPLC/IC

Analysis Batch: 274458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-8	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-9	FB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-10	FD-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88291-11	EB-1 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274458/41	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274458/38	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MS	GWC-51	Total/NA	Water	EPA 300.0 R2.1	
180-88291-8 MSD	GWC-51	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 274459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	EPA 300.0 R2.1	
180-88291-2	GWA-49	Total/NA	Water	EPA 300.0 R2.1	
180-88291-3	GWA-21	Total/NA	Water	EPA 300.0 R2.1	
180-88291-4	GWA-48	Total/NA	Water	EPA 300.0 R2.1	
180-88291-5	GWA-47	Total/NA	Water	EPA 300.0 R2.1	
180-88291-6	GWA-22	Total/NA	Water	EPA 300.0 R2.1	
180-88291-7	GWA-46	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274459/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274459/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	

Analysis Batch: 274532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-3	GWC-29	Total/NA	Water	EPA 300.0 R2.1	
180-88348-4	GWC-52	Total/NA	Water	EPA 300.0 R2.1	
180-88348-5	FB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-6	FD-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
180-88348-7	EB-2 (PA)	Total/NA	Water	EPA 300.0 R2.1	
MB 180-274532/6	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-274532/5	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MS	GWC-53	Total/NA	Water	EPA 300.0 R2.1	
180-88348-2 MSD	GWC-53	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 435616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	
180-88291-2	GWA-49	Total/NA	Water	7470A	
180-88291-3	GWA-21	Total/NA	Water	7470A	
180-88291-4	GWA-48	Total/NA	Water	7470A	
180-88291-5	GWA-47	Total/NA	Water	7470A	
180-88291-6	GWA-22	Total/NA	Water	7470A	
180-88291-7	GWA-46	Total/NA	Water	7470A	
180-88291-8	GWC-51	Total/NA	Water	7470A	
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
 SDG: PAC Ash

Metals (Continued)

Prep Batch: 435616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	

Prep Batch: 435663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	
180-88348-2	GWC-53	Total/NA	Water	7470A	
180-88348-3	GWC-29	Total/NA	Water	7470A	
180-88348-4	GWC-52	Total/NA	Water	7470A	
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 435757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	7470A	435616
180-88291-2	GWA-49	Total/NA	Water	7470A	435616
180-88291-3	GWA-21	Total/NA	Water	7470A	435616
180-88291-4	GWA-48	Total/NA	Water	7470A	435616
180-88291-5	GWA-47	Total/NA	Water	7470A	435616
180-88291-6	GWA-22	Total/NA	Water	7470A	435616
180-88291-7	GWA-46	Total/NA	Water	7470A	435616
180-88291-8	GWC-51	Total/NA	Water	7470A	435616
180-88291-9	FB-1 (PA)	Total/NA	Water	7470A	435616
180-88291-10	FD-1 (PA)	Total/NA	Water	7470A	435616
180-88291-11	EB-1 (PA)	Total/NA	Water	7470A	435616
MB 400-435616/14-A	Method Blank	Total/NA	Water	7470A	435616
LCS 400-435616/15-A	Lab Control Sample	Total/NA	Water	7470A	435616
180-88291-1 MS	GWA-45	Total/NA	Water	7470A	435616
180-88291-1 MSD	GWA-45	Total/NA	Water	7470A	435616

Prep Batch: 435792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	3005A	
180-88291-2	GWA-49	Total Recoverable	Water	3005A	
180-88291-3	GWA-21	Total Recoverable	Water	3005A	
180-88291-4	GWA-48	Total Recoverable	Water	3005A	
180-88291-5	GWA-47	Total Recoverable	Water	3005A	
180-88291-6	GWA-22	Total Recoverable	Water	3005A	
180-88291-7	GWA-46	Total Recoverable	Water	3005A	
180-88291-8	GWC-51	Total Recoverable	Water	3005A	
180-88291-9	FB-1 (PA)	Total Recoverable	Water	3005A	
180-88291-10	FD-1 (PA)	Total Recoverable	Water	3005A	
180-88291-11	EB-1 (PA)	Total Recoverable	Water	3005A	
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

Metals

Prep Batch: 435838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	3005A	
180-88348-2	GWC-53	Total Recoverable	Water	3005A	
180-88348-3	GWC-29	Total Recoverable	Water	3005A	
180-88348-4	GWC-52	Total Recoverable	Water	3005A	
180-88348-5	FB-2 (PA)	Total Recoverable	Water	3005A	
180-88348-6	FD-2 (PA)	Total Recoverable	Water	3005A	
180-88348-7	EB-2 (PA)	Total Recoverable	Water	3005A	
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 435940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total Recoverable	Water	6020	435792
180-88291-2	GWA-49	Total Recoverable	Water	6020	435792
180-88291-3	GWA-21	Total Recoverable	Water	6020	435792
180-88291-4	GWA-48	Total Recoverable	Water	6020	435792
180-88291-5	GWA-47	Total Recoverable	Water	6020	435792
180-88291-6	GWA-22	Total Recoverable	Water	6020	435792
180-88291-7	GWA-46	Total Recoverable	Water	6020	435792
180-88291-8	GWC-51	Total Recoverable	Water	6020	435792
180-88291-9	FB-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-10	FD-1 (PA)	Total Recoverable	Water	6020	435792
180-88291-11	EB-1 (PA)	Total Recoverable	Water	6020	435792
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
LCS 400-435792/2-A	Lab Control Sample	Total Recoverable	Water	6020	435792

Analysis Batch: 436068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	7470A	435663
180-88348-2	GWC-53	Total/NA	Water	7470A	435663
180-88348-3	GWC-29	Total/NA	Water	7470A	435663
180-88348-4	GWC-52	Total/NA	Water	7470A	435663
180-88348-5	FB-2 (PA)	Total/NA	Water	7470A	435663
180-88348-6	FD-2 (PA)	Total/NA	Water	7470A	435663
180-88348-7	EB-2 (PA)	Total/NA	Water	7470A	435663
MB 400-435663/14-A	Method Blank	Total/NA	Water	7470A	435663
LCS 400-435663/15-A	Lab Control Sample	Total/NA	Water	7470A	435663

Analysis Batch: 436341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total Recoverable	Water	6020	435838
180-88348-2	GWC-53	Total Recoverable	Water	6020	435838
180-88348-3	GWC-29	Total Recoverable	Water	6020	435838
180-88348-4	GWC-52	Total Recoverable	Water	6020	435838
180-88348-5	FB-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-6	FD-2 (PA)	Total Recoverable	Water	6020	435838
180-88348-7	EB-2 (PA)	Total Recoverable	Water	6020	435838
MB 400-435792/1-A ^5	Method Blank	Total Recoverable	Water	6020	435792
MB 400-435838/1-A ^5	Method Blank	Total Recoverable	Water	6020	435838
LCS 400-435838/2-A	Lab Control Sample	Total Recoverable	Water	6020	435838

Eurofins TestAmerica, Pittsburgh

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88291-1
SDG: PAC Ash

General Chemistry

Analysis Batch: 274516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88291-1	GWA-45	Total/NA	Water	SM 2540C	
180-88291-2	GWA-49	Total/NA	Water	SM 2540C	
180-88291-3	GWA-21	Total/NA	Water	SM 2540C	
180-88291-4	GWA-48	Total/NA	Water	SM 2540C	
180-88291-5	GWA-47	Total/NA	Water	SM 2540C	
180-88291-6	GWA-22	Total/NA	Water	SM 2540C	
180-88291-7	GWA-46	Total/NA	Water	SM 2540C	
180-88291-8	GWC-51	Total/NA	Water	SM 2540C	
180-88291-9	FB-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-10	FD-1 (PA)	Total/NA	Water	SM 2540C	
180-88291-11	EB-1 (PA)	Total/NA	Water	SM 2540C	
MB 180-274516/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274516/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 274717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-1	GWC-50	Total/NA	Water	SM 2540C	
180-88348-2	GWC-53	Total/NA	Water	SM 2540C	
180-88348-3	GWC-29	Total/NA	Water	SM 2540C	
180-88348-4	GWC-52	Total/NA	Water	SM 2540C	
180-88348-5	FB-2 (PA)	Total/NA	Water	SM 2540C	
180-88348-6	FD-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274717/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274717/1	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 274732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88348-7	EB-2 (PA)	Total/NA	Water	SM 2540C	
MB 180-274732/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274732/1	Lab Control Sample	Total/NA	Water	SM 2540C	

TestAmerica Pittsburgh

301 Alpha Drive
 RIDC Park
 Pittsburgh, PA 15238-2907
 phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact		Project Manager: Dawn Prell		Site Contact: Karim Minkara		Date: 3/28/19		COC No:	
Joju Abraham		Tel/Fax: 248-536-5445		Lab Contact: Veronica Bortot		Carrier:		2 of 2 COCs	
Southern Company		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Tl, V, Zn Cl, F, SO4, TDS		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS	
241 Ralph McGill Blvd SE B10185		TAT if different from Below ___ 3-5 days ___							
Atlanta, GA 30308		<input type="checkbox"/> 2 weeks							
JAbraham@southernco.com		<input type="checkbox"/> 1 week							
Project Name: CCR - Plant Scherer PAC Ash Cell		<input type="checkbox"/> 2 days							
Site: Georgia		<input type="checkbox"/> 1 day							
P O # 18019884									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered	MS/MSD	As	Ba	B	Be	Ca	Cd	Cr	Co	Cu	Pb	Hg	Ni	Sb	Se	Ag	Tl	V	Zn	Cl	F	SO4	TDS
GWA-45	3/27/2019	11:30	G	Water	2			X	X																				
GWA-49	3/27/2019	12:35	G	Water	2			X	X																				
GWA-21	3/27/2019	13:33	G	Water	2			X	X																				
GWA-48	3/27/2019	13:55	G	Water	2			X	X																				
GWA-47	3/27/2019	14:05	G	Water	2			X	X																				
GWA-22	3/27/2019	14:29	G	Water	2			X	X																				
GWA-46	3/27/2019	14:55	G	Water	2			X	X																				
GWC-51	3/27/2019	15:49	G	Water	2			X	X																				
FB-1 (PA)	3/27/2019	13:30	G	Water	2			X	X																				
FD-1 (PA)	3/27/2019	--	G	Water	2			X	X																				
EB-1 (PA)	3/27/2019	15:15	G	Water	2			X	X																				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: Yes No

Custody Seal No.: _____

Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by: Chris Towel Company: Calder Date/Time: 3-28-19/7:59 Received by: Elaine Cook Company: COWI-REMCO Date/Time: 3-28-19/8:00

Relinquished by: Elaine Cook Company: Calder Date/Time: 3/28/19/10:00 Received by: [Signature] Company: PA Date/Time: 10:00

Relinquished by: [Signature] Company: TA Date/Time: 3/28/19/10:00 Received in Laboratory by: [Signature] Company: JADITH Date/Time: 3-29-19/8:00



Page 40 of 52



TestAmerica Pittsburgh

301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238-2907
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact Joju Abraham Southern Company 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 JAbraham@southernco.com	Project Manager: Dawn Prell Tel/Fax: 248-536-5445	Site Contact: Karim Minkara Lab Contact: Veronica Bortot	Date: 3/29/19 Carrier:	COC No: 1 of 1 COCs
Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below 3-5 days <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6020, 7470A: As, Ba, B, Be, Ca, Cd, Cr, Co, Cu, Pb, Hg, Ni, Sb, Se, Ag, Th, Va, Zn	Cl, F, SO4, TDS	Sample Specific Notes:
GWC-50	3/28/2019	9:40	G	Water	2		X	X		
GWC-53	3/28/2019	9:48	G	Water	2		X	X		
GWC-29	3/28/2019	10:30	G	Water	2		X	X		
GWC-52	3/28/2019	10:43	G	Water	2		X	X		
FB-2(PA)	3/28/2019	09:45	G	Water	2		X	X		
FD-2 (PA)	3/28/2019	--	G	Water	2		X	X		
EB-2 (PA)	3/28/2019	11:00	G	Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		
				Water	2		X	X		



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____	Corr'd: _____	Therm ID No.:
Relinquished by: <i>Chris Tidwell</i>	Company: <i>Coolder</i>	Date/Time: <i>3-29-19 @H10</i>	Received by: <i>[Signature]</i>	Company: <i>TGA</i>
Relinquished by: <i>[Signature]</i>	Company: <i>TA</i>	Date/Time: <i>3/29/19</i>	Received by: <i>[Signature]</i>	Company: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Company: _____	Date/Time: _____	Received in Laboratory by: _____	Company: _____

Page 41 of 52

4/15/2019



Package
US Airbill

FedEx Tracking Number 8116 7091 8535

Q200

Express Package Service

FedEx First Overnight

FedEx Standard Overnight

FedEx 2Day

FedEx 2Day A.M.

FedEx Express Saver

FedEx Home Delivery

FedEx International Priority

FedEx International Economy

FedEx International First

FedEx International Priority

FedEx International Economy

FedEx International First

FedEx International Priority

FedEx International Economy

FedEx International First

FedEx International Priority

FedEx International Economy

FedEx International First

FedEx International Priority

FedEx International Economy

392645
TESTING
RT 97
FZ
15:00
8535
03-29

301 Alpha Dr
RIDC Park
Pittsburgh

180-88291 Waybill

FRI - 29 MAR AA
STANDARD OVERNIGHT

091-8535

GCA

15238
PA-US
PIT

corrected temp
ermometer ID
= 0 Initials TJ

WI-SR-001 effective 11/8/18

MGEA 553C1/45D3/0C8

FedEx Package Express US Airbill

From TRK# 8116 7091 8524

Form ID No. 0200

1 From Date Sender's Name Company Address City State ZIP

Sender's Name: [Redacted]
Company: [Redacted]
Address: [Redacted]
City: [Redacted] State: [Redacted] ZIP: [Redacted]

4 Express Package Service

Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight

2 Your Internal Billing Reference

3 To Recipient's Name Company Address We cannot deliver to PO boxes or PO ZIP codes. Address Use this line to list HOLD location address or for combination of your shipping address. City State ZIP

Recipient's Name: Sample Control
Company: TA Pittsburgh
Address: 301 Alpha Dr.
City: RIDE Park
State: PA ZIP: 15238

6 Special Handling and Delivery Signature Saturday Delivery Signature Signature required Direct Signature required Signature required for delivery. Does this shipment contain dangerous goods? One box must be checked. Yes No As per attached Shipper's Declaration. Shipper's Declaration not required. Restrictions apply for dangerous goods - see the current FedEx Service Guide.

7 Payment Bill to: Sender Recipient Third Party Total Packages Total Weight lbs.

FedEx TRK# 8116 7091 8524

FRI - 29 MAR AA STANDARD OVERNIGHT

NA AGCA

Uncorrected temp Thermometer ID

CF 0 Initials

4.0 / 10 °C



15238 PA-US PIT

PT-WI-SR-001 effective 11/8/18
429154 28MAR19 M5EA 553C1/4603/OCBA

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merica

FR IN ENVIRONMENTAL TESTING



ORIGIN ID:MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
3500 MCDONOUGH DRIVE
MORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 29MAR19
ACTWGT: 59.20 LB
CAD: 859116/CAFE3211
BILL RECIPIENT

TO: **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE
PITTSBURGH PA 15238
(412) 963-7068
REF: **GOLDER**



1 of 3
TRK# 0201 4651 0081 0450
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

VO AGCA

Uncorrected temp
Thermometer ID

15238
PA-US PIT

CF 0 Initials TS

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



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TestAmv
THE LEADER IN ENVIRONMENTAL TESTING

03:30

12:00

5

RT 639

ORIGIN ID: MULA (578) 966-9991

SHIP DATE: 29MAR19
ACTWTG: 53.20 LB
CAD: 859116/CAFE3211

BILL RECEIPT

ORIGIN ID: MULA (578) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30054
UNITED STATES US

TO SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE

PITTSBURGH PA 15238

(412) 983-7058
REF: GOLDER



SATURDAY 12:00P
PRIORITY OVERNIGHT

MPS# 4651 0081 0460
Mistr# 4651 0681 0450

XO AGCA

15238
PA-US
PIT

Uncorrected temp 3.1 °C
Thermometer ID 10

CF 0 Initials B

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

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- 10
- 11
- 12
- 13

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 29MAR19
ACTWGT: 53.20 LB
CAD: 859116/CAFE3211

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TA PITTSBURGH
301 ALPHA DRIVE

PITTSBURGH PA 15238
(412) 963-7068
REF: **GOLDER**



FedEx Express **E**

3 of 3

MPS# 4651 0081 0471
0263
Mstr# 4651 0081 0450

0201

XO AGCA

SATURDAY 12:00P
PRIORITY OVERNIGHT

15238
PA-US PIT

Uncorrected temp 4.8 °C
Thermometer ID 10
CF 0 Initials JS

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

TestAmerica Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)				Sampler: Bortot, Veronica	Lab PM: Bortot, Veronica	Carrier Tracking No(s):	COC No: 180-358762.1		
Client Contact: Shipping/Receiving				Phone:	E-Mail: veronica.bortot@testamericainc.com	State of Origin: Florida	Page: Page 1 of 2		
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):			Job #: 180-88291-1		
Address: 3355 McLemore Drive, City: Pensacola		Due Date Requested: 4/4/2019		Analysis Requested				Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
State, Zip: FL, 32514		TAT Requested (days):							
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		PO #:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_PreP 6020/3005A (MOD) Appendix III & IV				Total Number of containers	
Email:		WO #:							
Project Name: CCR - Plant Scherer		Project #: 18019884		Special Instructions/Note:					
Site: CCR Plant Scherer		SSOW#:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 7470A/7470A_PreP 6020/3005A (MOD) Appendix III & IV		Total Number of containers	Special Instructions/Note:
Preservation Code:									
GWA-45 (180-88291-1)	3/27/19	11:30 Eastern	Water	X	X				1
GWA-49 (180-88291-2)	3/27/19	12:35 Eastern	Water	X	X				1
GWA-21 (180-88291-3)	3/27/19	13:33 Eastern	Water	X	X				1
GWA-48 (180-88291-4)	3/27/19	13:55 Eastern	Water	X	X				1
GWA-47 (180-88291-5)	3/27/19	14:05 Eastern	Water	X	X				1
GWA-22 (180-88291-6)	3/27/19	14:29 Eastern	Water	X	X				1
GWA-46 (180-88291-7)	3/27/19	14:55 Eastern	Water	X	X				1
GWC-51 (180-88291-8)	3/27/19	15:29 Eastern	Water	X	X				1
FB-1 (PA) (180-88291-9)	3/27/19	13:30 Eastern	Water	X	X				1
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:			Date:	Time:	Method of Shipment:				
Relinquished by: <i>[Signature]</i>			Date/Time: 4/1/19 1700	Company: <i>[Signature]</i>	Received by: <i>[Signature]</i>			Date/Time: 4.2.19 0859	Company: <i>[Signature]</i>
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:
Relinquished by:			Date/Time:	Company:	Received by:			Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 12.5°c, 13.5°c, 13.2°c				

Page 47 of 52

4/15/2019



TestAmerica Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)				Sampler:		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 180-358762.2			
Client Contact: Shipping/Receiving				Phone:		E-Mail: veronica.bortot@testamericainc.com		State of Origin: Florida		Page: Page 2 of 2			
Company: TestAmerica Laboratories, Inc.				Accreditations Required (See note):				Job #: 180-88291-1					
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/4/2019		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
TAT Requested (days):		PO #:		WO #:									
Project Name: CCR - Plant Scherer				Project #: 18019884		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Site: CCR Plant Scherer				SSOW#:		7470A/7470A_Pre		6020/3005A (MOD) Appendix III & IV					
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A_Pre	6020/3005A (MOD) Appendix III & IV	Total Number of containers	Special Instructions/Note:	
FD-1 (PA) (180-88291-10)			3/27/19	Eastern		Water		X	X		1		
EB-1 (PA) (180-88291-11)			3/27/19	15:15 Eastern		Water		X	X		1		
<p>Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I</p>													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: <i>[Signature]</i>				Date/Time: 4/11/19 1700		Company: TA PAH		Received by: <i>[Signature]</i>		Date/Time: 4.2.19 0859		Company: TAPEN	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 12.5°C, 13.5°C, 13.2°C							

Page 48 of 52

4/15/2019



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

Login Number: 88291

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

Login Number: 88291

List Number: 2

Creator: Brown, Nathan

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/02/19 12:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

Login Number: 88348

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Say, Thomas C

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88291-1

SDG Number: PAC Ash

Login Number: 88348

List Number: 2

Creator: Brown, Nathan

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/02/19 12:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	12.5°C, 13.5°C, 13.2°C IR7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL RESULTS
SURFACE WATER

ANALYTICAL REPORT

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

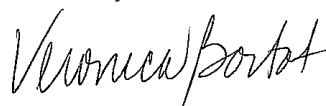
Laboratory Job ID: 180-88433-1

Laboratory Sample Delivery Group: Surface Water
Client Project/Site: CCR - Plant Scherer

For:

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

Attn: Joju Abraham



Authorized for release by:
4/29/2019 6:54:29 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

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

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

PA Lab ID: 02-00416



Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	13
QC Sample Results	19
QC Association Summary	24
Chain of Custody	27
Receipt Checklists	30

Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Job ID: 180-88433-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

**Job Narrative
180-88433-1**

Comments

No additional comments.

Receipt

The samples were received on 4/3/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.1° C.

Receipt Exceptions

Limited sample volume was received; TDS will be analyzed first with minimal volume so that all the analysis can be run.: SWC-5 (180-88433-4).

GC Semi VOA

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

Metals

Method(s) 200.8, 6020: The post digestion spike % recovery associated with batch 400-436932 was outside of control limits.

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

General Chemistry

Method(s) 9014, SM 4500 CN E: After the cyanide run had completed, it was noticed that the second point in the curve had surpassed the plus/minus 20% recovery threshold (-21.76). The results are reported as samples were analyzed on the last day of holding time . SWA-2 (180-88433-1), SWA-3 (180-88433-2) and SWC-7 (180-88433-6)

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Qualifiers

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
 SDG: Surface Water

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
 SDG: Surface Water

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88433-1	SWA-2	Water	04/01/19 15:33	04/03/19 09:40
180-88433-2	SWA-3	Water	04/01/19 15:15	04/03/19 09:40
180-88433-3	SWC-4	Water	04/01/19 14:24	04/03/19 09:40
180-88433-4	SWC-5	Water	04/01/19 14:10	04/03/19 09:40
180-88433-5	SWC-6	Water	04/01/19 14:47	04/03/19 09:40
180-88433-6	SWC-7	Water	04/01/19 14:37	04/03/19 09:40
180-88433-7	SWC-8	Water	04/01/19 15:05	04/03/19 09:40



Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Method	Method Description	Protocol	Laboratory
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
EPA 410.4	COD	MCAWW	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 4500 H+ B	pH	SM	TAL PIT
SM 4500CN E	Total Cyanide	SM	TAL PIT
SM 5310C	Total Organic Carbon	SM	TAL PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
410.4	COD	MCAWW	TAL PIT
7470A	Preparation, Mercury	SW846	TAL PEN
SM 4500 CN C	Cyanide, Distillation	SM	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWA-2
Date Collected: 04/01/19 15:33
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:14	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:17	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:03	JAP	TAL PEN
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10S		1			276193	04/18/19 14:51	JAS	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275344	04/10/19 08:57	JMS	TAL PIT
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL1		1			275848	04/15/19 16:47	JAS	TAL PIT
Total/NA	Analysis	SM 5310C Instrument ID: TOC1030		1			275163	04/09/19 00:46	CLL	TAL PIT

Client Sample ID: SWA-3
Date Collected: 04/01/19 15:15
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:30	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:21	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:05	JAP	TAL PEN
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4 Instrument ID: GENESYS10S		1			276193	04/18/19 14:52	JAS	TAL PIT
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E Instrument ID: SEAL1		1			275848	04/15/19 16:52	JAS	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWA-3
Date Collected: 04/01/19 15:15
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310C		1			275163	04/09/19 01:04	CLL	TAL PIT

Client Sample ID: SWC-4
Date Collected: 04/01/19 14:24
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 13:46	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:26	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT

Client Sample ID: SWC-5
Date Collected: 04/01/19 14:10
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 14:02	CMR	TAL PIT
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020 Instrument ID: ICPMS7700		5			436932	04/12/19 11:30	DRE	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A Instrument ID: HYDRA AA2		1			436767	04/11/19 11:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Total/NA	Analysis	SM 4500 H+ B Instrument ID: NOEQUIP		1			275345	04/10/19 09:01	JMS	TAL PIT

Client Sample ID: SWC-6
Date Collected: 04/01/19 14:47
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1 Instrument ID: CHICS2100B		1			275670	04/13/19 14:17	CMR	TAL PIT

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-6

Lab Sample ID: 180-88433-5

Date Collected: 04/01/19 14:47

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:33	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:15	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: SWC-7

Lab Sample ID: 180-88433-6

Date Collected: 04/01/19 14:37

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			275670	04/13/19 14:33	CMR	TAL PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:37	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:19	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Prep	410.4			1 mL	1 mL	276185	04/18/19 11:17	JAS	TAL PIT
Total/NA	Analysis	EPA 410.4		1			276193	04/18/19 14:53	JAS	TAL PIT
Instrument ID: GENESYS10S										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Prep	SM 4500 CN C			50 mL	50 mL	275771	04/15/19 12:59	JAS	TAL PIT
Total/NA	Analysis	SM 4500CN E		1			275848	04/15/19 16:54	JAS	TAL PIT
Instrument ID: SEAL1										
Total/NA	Analysis	SM 5310C		1			275163	04/09/19 01:22	CLL	TAL PIT
Instrument ID: TOC1030										

Client Sample ID: SWC-8

Lab Sample ID: 180-88433-7

Date Collected: 04/01/19 15:05

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 300.0 R2.1		1			275670	04/13/19 15:21	CMR	TAL PIT
Instrument ID: CHICS2100B										

Eurofins TestAmerica, Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-8
Date Collected: 04/01/19 15:05
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436825	04/11/19 17:30	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436932	04/12/19 11:41	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436430	04/09/19 14:09	JAP	TAL PEN
Total/NA	Analysis	7470A		1			436767	04/11/19 11:21	JAP	TAL PEN
Instrument ID: HYDRA AA2										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	274973	04/05/19 13:12	AVS	TAL PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	SM 4500 H+ B		1			275345	04/10/19 09:01	JMS	TAL PIT
Instrument ID: NOEQUIP										

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PEN
Batch Type: Prep
DRE = Daniel Etscheid
JAP = Jane Parker
Batch Type: Analysis
DRE = Daniel Etscheid
JAP = Jane Parker

Lab: TAL PIT
Batch Type: Prep
JAS = Joshua Schmidt
Batch Type: Analysis
AVS = Abbey Smith
CLL = Cheryl Loheyde
CMR = Carl Reagle
JAS = Joshua Schmidt
JMS = Jessica Scalise

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWA-2

Lab Sample ID: 180-88433-1

Date Collected: 04/01/19 15:33

Matrix: Water

Date Received: 04/03/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		1.0	0.71	mg/L			04/13/19 13:14	1
Fluoride	0.028	J	0.20	0.026	mg/L			04/13/19 13:14	1
Sulfate	200		1.0	0.38	mg/L			04/13/19 13:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:17	5
Barium	0.070		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:17	5
Boron	1.2		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:17	5
Calcium	35		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:17	5
Cobalt	0.0054		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:17	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:17	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:17	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:17	5
Vanadium	0.0030		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:17	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:17	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:17	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	19		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:51	1
Total Dissolved Solids	400		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:47	1
Total Organic Carbon - Duplicates	1.4		1.0	0.51	mg/L			04/09/19 00:46	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4	HF	0.1	0.1	SU			04/10/19 08:57	1

Client Sample ID: SWA-3

Lab Sample ID: 180-88433-2

Date Collected: 04/01/19 15:15

Matrix: Water

Date Received: 04/03/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0	0.71	mg/L			04/13/19 13:30	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 13:30	1
Sulfate	88		1.0	0.38	mg/L			04/13/19 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:21	5
Barium	0.044		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:21	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWA-3
Date Collected: 04/01/19 15:15
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.59		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:21	5
Calcium	13		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:21	5
Cobalt	0.0041		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:21	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:21	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:21	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:21	5
Vanadium	0.0037		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:21	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:21	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:21	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	15		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:52	1
Total Dissolved Solids	210		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:52	1
Total Organic Carbon - Duplicates	0.67	J	1.0	0.51	mg/L			04/09/19 01:04	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2	HF	0.1	0.1	SU			04/10/19 09:01	1

Client Sample ID: SWC-4
Date Collected: 04/01/19 14:24
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.1		1.0	0.71	mg/L			04/13/19 13:46	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 13:46	1
Sulfate	110		1.0	0.38	mg/L			04/13/19 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:26	5
Barium	0.051		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:26	5
Boron	0.63		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:26	5
Calcium	22		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:26	5
Cobalt	0.0020	J	0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:26	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-4
Date Collected: 04/01/19 14:24
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:26	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:26	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:26	5
Vanadium	0.0044		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:26	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:26	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:26	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	250		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.6	HF	0.1	0.1	SU			04/10/19 09:01	1

Client Sample ID: SWC-5
Date Collected: 04/01/19 14:10
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0	0.71	mg/L			04/13/19 14:02	1
Fluoride	0.12	J	0.20	0.026	mg/L			04/13/19 14:02	1
Sulfate	63		1.0	0.38	mg/L			04/13/19 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:30	5
Barium	0.032		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:30	5
Boron	0.061		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:30	5
Calcium	37		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:30	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:30	5
Chromium	0.0035		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:30	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:30	5
Selenium	0.0035		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:30	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:30	5
Vanadium	0.0087		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:30	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:30	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:30	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:30	5

Eurofins TestAmerica, Pittsburgh

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-5
Date Collected: 04/01/19 14:10
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-4
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	260		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5	HF	0.1	0.1	SU			04/10/19 09:01	1

Client Sample ID: SWC-6
Date Collected: 04/01/19 14:47
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.3		1.0	0.71	mg/L			04/13/19 14:17	1
Fluoride	0.037	J	0.20	0.026	mg/L			04/13/19 14:17	1
Sulfate	1.3		1.0	0.38	mg/L			04/13/19 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010	J	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:33	5
Barium	0.032		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:33	5
Boron	<0.021		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:33	5
Calcium	10		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:33	5
Cobalt	0.0032		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:33	5
Chromium	0.0013	J	0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:33	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:33	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:33	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:33	5
Vanadium	0.0081		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:33	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:33	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:33	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	100		10	10	mg/L			04/05/19 13:12	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.7	HF	0.1	0.1	SU			04/10/19 09:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-7

Lab Sample ID: 180-88433-6

Date Collected: 04/01/19 14:37

Matrix: Water

Date Received: 04/03/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.7		1.0	0.71	mg/L			04/13/19 14:33	1
Fluoride	0.081	J	0.20	0.026	mg/L			04/13/19 14:33	1
Sulfate	87		1.0	0.38	mg/L			04/13/19 14:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	J	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:37	5
Barium	0.058		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:37	5
Boron	0.51		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:37	5
Calcium	23		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:37	5
Cobalt	0.00043	J	0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:37	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:37	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:37	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:37	5
Vanadium	0.0072		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:37	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:37	5
Copper	0.0023	J	0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:37	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:53	1
Total Dissolved Solids	230		10	10	mg/L			04/05/19 13:12	1
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:54	1
Total Organic Carbon - Duplicates	1.7		1.0	0.51	mg/L			04/09/19 01:22	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8	HF	0.1	0.1	SU			04/10/19 09:01	1

Client Sample ID: SWC-8

Lab Sample ID: 180-88433-7

Date Collected: 04/01/19 15:05

Matrix: Water

Date Received: 04/03/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		1.0	0.71	mg/L			04/13/19 15:21	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 15:21	1
Sulfate	140		1.0	0.38	mg/L			04/13/19 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00081	J	0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 11:41	5
Barium	0.061		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 11:41	5

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Client Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Client Sample ID: SWC-8
Date Collected: 04/01/19 15:05
Date Received: 04/03/19 09:40

Lab Sample ID: 180-88433-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.87		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 11:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:41	5
Calcium	26		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 11:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 11:41	5
Cobalt	0.0049		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 11:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 11:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 11:41	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 11:41	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 11:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 11:41	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 11:41	5
Vanadium	0.0056		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 11:41	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 11:41	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 11:41	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 11:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 11:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	300		10	10	mg/L			04/05/19 13:12	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4	HF	0.1	0.1	SU			04/10/19 09:01	1

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

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

Lab Sample ID: MB 180-275670/5
Matrix: Water
Analysis Batch: 275670

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.71		1.0	0.71	mg/L			04/13/19 07:25	1
Fluoride	<0.026		0.20	0.026	mg/L			04/13/19 07:25	1
Sulfate	<0.38		1.0	0.38	mg/L			04/13/19 07:25	1

Lab Sample ID: LCS 180-275670/6
Matrix: Water
Analysis Batch: 275670

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.4		mg/L		102	90 - 110
Fluoride	1.25	1.14		mg/L		92	90 - 110
Sulfate	25.0	24.9		mg/L		100	90 - 110

Lab Sample ID: 180-88433-3 MS
Matrix: Water
Analysis Batch: 275670

Client Sample ID: SWC-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.1		25.0	33.0		mg/L		100	80 - 120
Fluoride	<0.026		1.25	1.19		mg/L		95	80 - 120
Sulfate	110		25.0	128	4	mg/L		83	80 - 120

Lab Sample ID: 180-88433-3 MSD
Matrix: Water
Analysis Batch: 275670

Client Sample ID: SWC-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.1		25.0	32.8		mg/L		99	80 - 120	1	20
Fluoride	<0.026		1.25	1.17		mg/L		94	80 - 120	1	20
Sulfate	110		25.0	127	4	mg/L		77	80 - 120	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-436825/1-A ^5
Matrix: Water
Analysis Batch: 436932

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 436825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/11/19 17:30	04/12/19 09:23	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/11/19 17:30	04/12/19 09:23	5
Boron	<0.021		0.050	0.021	mg/L		04/11/19 17:30	04/12/19 09:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 09:23	5
Calcium	<0.13		0.25	0.13	mg/L		04/11/19 17:30	04/12/19 09:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/11/19 17:30	04/12/19 09:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/11/19 17:30	04/12/19 09:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/11/19 17:30	04/12/19 09:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/11/19 17:30	04/12/19 09:23	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/11/19 17:30	04/12/19 09:23	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/11/19 17:30	04/12/19 09:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/11/19 17:30	04/12/19 09:23	5

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QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

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

Lab Sample ID: MB 400-436825/1-A ^5
Matrix: Water
Analysis Batch: 436932

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 436825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.0018		0.0025	0.0018	mg/L		04/11/19 17:30	04/12/19 09:23	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/11/19 17:30	04/12/19 09:23	5
Silver	<0.00011		0.0013	0.00011	mg/L		04/11/19 17:30	04/12/19 09:23	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/11/19 17:30	04/12/19 09:23	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/11/19 17:30	04/12/19 09:23	5

Lab Sample ID: LCS 400-436825/2-A
Matrix: Water
Analysis Batch: 436932

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 436825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0501		mg/L		100	80 - 120
Barium	0.0500	0.0506		mg/L		101	80 - 120
Boron	0.100	0.108		mg/L		108	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Calcium	5.00	4.74		mg/L		95	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Cobalt	0.0500	0.0488		mg/L		98	80 - 120
Chromium	0.0500	0.0472		mg/L		94	80 - 120
Lead	0.0500	0.0507		mg/L		101	80 - 120
Antimony	0.0500	0.0430		mg/L		86	80 - 120
Selenium	0.0500	0.0479		mg/L		96	80 - 120
Thallium	0.0100	0.00993		mg/L		99	80 - 120
Nickel	0.0500	0.0495		mg/L		99	80 - 120
Vanadium	0.0500	0.0471		mg/L		94	80 - 120
Silver	0.0500	0.0505		mg/L		101	80 - 120
Copper	0.0500	0.0483		mg/L		97	80 - 120
Zinc	0.0500	0.0503		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-436430/14-A
Matrix: Water
Analysis Batch: 436767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 436430

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/09/19 14:09	04/11/19 09:46	1

Lab Sample ID: LCS 400-436430/15-A
Matrix: Water
Analysis Batch: 436767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 436430

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000960		mg/L		95	80 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Method: EPA 410.4 - COD

Lab Sample ID: MB 180-276185/14-A
Matrix: Water
Analysis Batch: 276193

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 276185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<9.1		10	9.1	mg/L		04/18/19 11:17	04/18/19 14:38	1

Lab Sample ID: LCS 180-276185/13-A
Matrix: Water
Analysis Batch: 276193

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 276185
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chemical Oxygen Demand	100	100		mg/L		100	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-274973/2
Matrix: Water
Analysis Batch: 274973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/05/19 13:12	1

Lab Sample ID: LCS 180-274973/1
Matrix: Water
Analysis Batch: 274973

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	304	296		mg/L		97	80 - 120

Lab Sample ID: 180-88433-7 DU
Matrix: Water
Analysis Batch: 274973

Client Sample ID: SWC-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	300		293		mg/L		4	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 180-275344/1
Matrix: Water
Analysis Batch: 275344

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: LCS 180-275345/1
Matrix: Water
Analysis Batch: 275345

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
pH	7.00	7.0		SU		100	99 - 101

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 180-88433-6 DU
Matrix: Water
Analysis Batch: 275345

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8	HF	7.8		SU		0.6	2

Method: SM 4500CN E - Total Cyanide

Lab Sample ID: MB 180-275771/4-A
Matrix: Water
Analysis Batch: 275848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/15/19 16:36	1

Lab Sample ID: MB 180-275771/4-A
Matrix: Water
Analysis Batch: 275914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 275771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0044		0.010	0.0044	mg/L		04/15/19 12:59	04/16/19 10:57	1

Lab Sample ID: HLCS 180-275771/2-A
Matrix: Water
Analysis Batch: 275848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275771

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.250	0.255		mg/L		102	90 - 110

Lab Sample ID: LCS 180-275771/3-A
Matrix: Water
Analysis Batch: 275848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.200	0.193		mg/L		96	90 - 110

Lab Sample ID: LCS 180-275771/3-A
Matrix: Water
Analysis Batch: 275914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.200	0.200		mg/L		100	90 - 110

Lab Sample ID: LLCS 180-275771/1-A
Matrix: Water
Analysis Batch: 275848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275771

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	Limits
Cyanide, Total	0.0500	0.0456		mg/L		91	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Method: SM 4500CN E - Total Cyanide (Continued)

Lab Sample ID: LLCS 180-275771/1-A
Matrix: Water
Analysis Batch: 275914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 275771
%Rec.

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0525		mg/L		105	90 - 110

Method: SM 5310C - Total Organic Carbon

Lab Sample ID: MB 180-275163/36
Matrix: Water
Analysis Batch: 275163

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<0.51		1.0	0.51	mg/L			04/08/19 22:21	1

Lab Sample ID: LCS 180-275163/34
Matrix: Water
Analysis Batch: 275163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	20.0	20.0		mg/L		100	85 - 115

Lab Sample ID: LCSD 180-275163/35
Matrix: Water
Analysis Batch: 275163

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	20.0	20.8		mg/L		104	85 - 115	4	20

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

HPLC/IC

Analysis Batch: 275670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	EPA 300.0 R2.1	
180-88433-2	SWA-3	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88433-4	SWC-5	Total/NA	Water	EPA 300.0 R2.1	
180-88433-5	SWC-6	Total/NA	Water	EPA 300.0 R2.1	
180-88433-6	SWC-7	Total/NA	Water	EPA 300.0 R2.1	
180-88433-7	SWC-8	Total/NA	Water	EPA 300.0 R2.1	
MB 180-275670/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 180-275670/6	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3 MS	SWC-4	Total/NA	Water	EPA 300.0 R2.1	
180-88433-3 MSD	SWC-4	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 436430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	7470A	
180-88433-2	SWA-3	Total/NA	Water	7470A	
180-88433-3	SWC-4	Total/NA	Water	7470A	
180-88433-4	SWC-5	Total/NA	Water	7470A	
180-88433-5	SWC-6	Total/NA	Water	7470A	
180-88433-6	SWC-7	Total/NA	Water	7470A	
180-88433-7	SWC-8	Total/NA	Water	7470A	
MB 400-436430/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-436430/15-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 436767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	7470A	436430
180-88433-2	SWA-3	Total/NA	Water	7470A	436430
180-88433-3	SWC-4	Total/NA	Water	7470A	436430
180-88433-4	SWC-5	Total/NA	Water	7470A	436430
180-88433-5	SWC-6	Total/NA	Water	7470A	436430
180-88433-6	SWC-7	Total/NA	Water	7470A	436430
180-88433-7	SWC-8	Total/NA	Water	7470A	436430
MB 400-436430/14-A	Method Blank	Total/NA	Water	7470A	436430
LCS 400-436430/15-A	Lab Control Sample	Total/NA	Water	7470A	436430

Prep Batch: 436825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total Recoverable	Water	3005A	
180-88433-2	SWA-3	Total Recoverable	Water	3005A	
180-88433-3	SWC-4	Total Recoverable	Water	3005A	
180-88433-4	SWC-5	Total Recoverable	Water	3005A	
180-88433-5	SWC-6	Total Recoverable	Water	3005A	
180-88433-6	SWC-7	Total Recoverable	Water	3005A	
180-88433-7	SWC-8	Total Recoverable	Water	3005A	
MB 400-436825/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-436825/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

Metals

Analysis Batch: 436932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total Recoverable	Water	6020	436825
180-88433-2	SWA-3	Total Recoverable	Water	6020	436825
180-88433-3	SWC-4	Total Recoverable	Water	6020	436825
180-88433-4	SWC-5	Total Recoverable	Water	6020	436825
180-88433-5	SWC-6	Total Recoverable	Water	6020	436825
180-88433-6	SWC-7	Total Recoverable	Water	6020	436825
180-88433-7	SWC-8	Total Recoverable	Water	6020	436825
MB 400-436825/1-A ^5	Method Blank	Total Recoverable	Water	6020	436825
LCS 400-436825/2-A	Lab Control Sample	Total Recoverable	Water	6020	436825

General Chemistry

Analysis Batch: 274973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 2540C	
180-88433-2	SWA-3	Total/NA	Water	SM 2540C	
180-88433-3	SWC-4	Total/NA	Water	SM 2540C	
180-88433-4	SWC-5	Total/NA	Water	SM 2540C	
180-88433-5	SWC-6	Total/NA	Water	SM 2540C	
180-88433-6	SWC-7	Total/NA	Water	SM 2540C	
180-88433-7	SWC-8	Total/NA	Water	SM 2540C	
MB 180-274973/2	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-274973/1	Lab Control Sample	Total/NA	Water	SM 2540C	
180-88433-7 DU	SWC-8	Total/NA	Water	SM 2540C	

Analysis Batch: 275163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 5310C	
180-88433-2	SWA-3	Total/NA	Water	SM 5310C	
180-88433-6	SWC-7	Total/NA	Water	SM 5310C	
MB 180-275163/36	Method Blank	Total/NA	Water	SM 5310C	
LCS 180-275163/34	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 180-275163/35	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 275344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500 H+ B	
LCS 180-275344/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 275345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-2	SWA-3	Total/NA	Water	SM 4500 H+ B	
180-88433-3	SWC-4	Total/NA	Water	SM 4500 H+ B	
180-88433-4	SWC-5	Total/NA	Water	SM 4500 H+ B	
180-88433-5	SWC-6	Total/NA	Water	SM 4500 H+ B	
180-88433-6	SWC-7	Total/NA	Water	SM 4500 H+ B	
180-88433-7	SWC-8	Total/NA	Water	SM 4500 H+ B	
LCS 180-275345/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
180-88433-6 DU	SWC-7	Total/NA	Water	SM 4500 H+ B	

QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88433-1
SDG: Surface Water

General Chemistry

Prep Batch: 275771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500 CN C	
180-88433-2	SWA-3	Total/NA	Water	SM 4500 CN C	
180-88433-6	SWC-7	Total/NA	Water	SM 4500 CN C	
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500 CN C	
HLCS 180-275771/2-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500 CN C	

Analysis Batch: 275848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	SM 4500CN E	275771
180-88433-2	SWA-3	Total/NA	Water	SM 4500CN E	275771
180-88433-6	SWC-7	Total/NA	Water	SM 4500CN E	275771
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500CN E	275771
HLCS 180-275771/2-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771

Analysis Batch: 275914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-275771/4-A	Method Blank	Total/NA	Water	SM 4500CN E	275771
LCS 180-275771/3-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771
LLCS 180-275771/1-A	Lab Control Sample	Total/NA	Water	SM 4500CN E	275771

Prep Batch: 276185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	410.4	
180-88433-2	SWA-3	Total/NA	Water	410.4	
180-88433-6	SWC-7	Total/NA	Water	410.4	
MB 180-276185/14-A	Method Blank	Total/NA	Water	410.4	
LCS 180-276185/13-A	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 276193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88433-1	SWA-2	Total/NA	Water	EPA 410.4	276185
180-88433-2	SWA-3	Total/NA	Water	EPA 410.4	276185
180-88433-6	SWC-7	Total/NA	Water	EPA 410.4	276185
MB 180-276185/14-A	Method Blank	Total/NA	Water	EPA 410.4	276185
LCS 180-276185/13-A	Lab Control Sample	Total/NA	Water	EPA 410.4	276185

Chain of Custody Record

Client Information		Sampler: Karim Minkara		Lab PM: Bortot, Veronica		Carrier Tracking No(s):		COC No: 400-68569-27833.1							
Client Contact: Joju Abraham		Phone: 470-715-3225		E-Mail: veronica.bortot@testamericainc.com				Page: Page 1 of 1							
Company: Southern Company				Analysis Requested				Job #:							
Address: 241 Ralph McGill Blvd SE B10185		Due Date Requested:								Preservation Codes:					
City: Atlanta		TAT Requested (days): 3 - 5 days						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA							
State, Zip: GA, 30308		PO #: SCS10347656						M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)							
Phone:		WO #:						Other:							
Email: JAbraham@southernco.com		Project #: 18019884						Special Instructions/Note: Was not provided with trip blanks							
Project Name: CCR - Plant Scherer		SSOW#:													
Site: Surface Water															
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D - Chloride, Fluoride, & Sulfate	4500_CN_E-Cyanide, Total	5220D - Chemical Oxygen Demand	SMS310B - TOC	6020 - Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Se, Ti+Ag, Cu, Ni, V, Zn & 7470A - Hg	2540C - TDS	SMS4000_H+ - pH & Temperature	Total Number of containers
				Preservation Code:				N	B	S	S	D	N	N	
SWA-2	4/1/19	1533	G	Water	N	X	X	X	X	X	X	X	X	X	7
SWA-3	4/1/19	1515	G	Water	N	X	X	X	X	X	X	X	X	X	7
SWC-4	4/1/19	1424	G	Water	N	X				X	X	X			2
SWC-5	4/1/19	1410	G	Water	N	X				X	X	X			2
SWC-6	4/1/19	1447	G	Water	N	X				X	X	X			2
SWC-7	4/1/19	1437	G	Water	N	X	X	X	X	X	X	X	X	X	7
SWC-8	4/1/19	1505	G	Water	N	X				X	X	X			2



180-88433 Chain of Custody

Possible Hazard Identification				Sample Disposal (A fee may be assessed if)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> A: _____ Morris: _____			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4-2-19 7:55	Company: Golder	Received by: <i>Maive Cook 07:58</i>		Date/Time: 4/29/19 07:58	Company: <i>Owner News</i>
Relinquished by: <i>Maive Cook</i>		Date/Time: 4/2/19 09:30	Company: <i>Comin</i>	Received by: <i>Ly 2</i>		Date/Time: 4/2/19	Company: <i>TA</i>
Relinquished by: <i>[Signature]</i>		Date/Time: 4/2/19	Company: <i>TA</i>	Received by: <i>[Signature]</i>		Date/Time: 4-3-19	Company: <i>JAPitt</i>
Custody Seals Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No: <i>1616</i>		Cooler Temperature(s) °C and Other Remarks: <i>9.40</i>			



Spec: STANDARD OVERNIGHT Master 4651 0081 0894
TRACK: 4651 0081 0910

TestAmerica

MENTAL TESTING

THE LEADER IN ENVIRON

SHIP DATE: 02APR19
ACTWGT: 69.30 LB
CAD: 859116/CAFE3211

BILL RECIPIENT

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068
REF: SOUTHERN CO.



180-88433 Waybill

4651 0081 0910

Master# 4651 0881 0894

0201

15238
PIT

PA-US

NA AGCA



1.2 °C
10
B

Uncorrected temp
Thermometer ID

CF 0 Initials

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

TRACK: 4651 0081 0910

TestAmerica

MENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

SHIP DATE: 02APR19
ACTWGT: 69.30 LB
CAD: 859116/CAFE3211

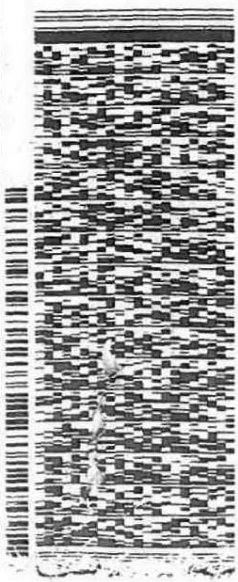
BILL RECIPIENT

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

TO SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7068

REF: SOUTHERN CO.



WED - 03 APR 3:00P
STANDARD OVERNIGHT

3 of 3

1651 0081 0910

Master# 4651 0081 0894

0201

15238
PIT

PA-US

NA AGCA



2.1 °C
10
B

Uncorrected temp
Thermometer ID

CF 0 Initials

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



Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving				Phone:	Bortot, Veronica		180-359238.1	
Company: TestAmerica Laboratories, Inc.				E-Mail:	veronica.bortot@testamericainc.com	State of Origin:	Page: Page 1 of 1	
Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001(Tel) 850-478-2671(Fax) Email:				Due Date Requested: 4/15/2019	Analysis Requested		Job #: 180-88433-1	
Project Name: CCR - Plant Scherer Site: CCR Plant Scherer				TAT Requested (days):	Accreditations Required (See note):		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:	
PO #:				Project #: 18019884	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	
WO #:				SSOW#:				
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oli, BT=Tissue, A=Air)	Special Instructions/Note:
SWA-2 (180-88433-1)				4/1/19	15:33 Eastern		Water	X X 1
SWA-3 (180-88433-2)				4/1/19	15:15 Eastern		Water	X X 1
SWC-4 (180-88433-3)				4/1/19	14:24 Eastern		Water	X X 1
SWC-5 (180-88433-4)				4/1/19	14:10 Eastern		Water	X X 1
SWC-6 (180-88433-5)				4/1/19	14:47 Eastern		Water	X X 1
SWC-7 (180-88433-6)				4/1/19	14:37 Eastern		Water	X X 1
SWC-8 (180-88433-7)				4/1/19	15:05 Eastern		Water	X X 1

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 4/15/19 1200	Company: <i>[Signature]</i>	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by: <i>[Signature]</i>		Date/Time: 4-6-19 0827	Company: TAPEN
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.6°C, 3.0°C, 3.2°C 1B7			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88433-1
SDG Number: Surface Water

Login Number: 88433

List Number: 1

Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88433-1
SDG Number: Surface Water

Login Number: 88433
List Number: 2
Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola
List Creation: 04/06/19 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C 2.6°C 3.2°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL RESULTS

EFFLUENT

ANALYTICAL REPORT

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

Laboratory Job ID: 180-88437-1
Client Project/Site: CCR - Plant Scherer

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

Attn: Joju Abraham



Authorized for release by:
4/15/2019 4:13:56 PM

Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

LINKS

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results through
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www.testamericainc.com

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

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

PA Lab ID: 02-00416

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5

6

7

8

9

10

11

12

13

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Certification Summary	5
Sample Summary	7
Method Summary	8
Lab Chronicle	9
Client Sample Results	10
QC Sample Results	11
QC Association Summary	13
Chain of Custody	14
Receipt Checklists	17



Case Narrative

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Job ID: 180-88437-1

Laboratory: Eurofins TestAmerica, Pittsburgh

Narrative

Job Narrative 180-88437-1

Comments

No additional comments.

Receipt

The samples were received on 4/3/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 2.1° C.

Metals

Method(s) 245.1, 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-436242 and analytical batch 400-436463 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7470A: The following sample was diluted to bring the concentration of target analytes within the calibration range: EFFLUENT (180-88437-1). Elevated reporting limits (RLs) are provided.

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



Definitions/Glossary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Qualifiers

Metals

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

Glossary

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

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Laboratory: Eurofins TestAmerica, Pittsburgh

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19 *
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	01-28-19 *
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19 *
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

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

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Laboratory: Eurofins TestAmerica, Pensacola

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-19
ANAB	ISO/IEC 17025		L2471	02-22-20
Arizona	State Program	9	AZ0710	01-12-20
Arkansas DEQ	State Program	6	88-0689	09-01-19
California	State Program	9	2510	06-30-19
Florida	NELAP	4	E81010	06-30-19
Georgia	State Program	4	E81010 (FL)	06-30-19
Illinois	NELAP	5	200041	10-09-19
Iowa	State Program	7	367	08-01-20
Kansas	NELAP	7	E-10253	10-31-19
Kentucky (UST)	State Program	4	53	06-30-19
Kentucky (WW)	State Program	4	98030	12-31-19
Louisiana	NELAP	6	30976	06-30-19
Louisiana (DW)	NELAP	6	LA017	12-31-19
Maryland	State Program	3	233	09-30-19
Massachusetts	State Program	1	M-FL094	06-30-19
Michigan	State Program	5	9912	06-30-19
New Jersey	NELAP	2	FL006	06-30-19
North Carolina (WW/SW)	State Program	4	314	12-31-19
Oklahoma	State Program	6	9810	08-31-19
Pennsylvania	NELAP	3	68-00467	01-31-20
Rhode Island	State Program	1	LAO00307	12-30-19
South Carolina	State Program	4	96026	06-30-19
Tennessee	State Program	4	TN02907	06-30-19
Texas	NELAP	6	T104704286-18-15	09-30-19
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-18-00148	05-17-21
Virginia	NELAP	3	460166	06-14-19
Washington	State Program	10	C915	05-15-19
West Virginia DEP	State Program	3	136	07-31-19

Sample Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-88437-1	EFFLUENT	Water	04/01/19 12:55	04/03/19 09:40

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- 2
- 3
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Method Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL PEN
7470A	Preparation, Mercury	SW846	TAL PEN

Protocol References:

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

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Lab Chronicle

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Client Sample ID: EFFLUENT

Lab Sample ID: 180-88437-1

Date Collected: 04/01/19 12:55

Matrix: Water

Date Received: 04/03/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	436360	04/09/19 11:00	DRE	TAL PEN
Total Recoverable	Analysis	6020		5			436562	04/09/19 23:45	DRE	TAL PEN
Instrument ID: ICPMS7700										
Total/NA	Prep	7470A			40 mL	40 mL	436242	04/08/19 12:56	JAP	TAL PEN
Total/NA	Analysis	7470A		20			436463	04/09/19 14:54	JAP	TAL PEN
Instrument ID: HYDRA AA2										

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Analyst References:

Lab: TAL PEN

Batch Type: Prep

DRE = Daniel Etscheid

JAP = Jane Parker

Batch Type: Analysis

DRE = Daniel Etscheid

JAP = Jane Parker

Client Sample Results

Client: Southern Company
 Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Client Sample ID: EFFLUENT

Lab Sample ID: 180-88437-1

Date Collected: 04/01/19 12:55

Matrix: Water

Date Received: 04/03/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.033		0.0013	0.00046	mg/L		04/09/19 11:00	04/09/19 23:45	5
Barium	0.43		0.0025	0.00049	mg/L		04/09/19 11:00	04/09/19 23:45	5
Beryllium	0.0029		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 23:45	5
Cadmium	0.0038		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 23:45	5
Cobalt	0.026		0.0025	0.00040	mg/L		04/09/19 11:00	04/09/19 23:45	5
Chromium	0.12		0.0025	0.0011	mg/L		04/09/19 11:00	04/09/19 23:45	5
Lead	0.031		0.0013	0.00035	mg/L		04/09/19 11:00	04/09/19 23:45	5
Antimony	0.0083		0.0025	0.0010	mg/L		04/09/19 11:00	04/09/19 23:45	5
Selenium	0.076		0.0013	0.00071	mg/L		04/09/19 11:00	04/09/19 23:45	5
Thallium	0.00021	J	0.00050	0.000085	mg/L		04/09/19 11:00	04/09/19 23:45	5
Vanadium	0.048		0.0025	0.0014	mg/L		04/09/19 11:00	04/09/19 23:45	5
Zinc	0.29		0.020	0.0065	mg/L		04/09/19 11:00	04/09/19 23:45	5
Copper	0.18		0.0025	0.0021	mg/L		04/09/19 11:00	04/09/19 23:45	5
Nickel	0.16		0.0025	0.0018	mg/L		04/09/19 11:00	04/09/19 23:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.060		0.0040	0.0014	mg/L		04/08/19 12:56	04/09/19 14:54	20

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-436360/1-A ^5
Matrix: Water
Analysis Batch: 436562

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 436360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		04/09/19 11:00	04/09/19 21:02	5
Barium	<0.00049		0.0025	0.00049	mg/L		04/09/19 11:00	04/09/19 21:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 21:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		04/09/19 11:00	04/09/19 21:02	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		04/09/19 11:00	04/09/19 21:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		04/09/19 11:00	04/09/19 21:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		04/09/19 11:00	04/09/19 21:02	5
Antimony	<0.0010		0.0025	0.0010	mg/L		04/09/19 11:00	04/09/19 21:02	5
Selenium	<0.00071		0.0013	0.00071	mg/L		04/09/19 11:00	04/09/19 21:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		04/09/19 11:00	04/09/19 21:02	5
Vanadium	<0.0014		0.0025	0.0014	mg/L		04/09/19 11:00	04/09/19 21:02	5
Zinc	<0.0065		0.020	0.0065	mg/L		04/09/19 11:00	04/09/19 21:02	5
Copper	<0.0021		0.0025	0.0021	mg/L		04/09/19 11:00	04/09/19 21:02	5
Nickel	<0.0018		0.0025	0.0018	mg/L		04/09/19 11:00	04/09/19 21:02	5

Lab Sample ID: LCS 400-436360/2-A
Matrix: Water
Analysis Batch: 436562

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 436360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0500	0.0489		mg/L		98	80 - 120
Barium	0.0500	0.0468		mg/L		94	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Cadmium	0.0500	0.0478		mg/L		96	80 - 120
Cobalt	0.0500	0.0508		mg/L		102	80 - 120
Chromium	0.0500	0.0491		mg/L		98	80 - 120
Lead	0.0500	0.0496		mg/L		99	80 - 120
Antimony	0.0500	0.0484		mg/L		97	80 - 120
Selenium	0.0500	0.0478		mg/L		96	80 - 120
Thallium	0.0100	0.00966		mg/L		97	80 - 120
Vanadium	0.0500	0.0478		mg/L		96	80 - 120
Zinc	0.0500	0.0486		mg/L		97	80 - 120
Copper	0.0500	0.0503		mg/L		101	80 - 120
Nickel	0.0500	0.0503		mg/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-436242/14-A
Matrix: Water
Analysis Batch: 436463

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 436242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/08/19 12:55	04/09/19 14:23	1

Eurofins TestAmerica, Pittsburgh

QC Sample Results

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

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

Lab Sample ID: LCS 400-436242/15-A
Matrix: Water
Analysis Batch: 436463

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 436242
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00114		mg/L		114	80 - 120

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QC Association Summary

Client: Southern Company
Project/Site: CCR - Plant Scherer

Job ID: 180-88437-1

Metals

Prep Batch: 436242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total/NA	Water	7470A	
MB 400-436242/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-436242/15-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 436360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total Recoverable	Water	3005A	
MB 400-436360/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-436360/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 436463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total/NA	Water	7470A	436242
MB 400-436242/14-A	Method Blank	Total/NA	Water	7470A	436242
LCS 400-436242/15-A	Lab Control Sample	Total/NA	Water	7470A	436242

Analysis Batch: 436562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-88437-1	EFFLUENT	Total Recoverable	Water	6020	436360
MB 400-436360/1-A ^5	Method Blank	Total Recoverable	Water	6020	436360
LCS 400-436360/2-A	Lab Control Sample	Total Recoverable	Water	6020	436360

Chain of Custody Record



Client Information	Sampler: Karim Minkara Client Contact: Karim Minkara Phone: 470-715-3225 E-Mail: yeronica.bortol@testamericainc.com
Company:	Southern Company
Address:	241 Ralph McGill Blvd SE B10185
City:	Atlanta
State, Zip:	GA, 30308
Phone:	
PO #:	SCS10347656
WO #:	
Email:	Jabraham@southernco.com
Project Name:	CCR - Plant Scherer
Project #:	18019884
Site:	
Effluent:	

Due Date Requested:	
TAT Requested (days):	3 - 5 days

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, O-wastewater, B-tissue, A-air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	State 6020 - As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Sb, Se, Ag, Ti, V, Zn & 1470 - Hg	Special Instructions/Note:
Effluent	4/1/19	1255	G	Water	N	X		1 X Sampled from Unit 4
Total Number of containers								

Possible Hazard Identification		Deliverable Requested: I, II, III, IV, Other (specify)	
<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B
<input type="checkbox"/> Unknown	<input type="checkbox"/> Radiological		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposal By Lab	<input type="checkbox"/> Archive For	Months
Special Instructions/OC Requirements:			

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
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Relinquished by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:

Cooler Temperatures (C and Other Remarks):	Custody Seal No.:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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TRACK: 4651 0081 0910

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ORIGIN ID: NLA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE
MCDONOUGH, GA 30093
UNITED STATES US

SHIP DATE: 02APR19
ACTWT: 69.30 LB
CND: 859116/CAFE321

BILL RECIPIENT

SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



3 of 3
1651 0081 0910
WED - 03 APR 3:00P
STANDARD OVERNIGHT
0201

PA-US PIT 15238

Uncorrected temp
Thermometer ID

CF 0 Initials

21/10 °C



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

TestAmerica

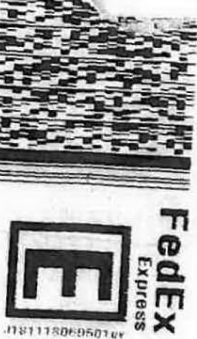
THE LEADER IN ENVIRON

ORIGIN ID: NLA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE
MCDONOUGH, GA 30093
UNITED STATES US

SHIP DATE: 02APR19
ACTWT: 69.30 LB
CND: 859116/CAFE3211

BILL RECIPIENT

SAMPLE RECEIVING
TA PITTSBURGH
301 ALPHA DRIVE
RIDC PARK
PITTSBURGH PA 15238
(412) 963-7068
REF: SOUTHERN CO.



3 of 3
1651 0081 0909
WED - 03 APR 3:00P
STANDARD OVERNIGHT
0201

PA-US PIT 15238

Uncorrected temp
Thermometer ID

CF 0 Initials

1.2/10 °C



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

SHIP STANDARD OVERNIGHT Master 4651 0081 0909
TRACK: 4651 0081 0909

3459-424 RIT2 EXP 10/19

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88437-1

Login Number: 88437

List Source: Eurofins TestAmerica, Pittsburgh

List Number: 1

Creator: Watson, Debbie

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



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-88437-1

Login Number: 88437

List Number: 2

Creator: Conrady, Hank W

List Source: Eurofins TestAmerica, Pensacola

List Creation: 04/06/19 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0°C 3.2°C 2.6°C IR-7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX A

FIELD DATA FORMS

FIELD DATA FORMS

CELL 1

Product Name: Low-Flow System

Date: 2019-03-26 10:46:55

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 25 ft

Pump placement from TOC 25 ft

Well Information:

Well ID GWA-15
Well diameter 2 in
Well Total Depth 29.59 ft
Screen Length 10 ft
Depth to Water 9.87 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2015856 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.12 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:30:26	300.07	17.56	5.78	52.48	1.39	10.11	0.34	76.10
Last 5	10:35:26	600.02	17.22	5.45	52.65	3.41	10.12	0.26	68.03
Last 5	10:40:26	900.02	17.48	5.41	53.22	1.96	10.13	0.22	65.60
Last 5	10:45:26	1200.02	17.68	5.41	53.60	2.04	10.13	0.20	63.96
Last 5									
Variance 0			-0.34	-0.33	0.17			-0.08	-8.08
Variance 1			0.26	-0.04	0.57			-0.03	-2.43
Variance 2			0.20	0.00	0.38			-0.02	-1.63

Notes

Sampled GWA-15 at 1045

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 11:23:29

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 53.00 ft

Pump placement from TOC 53.00 ft

Well Information:

Well ID GWA-16
Well diameter 2 in
Well Total Depth 57.93 ft
Screen Length 10 ft
Depth to Water 30.43 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4515614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.92 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:00:45	300.03	18.78	6.38	101.65	5.75	30.83	5.96	118.05
Last 5	11:05:45	600.02	18.52	6.41	102.38	3.38	30.84	5.90	118.51
Last 5	11:10:45	900.01	18.79	6.40	102.30	3.01	30.84	5.82	122.00
Last 5	11:15:45	1200.01	18.80	6.42	102.80	2.71	30.84	5.79	126.63
Last 5	11:20:45	1500.00	18.79	6.42	103.27	2.07	30.84	5.77	136.33
Variance 0			0.27	-0.01	-0.08			-0.08	3.49
Variance 1			0.02	0.01	0.50			-0.03	4.63
Variance 2			-0.02	0.00	0.47			-0.02	9.70

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 10:07:00

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 41.76 ft

Pump placement from TOC 41.76 ft

Well Information:

Well ID GWA-17
Well diameter 2 in
Well Total Depth 46.76 ft
Screen Length 10 ft
Depth to Water 30.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4013925 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.8 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:43:04	300.08	18.88	6.16	74.29	9.08	31.35	6.77	94.84
Last 5	09:48:04	600.02	18.90	6.13	76.55	7.39	31.40	6.79	100.29
Last 5	09:53:04	900.01	18.82	6.13	77.91	6.37	31.40	6.83	104.85
Last 5	09:58:04	1200.01	18.96	6.14	79.23	3.45	31.40	6.86	108.77
Last 5									
Variance 0			0.03	-0.03	2.26			0.02	5.45
Variance 1			-0.09	-0.00	1.36			0.04	4.57
Variance 2			0.15	0.01	1.32			0.03	3.92

Notes

SmartTroll disconnected. Final readings in part 2

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 10:31:47

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 41.76 ft

Pump placement from TOC 41.76 ft

Well Information:

Well ID GWA-17
Well diameter 2 in
Well Total Depth 46.76 ft
Screen Length 10 ft
Depth to Water 30.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4013925 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.8 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:18:16	300.03	18.74	6.14	79.03	4.23	31.37	6.91	91.41
Last 5	10:23:16	600.02	18.96	6.13	79.68	4.21	31.41	6.89	101.67
Last 5	10:28:16	900.01	18.73	6.12	78.93	3.53	31.38	6.88	110.46
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.22	-0.01	0.65			-0.02	10.26
Variance 2			-0.23	-0.01	-0.74			-0.01	8.79

Notes

Part 2 after smarttroll reconnected

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 12:14:36

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-1
Well diameter 2 in
Well Total Depth 38.72 ft
Screen Length 10 ft
Depth to Water 6.64 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.44 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:57:32	300.03	17.82	6.39	158.54	1.89	6.97	5.43	88.12
Last 5	12:02:32	600.02	17.41	6.50	159.89	0.48	6.99	5.52	84.64
Last 5	12:07:32	900.02	17.07	6.53	158.91	0.62	7.00	5.52	83.65
Last 5	12:12:32	1200.02	17.24	6.54	157.66	0.39	7.01	5.44	83.62
Last 5									
Variance 0			-0.41	0.11	1.35			0.09	-3.48
Variance 1			-0.34	0.03	-0.98			-0.00	-0.99
Variance 2			0.18	0.01	-1.25			-0.08	-0.03

Notes

Sampled GWC-1 at 1210

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 13:07:53

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 54 ft

Pump placement from TOC 54 ft

Well Information:

Well ID GWC-2
Well diameter 2 in
Well Total Depth 58.74 ft
Screen Length 10 ft
Depth to Water 11.03 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3310249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 21.36 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:46:26	300.02	18.35	6.63	146.55	0.51	11.98	4.07	91.15
Last 5	12:51:26	600.02	17.94	6.49	148.32	0.56	12.39	4.06	90.99
Last 5	12:56:26	900.02	19.29	6.45	148.80	0.66	12.64	3.94	91.10
Last 5	13:01:26	1200.02	19.19	6.43	150.14	0.46	12.76	3.86	91.91
Last 5	13:06:26	1500.01	18.75	6.44	148.76	0.71	12.81	3.80	93.59
Variance 0			1.34	-0.04	0.48			-0.12	0.11
Variance 1			-0.10	-0.01	1.34			-0.08	0.81
Variance 2			-0.44	0.01	-1.38			-0.06	1.68

Notes

Sampled GWC-2 @ 1305

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 16:42:30

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 45 ft

Pump placement from TOC 45 ft

Well Information:

Well ID GWC-3
Well diameter 2 in
Well Total Depth 50.16 ft
Screen Length 10 ft
Depth to Water 28.14 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.415854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 13.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	16:20:04	1499.99	17.83	6.03	97.95	6.96	28.39	5.62	390.53
Last 5	16:25:04	1800.98	17.83	6.02	98.01	5.61	28.41	5.60	388.64
Last 5	16:30:04	2100.97	17.83	6.04	98.27	4.84	28.41	5.57	388.54
Last 5	16:35:04	2400.96	17.86	6.04	98.29	4.65	28.42	5.56	380.41
Last 5	16:40:04	2700.95	17.83	6.02	98.46	4.09	28.39	5.55	378.63
Variance 0			0.00	0.02	0.26			-0.03	-0.10
Variance 1			0.03	-0.00	0.02			-0.01	-8.13
Variance 2			-0.03	-0.02	0.17			-0.02	-1.78

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 14:26:24

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 38.41 ft

Pump placement from TOC 38.41 ft

Well Information:

Well ID GWC-4
Well diameter 2 in
Well Total Depth 43.41 ft
Screen Length 10 ft
Depth to Water 28.60 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.3864401 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.08 in
Total Volume Pumped 9.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:03:05	1800.00	17.99	6.33	148.92	13.66	29.43	4.47	127.64
Last 5	14:08:05	2100.00	17.98	6.33	149.16	12.39	29.44	4.53	126.99
Last 5	14:13:05	2399.99	18.00	6.33	149.34	10.76	29.44	4.59	126.50
Last 5	14:18:05	2699.99	18.02	6.33	149.32	6.74	29.44	4.60	126.23
Last 5	14:23:05	2999.98	18.12	6.34	149.21	--	--	4.62	125.44
Variance 0			0.01	-0.00	0.18			0.06	-0.49
Variance 1			0.03	-0.00	-0.01			0.01	-0.26
Variance 2			0.09	0.01	-0.11			0.02	-0.80

Notes

FD-1(LF) sampled here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 09:52:03

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-5
Well diameter 2 in
Well Total Depth 34.16 ft
Screen Length 10 ft
Depth to Water 16.98 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 3.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:34:12	600.05	16.63	5.77	913.90	5.75	17.12	3.26	329.43
Last 5	09:39:12	900.00	16.67	5.78	913.08	2.69	17.13	3.23	350.27
Last 5	09:44:12	1199.99	16.83	5.78	916.16	2.41	17.12	3.23	385.87
Last 5	09:49:12	1499.99	16.94	5.78	913.48	1.85	17.13	3.17	435.95
Last 5									
Variance 0			0.04	0.01	-0.82			-0.03	20.85
Variance 1			0.16	0.00	3.08			-0.00	35.60
Variance 2			0.11	0.00	-2.69			-0.05	50.07

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:19:47

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 43 ft

Pump placement from TOC 43 ft

Well Information:

Well ID GWC-6
Well diameter 2 in
Well Total Depth 48.5 ft
Screen Length 10 ft
Depth to Water 35.57 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.4069272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.6 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:00:03	300.05	18.81	6.25	210.16	6.25	35.62	6.41	685.28
Last 5	15:05:03	600.01	18.59	6.26	202.86	4.22	35.59	6.38	681.50
Last 5	15:10:03	900.00	18.46	6.26	198.86	4.02	35.60	6.39	672.27
Last 5	15:15:03	1199.99	18.35	6.25	199.89	4.63	35.62	6.41	661.27
Last 5									
Variance 0			-0.22	0.01	-7.30			-0.03	-3.78
Variance 1			-0.13	0.00	-3.99			0.01	-9.24
Variance 2			-0.10	-0.01	1.02			0.02	-11.00

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 11:07:14

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 53 ft

Pump placement from TOC 53 ft

Well Information:

Well ID GWC-7
Well diameter 2 in
Well Total Depth 58.72 ft
Screen Length 10 ft
Depth to Water 40.29 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4515614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.16 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:50:30	300.06	17.59	6.43	158.68	5.86	40.68	6.78	93.28
Last 5	10:55:30	600.02	17.77	6.39	158.93	5.29	40.72	6.16	84.42
Last 5	11:00:30	900.02	17.65	6.38	158.84	3.85	40.72	6.10	82.92
Last 5	11:05:30	1200.02	17.74	6.38	158.86	3.66	40.72	6.08	82.92
Last 5									
Variance 0			0.17	-0.04	0.25			-0.63	-8.87
Variance 1			-0.11	-0.01	-0.09			-0.06	-1.50
Variance 2			0.09	-0.00	0.02			-0.02	-0.00

Notes

Sampled GWC-7 at 1105. FB-2(LF) here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 10:18:31

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 42.50 ft

Pump placement from TOC 42.50 ft

Well Information:

Well ID GWC-8A
Well diameter 2 in
Well Total Depth 47.50 ft
Screen Length 10 ft
Depth to Water 22.12 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.2796955 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.9 in
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:56:15	300.06	18.50	6.69	499.21	0.25	22.36	0.43	60.04
Last 5	10:01:15	600.02	18.39	6.68	496.85	0.25	22.37	0.35	53.73
Last 5	10:06:15	900.01	18.52	6.68	497.63	0.21	22.36	0.32	48.30
Last 5	10:11:15	1200.01	18.70	6.68	495.06	0.18	22.36	0.31	44.89
Last 5	10:16:15	1500.00	18.74	6.69	493.51	0.33	22.36	0.28	44.34
Variance 0			0.13	0.00	0.79			-0.04	-5.43
Variance 1			0.18	0.00	-2.57			-0.00	-3.40
Variance 2			0.05	0.01	-1.55			-0.03	-0.56

Notes

FD-2(LF) also sampled here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 12:31:13

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 15 ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWC-9
Well diameter 2 in
Well Total Depth 20.25 ft
Screen Length 10 ft
Depth to Water 6.65 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1569514 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.48 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:14:02	300.05	15.86	6.77	209.84	2.18	7.12	2.63	815.73
Last 5	12:19:02	600.01	15.73	6.72	211.33	2.14	7.20	2.45	859.47
Last 5	12:24:02	900.00	15.69	6.70	211.57	1.16	7.20	2.34	881.81
Last 5	12:29:02	1199.99	15.76	6.70	211.00	1.22	7.19	2.28	901.07
Last 5									
Variance 0			-0.13	-0.04	1.50			-0.18	43.74
Variance 1			-0.04	-0.03	0.24			-0.11	22.34
Variance 2			0.08	-0.00	-0.58			-0.06	19.26

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 11:45:48

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 35 ft

Pump placement from TOC 35 ft

Well Information:

Well ID GWC-10
Well diameter 2 in
Well Total Depth 40.63 ft
Screen Length 10 ft
Depth to Water 9.71 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.64 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:27:57	300.05	16.76	6.57	209.13	2.55	9.00	3.95	726.04
Last 5	11:32:57	600.01	16.98	6.55	209.11	1.57	9.91	3.76	745.48
Last 5	11:37:57	900.00	17.16	6.54	206.09	1.09	9.92	3.56	762.10
Last 5	11:42:57	1199.99	17.34	6.53	203.87	0.99	9.93	3.42	776.94
Last 5									
Variance 0			0.22	-0.02	-0.02			-0.18	19.44
Variance 1			0.18	-0.01	-3.02			-0.21	16.62
Variance 2			0.18	-0.01	-2.21			-0.13	14.83

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 10:54:02

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 30 ft

Pump placement from TOC 30 ft

Well Information:

Well ID GWC-11
Well diameter 2 in
Well Total Depth 34.59 ft
Screen Length 10 ft
Depth to Water 16.8 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.36 in
Total Volume Pumped 3.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:35:19	300.06	17.08	6.25	146.38	0.64	16.82	1.27	645.47
Last 5	10:40:19	600.01	17.12	6.23	145.31	0.56	16.83	1.16	668.44
Last 5	10:45:19	900.00	17.11	6.22	146.14	1.02	16.82	1.12	691.90
Last 5	10:50:19	1200.00	17.14	6.22	145.50	0.86	16.83	1.16	709.47
Last 5									
Variance 0			0.04	-0.01	-1.07			-0.11	22.98
Variance 1			-0.01	-0.01	0.83			-0.04	23.45
Variance 2			0.03	0.00	-0.64			0.05	17.57

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:53:19

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 33 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-12
Well diameter 2 in
Well Total Depth 37.82 ft
Screen Length 10 ft
Depth to Water 23.05 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.48 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:36:16	300.02	18.22	5.53	21.41	0.47	23.32	4.05	91.75
Last 5	15:41:16	600.02	17.68	5.27	21.56	0.90	23.34	3.91	92.97
Last 5	15:46:16	900.02	17.62	5.25	21.57	0.68	23.34	4.00	94.63
Last 5	15:51:16	1200.02	17.56	5.25	21.82	0.57	23.34	4.08	95.92
Last 5									
Variance 0			-0.54	-0.26	0.15			-0.13	1.22
Variance 1			-0.07	-0.02	0.01			0.09	1.66
Variance 2			-0.06	0.00	0.25			0.07	1.29

Notes

Sampled GWC-12 at 1550

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:02:04

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 39 ft

Pump placement from TOC 39 ft

Well Information:

Well ID GWC-13
Well diameter 2 in
Well Total Depth 44.2 ft
Screen Length 10 ft
Depth to Water 28.61 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.2640735 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.08 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:40:12	300.03	20.84	6.04	64.81	0.81	28.70	4.60	102.60
Last 5	14:45:12	600.02	19.37	5.89	67.36	0.78	28.70	4.72	97.22
Last 5	14:50:12	900.03	19.24	5.89	67.39	1.16	28.70	4.55	97.12
Last 5	14:55:12	1200.02	18.93	5.89	68.04	0.82	28.70	4.54	97.80
Last 5	15:00:14	1502.02	18.52	5.89	67.74	1.53	28.70	4.77	98.72
Variance 0			-0.13	-0.00	0.03			-0.16	-0.11
Variance 1			-0.31	0.00	0.64			-0.01	0.68
Variance 2			-0.40	-0.00	-0.30			0.23	0.92

Notes

Sampled GWC-13 at 1500

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 13:56:19

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 22 ft

Pump placement from TOC 22 ft

Well Information:

Well ID GWC-14
Well diameter 2 in
Well Total Depth 27.5 ft
Screen Length 10 ft
Depth to Water 11.84 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1881953 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.96 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:39:34	300.03	18.01	5.77	62.08	0.39	11.92	1.81	78.54
Last 5	13:44:34	600.02	17.66	5.65	62.66	0.58	11.92	1.75	78.87
Last 5	13:49:34	900.02	17.72	5.64	62.89	0.54	11.92	1.70	79.76
Last 5	13:54:34	1200.02	17.67	5.63	63.30	0.49	11.92	1.66	80.94
Last 5									
Variance 0			-0.35	-0.12	0.58			-0.06	0.33
Variance 1			0.06	-0.01	0.24			-0.05	0.89
Variance 2			-0.05	-0.01	0.41			-0.04	1.18

Notes

Sampled GWC-14 at 1355

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 11:52:31

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 66 ft

Pump placement from TOC 66 ft

Well Information:

Well ID GWC-18
Well diameter 2 in
Well Total Depth 71.25 ft
Screen Length 10 ft
Depth to Water 33.2 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.5095859 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.48 in
Total Volume Pumped 8.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:30:07	2099.97	18.52	6.37	128.48	6.26	33.75	6.11	468.81
Last 5	11:35:07	2399.96	18.41	6.38	128.49	5.06	33.76	6.13	500.17
Last 5	11:40:07	2699.95	18.38	6.37	128.02	4.13	33.73	6.14	528.90
Last 5	11:45:20	3012.96	18.95	6.37	127.82	3.84	33.73	6.06	561.37
Last 5	11:50:20	3312.94	18.95	6.38	127.31	2.85	33.74	6.06	586.88
Variance 0			-0.04	-0.00	-0.47			0.01	28.73
Variance 1			0.57	-0.01	-0.20			-0.08	32.48
Variance 2			0.00	0.01	-0.52			-0.01	25.51

Notes

FB-1

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 10:03:14

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 58 ft

Pump placement from TOC 58 ft

Well Information:

Well ID GWC-19
Well diameter 2 in
Well Total Depth 62.75 ft
Screen Length 10 ft
Depth to Water 31.8 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.4738785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.8 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:40:32	300.09	17.65	6.43	148.38	1.93	32.35	7.34	278.46
Last 5	09:45:32	600.01	17.57	6.35	146.62	2.00	32.46	7.30	294.62
Last 5	09:50:32	900.00	17.90	6.34	146.56	1.69	32.45	7.17	304.79
Last 5	09:55:32	1199.99	17.78	6.33	146.67	1.53	32.50	7.08	314.17
Last 5	10:00:33	1501.99	18.12	6.35	146.78	1.21	32.45	6.63	320.32
Variance 0			0.34	-0.01	-0.06			-0.13	10.17
Variance 1			-0.12	-0.01	0.11			-0.09	9.39
Variance 2			0.34	0.01	0.11			-0.45	6.14

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-26 15:29:19

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 67.70 ft

Pump placement from TOC 67.70 ft

Well Information:

Well ID GWC-20
Well diameter 2 in
Well Total Depth 72.70 ft
Screen Length 10 ft
Depth to Water 37.54 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5171737 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.32 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:07:51	300.03	18.79	6.58	118.60	19.73	37.90	6.85	122.97
Last 5	15:12:51	600.02	18.52	6.54	118.77	13.72	37.90	6.97	122.39
Last 5	15:17:51	900.01	18.37	6.54	118.84	6.63	37.87	7.09	121.46
Last 5	15:22:51	1200.01	18.26	6.53	118.88	4.43	37.90	7.17	121.07
Last 5	15:27:51	1500.01	18.21	6.52	118.83	3.70	37.90	7.23	120.68
Variance 0			-0.15	-0.01	0.07			0.12	-0.93
Variance 1			-0.11	-0.01	0.04			0.09	-0.40
Variance 2			-0.05	-0.00	-0.06			0.06	-0.39

Notes

Grab Samples

FIELD DATA FORMS

PAC ASH CELL

Product Name: Low-Flow System

Date: 2019-03-27 13:36:26

Project Information:

Operator Name J Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length ft

Pump placement from TOC 15 ft

Well Information:

Well ID GWA-21
Well diameter 2 in
Well Total Depth 20.6 ft
Screen Length 10 ft
Depth to Water 3.01 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.09 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.56 in
Total Volume Pumped 3 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:23:57	300.02	17.21	5.98	144.67	1.41	3.35	2.41	952.32
Last 5	13:28:57	600.01	17.38	5.97	143.67	1.17	3.37	2.40	964.55
Last 5	13:33:57	900.00	17.47	5.97	142.86	1.08	3.39	2.43	969.51
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.18	-0.01	-1.00			-0.01	12.23
Variance 2			0.09	0.00	-0.81			0.03	4.96

Notes

FD-1 PA

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 14:31:46

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 37 ft

Pump placement from TOC 37 ft

Well Information:

Well ID GWA-22
Well diameter 2 in
Well Total Depth 42.5 ft
Screen Length 10 ft
Depth to Water 21.54 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.2551467 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.28 in
Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:14:08	300.02	19.70	6.03	97.28	3.34	21.95	4.48	988.43
Last 5	14:19:08	600.01	19.60	6.03	97.70	2.26	21.98	4.40	983.02
Last 5	14:24:08	900.00	19.58	6.03	97.99	1.86	21.98	4.38	971.17
Last 5	14:29:08	1200.00	19.57	6.04	97.90	1.79	21.98	4.36	958.57
Last 5									
Variance 0			-0.11	0.00	0.42			-0.07	-5.41
Variance 1			-0.01	0.00	0.28			-0.02	-11.85
Variance 2			-0.01	0.00	-0.09			-0.02	-12.60

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 11:33:56

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 31 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWA-45
Well diameter 2 in
Well Total Depth 36.0 ft
Screen Length 10 ft
Depth to Water 12.99 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.04 in
Total Volume Pumped 5.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	11:10:22	600.02	17.22	6.58	416.85	6.38	13.66	1.58	48.53
Last 5	11:15:22	900.01	17.13	6.46	418.29	3.14	13.66	1.48	50.20
Last 5	11:20:22	1200.01	17.25	6.38	417.15	4.04	13.66	1.34	52.22
Last 5	11:25:22	1500.00	17.31	6.34	418.08	2.87	13.66	1.30	54.21
Last 5	11:30:22	1800.00	17.40	6.31	415.86	2.80	13.66	1.25	56.46
Variance 0			0.12	-0.08	-1.14			-0.14	2.03
Variance 1			0.06	-0.05	0.94			-0.04	1.98
Variance 2			0.09	-0.03	-2.22			-0.05	2.25

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 15:01:16

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED SamplePro
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 42 ft

Pump placement from TOC 42 ft

Well Information:

Well ID GWA-46
Well diameter 2 in
Well Total Depth 47 ft
Screen Length 10 ft
Depth to Water 30.26 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4024638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.5 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	14:39:33	300.03	19.32	6.10	76.84	5.31	30.92	2.50	69.47
Last 5	14:44:32	600.02	19.36	6.04	76.94	4.70	30.93	2.43	73.13
Last 5	14:49:32	900.02	19.43	6.00	76.90	3.94	30.95	2.41	77.29
Last 5	14:54:32	1200.01	19.21	5.97	76.90	2.65	30.97	2.39	80.86
Last 5	14:59:32	1500.01	19.23	5.95	76.73	2.65	30.97	2.37	84.35
Variance 0			0.07	-0.04	-0.04			-0.02	4.17
Variance 1			-0.22	-0.03	-0.01			-0.02	3.56
Variance 2			0.02	-0.02	-0.17			-0.01	3.49

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 14:06:12

Project Information:

Operator Name K. Minkara
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type SamplePro
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 51 ft

Pump placement from TOC 51 ft

Well Information:

Well ID GWA-47
Well diameter 2 in
Well Total Depth 56.55 ft
Screen Length 10 ft
Depth to Water 38.85 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.4426346 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.64 in
Total Volume Pumped 21 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:43:21	5102.02	18.81	6.52	122.82	7.03	40.32	3.66	541.71
Last 5	13:48:21	5402.02	18.79	6.52	123.03	6.79	40.32	3.65	557.37
Last 5	13:53:21	5702.02	18.66	6.53	122.68	5.84	40.32	3.66	571.87
Last 5	13:58:21	6002.02	18.79	6.53	122.78	5.17	40.32	3.64	589.07
Last 5	14:03:36	6317.02	18.84	6.52	122.38	4.92	40.32	3.63	602.17
Variance 0			-0.13	0.00	-0.35			0.00	14.50
Variance 1			0.13	-0.00	0.10			-0.02	17.20
Variance 2			0.04	-0.00	-0.40			-0.01	13.10

Notes

Sampled GWA-47 at 1405. FB-1 (PA) here

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 13:55:12

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type QED Well Wizard
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 68.92 ft

Pump placement from TOC 68.92 ft

Well Information:

Well ID GWA-48
Well diameter 2 in
Well Total Depth 73.92 ft
Screen Length 10 ft
Depth to Water 36.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7926192 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 36.48 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	13:32:39	300.03	18.63	7.07	133.00	0.91	39.61	4.34	59.70
Last 5	13:37:39	600.02	19.14	6.95	133.07	0.31	39.30	4.68	60.74
Last 5	13:42:39	900.02	19.05	6.91	133.09	1.89	39.15	4.45	60.72
Last 5	13:47:39	1200.01	19.14	6.87	133.06	1.47	39.15	4.63	61.83
Last 5	13:52:39	1500.00	19.16	6.86	133.13	1.34	39.15	4.73	61.03
Variance 0			-0.09	-0.04	0.02			-0.23	-0.02
Variance 1			0.09	-0.04	-0.03			0.18	1.11
Variance 2			0.02	-0.01	0.07			0.10	-0.81

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 12:34:13

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 36.0 ft

Pump placement from TOC 36.0 ft

Well Information:

Well ID GWA-49
Well diameter 2 in
Well Total Depth 41.0 ft
Screen Length 10 ft
Depth to Water 8.76 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2506832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.64 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	12:11:35	300.03	18.82	6.92	156.74	3.04	9.35	7.00	48.82
Last 5	12:16:35	600.02	18.43	6.93	156.72	1.17	9.42	6.99	48.83
Last 5	12:21:35	900.01	18.53	6.92	156.94	1.22	9.44	6.97	49.90
Last 5	12:26:35	1200.01	18.48	6.91	156.54	1.31	9.43	6.95	51.13
Last 5	12:31:35	1500.00	18.52	6.91	157.29	0.72	9.43	6.95	52.37
Variance 0			0.10	-0.02	0.22			-0.02	1.07
Variance 1			-0.05	-0.00	-0.41			-0.02	1.23
Variance 2			0.03	-0.01	0.75			0.00	1.24

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 10:35:36

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 22.0 ft

Pump placement from TOC 22.0 ft

Well Information:

Well ID GWC-29
Well diameter 2 in
Well Total Depth 27.00 ft
Screen Length 10 ft
Depth to Water 5.36 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.1881953 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:14:04	300.03	15.35	5.93	138.98	0.29	5.52	0.30	110.62
Last 5	10:19:04	600.02	15.30	5.94	139.86	0.49	5.52	0.25	111.36
Last 5	10:24:04	900.02	15.49	5.94	139.46	0.47	5.53	0.23	113.66
Last 5	10:29:04	1200.02	15.62	5.95	139.86	0.53	5.53	0.22	116.82
Last 5	10:34:04	1500.02	15.57	5.95	140.04	0.73	5.53	0.21	120.36
Variance 0			0.18	0.01	-0.40			-0.02	2.30
Variance 1			0.13	0.00	0.40			-0.01	3.16
Variance 2			-0.04	0.00	0.18			-0.02	3.53

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 09:45:37

Project Information:

Operator Name C. Tidwell
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 463453
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type Polyethylene
Tubing Diameter .170 in
Tubing Length 31.0 ft

Pump placement from TOC 31.0 ft

Well Information:

Well ID GWC-50
Well diameter 2 in
Well Total Depth 36.30 ft
Screen Length 10 ft
Depth to Water 8.30 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.2 in
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:22:44	300.06	13.24	5.54	89.44	0.57	8.63	0.62	110.44
Last 5	09:27:44	600.02	14.05	5.64	85.66	0.44	8.65	0.47	105.04
Last 5	09:32:44	900.02	14.34	5.68	85.00	0.84	8.65	0.41	101.74
Last 5	09:37:44	1200.02	14.85	5.69	84.49	1.93	8.65	0.38	100.50
Last 5	09:42:44	1500.02	15.05	5.71	84.36	0.74	8.65	0.39	99.57
Variance 0			0.28	0.04	-0.65			-0.06	-3.30
Variance 1			0.52	0.01	-0.51			-0.03	-1.24
Variance 2			0.20	0.02	-0.13			0.00	-0.92

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-27 15:51:55

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 20 ft

Pump placement from TOC 20 ft

Well Information:

Well ID GWC-51
Well diameter 2 in
Well Total Depth 26.8 ft
Screen Length 10 ft
Depth to Water 8.31 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.1792685 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.6 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	15:29:25	900.05	20.10	6.00	106.57	7.40	8.61	0.19	952.03
Last 5	15:34:25	1200.00	20.11	5.99	106.90	6.32	8.61	0.19	939.25
Last 5	15:39:25	1499.99	20.06	5.95	105.17	4.47	8.61	0.14	896.83
Last 5	15:44:25	1799.98	19.84	5.94	104.83	4.79	8.61	0.13	782.12
Last 5	15:49:25	2099.97	19.77	5.94	104.53	3.81	8.61	0.14	637.73
Variance 0			-0.05	-0.04	-1.73			-0.05	-42.42
Variance 1			-0.22	-0.01	-0.34			-0.01	-114.71
Variance 2			-0.08	0.00	-0.30			0.01	-144.39

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 10:45:56

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 27.5 ft

Pump placement from TOC 27.5 ft

Well Information:

Well ID GWC-52
Well diameter 2 in
Well Total Depth 32.8 ft
Screen Length 10 ft
Depth to Water 8.95 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.2127441 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2.76 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	10:23:53	300.04	17.13	6.71	224.34	1.04	9.17	1.12	261.76
Last 5	10:28:53	600.02	17.49	6.70	224.71	0.89	9.19	0.47	227.33
Last 5	10:33:53	900.00	17.65	6.70	224.30	0.80	9.18	0.25	205.64
Last 5	10:38:53	1200.00	17.84	6.71	224.75	0.69	9.18	0.17	193.60
Last 5	10:43:53	1499.99	18.01	6.71	223.62	0.83	9.18	0.15	188.76
Variance 0			0.16	-0.00	-0.41			-0.22	-21.69
Variance 1			0.19	0.01	0.45			-0.08	-12.04
Variance 2			0.17	0.00	-1.12			-0.02	-4.84

Notes

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 09:51:09

Project Information:

Operator Name J. Quenneville
Company Name Golder
Project Name 166235018
Site Name Plant Scherer
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 364455
Turbidity Make/Model LaMotte

Pump Information:

Pump Model/Type Alexis Peristaltic
Tubing Type polyethylene
Tubing Diameter .170 in
Tubing Length 27.5 ft

Pump placement from TOC 27.5 ft

Well Information:

Well ID GWC-53
Well diameter 2 in
Well Total Depth 32.8 ft
Screen Length 10 ft
Depth to Water 9.44 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 0.2127441 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.92 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 10
Last 5	09:28:13	300.03	13.98	6.18	508.42	0.64	9.83	0.56	284.36
Last 5	09:33:13	600.01	14.39	5.78	503.55	0.77	9.84	0.48	272.78
Last 5	09:38:13	900.01	14.56	5.71	504.18	0.88	9.84	0.43	268.84
Last 5	09:43:13	1200.00	14.73	5.67	506.99	0.71	9.85	0.36	264.63
Last 5	09:48:13	1499.99	14.83	5.67	503.88	0.61	9.85	0.36	261.71
Variance 0			0.17	-0.07	0.63			-0.05	-3.94
Variance 1			0.17	-0.04	2.81			-0.07	-4.21
Variance 2			0.11	-0.00	-3.11			-0.00	-2.92

Notes

FD-2 pa

Grab Samples

APPENDIX A

DATA VALIDATION SUMMARIES

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates Inc. Project Manager: Dawn Prell
 Project Name: SCS Plant Scherer Project Number: 166235018
 Validator: Carolyn Powrozek Validation Date: 04/30/2019
 Reviewed by: Julie Lehrman Review Date: 05/16/2019
 Laboratory: TestAmerica Pittsburgh SDG #: 180-88203-1
 Analytical Method (type and no.): Total Metals via USEPA SW-846 Method 6020; Total Mercury via USEPA SW-846 Method 7470A; Anions (Chloride, Fluoride, Sulfate) via USEPA 300.0; Total Dissolved Solids (TDS) via SM 2540C
 Matrix: Air Soil/Sed. Water Waste Other _____

Work Plan or QAPP reference: Not applicable

Applicable Data Validation Guidance: Southern Company Services, Inc. Standard Operating Procedure for Level 2A Verification of Coal Combustion Residuals Data (November 2017)

Field/COC Information

	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grab _____
e) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FB, EB, FD _____
f) Field parameters collected (note types)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
g) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
h) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
i) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
j) Was the sample cooler temperature within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Laboratory Case Narrative

a) Does the laboratory narrative indicate deficiencies? _____

Note Deficiencies:

- LCS or LCSD is outside acceptance limits
- MS, MSD: The analyte present in the original sample is greater than 4 times the MS concentration; therefore, control limits are not applicable
- MS and/or MSD recovery is outside acceptance limits

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Were appropriate reporting limits achieved?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
e) Were any sample dilutions noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 1 _____
f) Were any matrix problems noted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Blanks	YES	NO	NA	COMMENTS
a) Were analytes detected in the method blank(s)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
b) Were analytes detected in the field blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
c) Were analytes detected in the equipment blank(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Note 2 _____
d) Were analytes detected in the trip blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
e) Were analytes detected in the storage blank(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Laboratory Control Sample	YES	NO	NA	COMMENTS
a) Was a LCS analyzed once per SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were the proper compounds included in the LCS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the LCS accuracy criteria met?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Per SOP, See Note 3 _____
Matrix Spike/Matrix Spike Duplicate	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
b) Was MSD accuracy criteria met (note %R)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 4 _____
Recovery could not be calculated since sample contained high concentration of analyte?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
c) Were MS/MSD precision criteria met (20%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Duplicates	YES	NO	NA	COMMENTS
a) Were field duplicates collected (note original and duplicate sample names)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Table 1 _____
b) Were field dup. precision criteria met (20%)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Note 5 _____
c) Were lab duplicates analyzed (note original and duplicate samples)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	180-88290-8 DU = FD-2(LF) _____
d) Were lab dup. precision criteria met (%)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
ICP Serial Dilution (SD)	YES	NO	NA	COMMENTS
a) Was a ICP SD analyzed once per SDG?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Data not provided in Level II report
b) Was the ICP SD criteria met?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Lab narrative did not identify SD deficiencies

Comments/Notes:

1. Metals via method 6020 were analyzed at a dilution factor of 5 to bring sample concentrations within the instrument calibration range. The guidelines do not require qualification based on dilution, but the end user is alerted that the sensitivity of non-detect results should be considered as part of determining data usability. Since the reporting limits were not raised, qualifiers are not necessary for this SDG.
2. Target analytes were detected in the equipment and field blanks as shown in the table below. When contamination was found in more than one blank associated with a given sample, the blank with the highest concentration was used to qualify the results.

Following the Validation SOP for inorganic parameters, when associated detected sample results were below 5x the blank concentration and below the RL, the results were qualified as non-detect (U) and the MDL was raised to the sample result. When the detected sample results were below 5x the blank concentration and above the RL, the results were qualified as non-detect (U) and both the MDL and RL were raised to the sample result. When the associated sample results were greater than 5x the blank concentration, qualification was not required.

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

SDG	Sample Name	Blank Type	Method	Analyte	Blank Result	RL	Units	Dilution
180-88203-1	EB-1 (LF)	Equipment	6020	Vanadium	0.0025	0.0025	mg/L	5
180-88203-1	EB-2 (LF)	Equipment	6020	Vanadium	0.0024 J	0.0025	mg/L	5
180-88203-1	FB-1 (LF)	Field	6020	Vanadium	0.0026	0.0025	mg/L	5
180-88203-1	FB-2 (LF)	Field	6020	Vanadium	0.0033	0.0025	mg/L	5

3. Lab noted LCS recoveries were outside QC criteria. However, following the SOP, the recoveries were within QC criteria, as shown in the table below. Therefore, no qualifications were necessary.

Sample Name	Parameter	Analyte	LCS Recovery (%)	Lab Recovery Criteria (%)	SOP Recovery Criteria (%)
400-435839/2-A	Metals	Silver	122	80-120	70-130

4. The laboratory flagged certain matrix spike recoveries in the metals analysis. In addition, MS/MSD recoveries were outside QC criteria, as shown in the table below for project-specific samples only. Following the Validation SOP, any qualifications resulting from MS/MSD deficiencies were applied to samples analyzed in the same batch. When the initial sample result exceeded 4x the added spike concentration, no qualification was required. When MS/MSD recoveries are above the upper limits, then detected sample results were J+ qualified. No qualification necessary for "non-detect results".

Parent Sample Name	Method	Analyte	MS/MSD Recovery (%)	RPD (%)	QC Limits (%)
180-88290-1 (GWC-5)	6020	Boron	134 / 125	2	75-125 / 20
180-88290-1 (GWC-5)	6020	Calcium*	116 / 370	14	75-125 / 20

*Initial sample concentration exceeded 4x the matrix spike added

5. Field duplicate RPDs were above the QC criteria, as shown in the table below. RPDs were calculated for non-detect results using reporting limits. Following Guidelines for inorganics, when the both the primary and field duplicate results were greater than 5x the RL and the RPD was greater than QC criteria, associated results were qualified as estimated (J). **When either sample result was less than 5x the RL and the difference between the results was less than the RL, qualification was not required.** When the difference between the results was greater than the RL, associated results were qualified as estimated (J/UJ).

Primary/FD Sample ID	Analyte	RPD (%)	Primary / FD Result	Primary/Field Duplicate RL	Units	Difference > RL (Yes/No)	Qualifier (Yes/No)
GWC-4 /FD-1 (LF)	Cobalt	54	0.00096 / 0.00055	0.0025	mg/L	No	No
GWC-4 /FD-1 (LF)	Copper	47	0.0039 / 0.0024	0.0025	mg/L	No	No
GWC-4 /FD-1 (LF)	Nickel	40	0.0036 / 0.0024	0.0025	mg/L	No	No
GWC-8A /FD-2 (LF)	Arsenic	36	0.0012 / 0.00083	0.0013	mg/L	No	No

Data Qualification: See Table 1.

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Definitions:

SDG: Sample Delivery Group

COC: Chain of Custody

LCS: Laboratory Control Sample

MS/MSD: Matrix Spike/Matrix Spike Duplicate

MDL: Method Detection Limit

%R: Percent Recovery

QC: Quality Control

QAPP: Quality Assurance Project Plan

QC: Quality Control

RPD: Relative Percent Difference

CRDL: Contract Required Quantitation Limit

CRQL: Reporting Limit

TABLE 1

**Qualifier Summary Table
SCS Plant Scherer**

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>New MDL/MDC</i>	<i>Qualifier</i>	<i>Reason</i>
180-88203-1	GWA-16	Vanadium	-	0.007	0.007	U	field and equipment blank contamination
180-88203-1	GWA-17	Vanadium	-	0.0051	0.0051	U	field and equipment blank contamination
180-88203-1	GWC-2	Vanadium	-	0.016	0.016	U	field and equipment blank contamination
180-88203-1	GWC-3	Vanadium	-	0.0076	0.0076	U	field and equipment blank contamination
180-88203-1	GWC-4	Vanadium	-	0.011	0.011	U	field and equipment blank contamination
180-88203-1	GWC-6	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	GWC-12	Vanadium	-	0.0029	0.0029	U	field and equipment blank contamination
180-88203-1	GWC-13	Vanadium	-	0.0041	0.0041	U	field and equipment blank contamination
180-88203-1	GWC-14	Vanadium	-	0.0034	0.0034	U	field and equipment blank contamination
180-88203-1	GWC-18	Vanadium	-	0.0094	0.0094	U	field and equipment blank contamination
180-88203-1	GWC-19	Vanadium	-	0.0094	0.0094	U	field and equipment blank contamination
180-88203-1	FD-1 (LF)	Vanadium	-	0.01	0.01	U	field and equipment blank contamination
180-88203-1	GWC-5	Vanadium	-	-	0.0024	U	field and equipment blank contamination
180-88203-1	GWC-7	Vanadium	-	0.013	0.013	U	field and equipment blank contamination
180-88203-1	GWC-8A	Vanadium	-	0.003	0.003	U	field and equipment blank contamination
180-88203-1	GWC-10	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	GWC-11	Vanadium	-	0.012	0.012	U	field and equipment blank contamination
180-88203-1	FD-2 (LF)	Vanadium	-	0.0035	0.0035	U	field and equipment blank contamination
180-88203-1	GWC-5	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	GWC-8A	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	GWC-9	Boron	-	-	-	J+	MS/MSD outside criteria
180-88203-1	FD-2 (LF)	Boron	-	-	-	J+	MS/MSD outside criteria

Abbreviations:

MDC : Minimum Detectable Concentration
MDL: Method Detection Limit
MS/MSD: Matrix Spike/Matrix Spike Duplicate
RL : Reporting limit
SDG : Sample delivery group

Qualifiers:

J+ : Estimated result, biased high
U : Non-detect result

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates Inc. Project Manager: Dawn Prell
 Project Name: SCS Plant Scherer Project Number: 166235018
 Validator: Carolyn Powrozek Validation Date: 04/30/2019
 Reviewed by: Julie Lehrman Review Date: 05/16/2019
 Laboratory: TestAmerica Pittsburgh SDG #: 180-88291-1
 Analytical Method (type and no.): Total Metals via USEPA SW-846 Method 6020; Total Mercury via USEPA SW-846 Method 7470A; Anions (Chloride, Fluoride, Sulfate) via USEPA 300.0; Total Dissolved Solids (TDS) via SM 2540C
 Matrix: Air Soil/Sed. Water Waste Other _____

Work Plan or QAPP reference: Not applicable

Applicable Data Validation Guidance: Southern Company Services, Inc. Standard Operating Procedure for Level 2A Verification of Coal Combustion Residuals Data (November 2017)

Field/COC Information

	YES	NO	NA	COMMENTS
a) Sampling dates noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Sampling team indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Sample location noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
d) Sample type indicated (grab/composite)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grab _____
e) Field QC noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FB, EB, FD _____
f) Field parameters collected (note types)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
g) Was the COC signed by both field and laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
h) Were samples received in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
i) Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
j) Was the sample cooler temperature within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Laboratory Case Narrative

a) Does the laboratory narrative indicate deficiencies? _____

Note Deficiencies:

- MS, MSD: The analyte present in the original sample is greater than 4 times the MS concentration; therefore, control limits are not applicable (4)
- Compound was found in the blank and sample (B)

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
b) Were hold times met for sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
c) Was the correct method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

QA LEVEL IIA – INORGANIC DATA EVALUATION CHECKLIST

(U) and both the MDL and RL were raised to the sample result. When the associated sample results were greater than 5x the blank concentration, qualification was not required.

SDG	Sample Name	Blank Type	Method	Analyte	Blank Result	RL	Units	Dilution
180-88291-1	MB400-435792/1-A^5	Method	6020	Vanadium	0.00311	0.0025	mg/L	5
180-88291-1	FB-1 (PA)	Field	6020	Vanadium	0.0036	0.0025	mg/L	5
180-88291-1	FB-2 (PA)	Field	6020	Vanadium	0.0024	0.0025	mg/L	5
180-88291-1	EB-2 (PA)	Equipment	6020	Vanadium	0.0034	0.0025	mg/L	5

3. The laboratory flagged certain matrix spike recoveries in the metals analysis as not meeting QC limits. Recoveries outside QC criteria are shown in the table below for project-specific samples. Following the Validation SOP, any qualifications resulting from MS/MSD deficiencies were applied to samples analyzed in the same batch. When the initial sample result exceeded 4x the added spike concentration, no qualification was required.

Parent Sample Name	Method	Analyte	MS/MSD Recovery (%)	RPD (%)	QC Limits (%)
180-88348-2 (GWC-53)	6020	Sulfate*	94 / 35	8	80-120 / 20

*Initial sample concentration exceeded 4x the matrix spike added

4. Field duplicate RPDs were above the QC criteria, as shown in the table below. RPDs were calculated for non-detect results using reporting limits. Following Guidelines for inorganics, when the both the primary and field duplicate results were greater than 5x the RL and the RPD was greater than QC criteria, associated results were qualified as estimated (J). **When either sample result was less than 5x the RL and the difference between the results was less than the RL, qualification was not required.** When the difference between the results was greater than the RL, associated results were qualified as estimated (J/UJ).

Primary/FD Sample ID	Analyte	RPD (%)	Primary / FD Result	Primary/Field Duplicate RL	Units	Difference > RL (Yes/No)	Qualifier (Yes/No)
GWA-21 /FD-1 (PA)	Fluoride	35	0.0035 J / 0.05 J	0.2	mg/L	No	No
GWA-21 /FD-1 (PA)	Sulfate	30	0.81 J / 1.1	1	mg/L	No	No
GWC-53 /FD-2 (PA)	Vanadium	34	0.0041 / 0.0029	0.0025	mg/L	No	No

Data Qualification: See Table 1.

Definitions:

SDG: Sample Delivery Group

COC: Chain of Custody

LCS: Laboratory Control Sample

MS/MSD: Matrix Spike/Matrix Spike Duplicate

MDL: Method Detection Limit

%R: Percent Recovery

QC: Quality Control

QAPP: Quality Assurance Project Plan

QC: Quality Control

RPD: Relative Percent Difference

CRDL: Contract Required Quantitation Limit

CRQL: Reporting Limit

TABLE 1

**Qualifier Summary Table
SCS Plant Scherer**

<i>SDG</i>	<i>Sample Name</i>	<i>Constituent</i>	<i>New Result</i>	<i>New RL</i>	<i>New MDL/MDC</i>	<i>Qualifier</i>	<i>Reason</i>
180-88291-1	GWA-45	Vanadium	-	-	0.0023	U	method, field and equipment blank contamination
180-88291-1	GWA-21	Vanadium	-	0.0072	0.0072	U	method, field and equipment blank contamination
180-88291-1	GWA-47	Vanadium	-	0.012	0.012	U	method, field and equipment blank contamination
180-88291-1	GWA-22	Vanadium	-	0.0071	0.0071	U	method, field and equipment blank contamination
180-88291-1	GWA-46	Vanadium	-	0.0072	0.0072	U	method, field and equipment blank contamination
180-88291-1	GWA-51	Vanadium	-	0.0087	0.0087	U	method, field and equipment blank contamination
180-88291-1	FD-1 (PA)	Vanadium	-	0.0066	0.0066	U	method, field and equipment blank contamination
180-88291-1	GWC-50	Vanadium	-	0.0053	0.0053	U	field and equipment blank contamination
180-88291-1	GWC-53	Vanadium	-	0.0041	0.0041	U	field and equipment blank contamination
180-88291-1	GWC-29	Vanadium	-	0.0079	0.0079	U	field and equipment blank contamination
180-88291-1	GWC-52	Vanadium	-	0.01	0.01	U	field and equipment blank contamination
180-88291-1	FD-2 (PA)	Vanadium	-	0.0029	0.0029	U	field and equipment blank contamination

Abbreviations:

MDC : Minimum Detectable Concentration
MDL: Method Detection Limit
RL : Reporting limit
SDG : Sample delivery group

Qualifiers:

U : Non-detect result

APPENDIX B

STATISTICAL ANALYSES REPORTS

STATISTICAL ANALYSES REPORTS

CELL 1

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 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>Transform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWC-8A	44.85	n/a	3/27/2019	47	Yes	10	0	No	0.01	Param Intra
Sulfate (mg/L)	GWA-15	1.2	n/a	3/26/2019	2.1	Yes	11	72.73	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-10	1.2	n/a	3/27/2019	1.6	Yes	11	27.27	n/a	0.08333	NP Intra (normality)
Sulfate (mg/L)	GWC-13	0.646	n/a	3/26/2019	1.3	Yes	11	81.82	n/a	0.08333	NP Intra (NDs)
Total Dissolved Solids (mg/L)	GWC-8A	239.7	n/a	3/27/2019	300	Yes	9	0	No	0.01	Param Intra

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	GWA-15	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWA-16	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWA-17	0.05	n/a	3/26/2019	0.0105ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-1	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-10	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-11	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-12	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-13	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-14	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-18	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-19	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-2	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-20	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-3	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-4	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-5	0.6067	n/a	3/27/2019	0.33	No	10	0	No	0.01	Param Intra
Boron (mg/L)	GWC-6	0.021	n/a	3/26/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-7	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Boron (mg/L)	GWC-8A	0.3641	n/a	3/27/2019	0.16	No	10	0	No	0.01	Param Intra
Boron (mg/L)	GWC-9	0.1352	n/a	3/27/2019	0.067	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-15	5.687	n/a	3/26/2019	4	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-16	15.11	n/a	3/26/2019	11	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWA-17	8.772	n/a	3/26/2019	6.7	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-1	21.14	n/a	3/26/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-10	20.3	n/a	3/27/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-11	15.33	n/a	3/27/2019	12	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-12	1.454	n/a	3/26/2019	1.1	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-13	7.782	n/a	3/26/2019	6.3	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-14	7.708	n/a	3/26/2019	6.4	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-18	12.39	n/a	3/26/2019	9.6	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-19	13.55	n/a	3/26/2019	11	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-2	21.39	n/a	3/26/2019	17	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-20	16.46	n/a	3/26/2019	12	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-3	10.99	n/a	3/26/2019	7.3	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-4	17.29	n/a	3/26/2019	13	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-5	219.9	n/a	3/27/2019	75	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-6	21.37	n/a	3/26/2019	16	No	11	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-7	16.72	n/a	3/27/2019	14	No	11	0	ln(x)	0.01	Param Intra
Calcium (mg/L)	GWC-8A	44.85	n/a	3/27/2019	47	Yes	10	0	No	0.01	Param Intra
Calcium (mg/L)	GWC-9	20.34	n/a	3/27/2019	16	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWA-15	6.3	n/a	3/26/2019	5.5	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWA-16	2.193	n/a	3/26/2019	1.5	No	11	0	sqrt(x)	0.01	Param Intra
Chloride (mg/L)	GWA-17	2.005	n/a	3/26/2019	1.3	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-1	4.633	n/a	3/26/2019	3.6	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-10	2.676	n/a	3/27/2019	2.4	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-11	2.089	n/a	3/27/2019	1.5	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-12	2	n/a	3/26/2019	1.7	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWC-13	2.056	n/a	3/26/2019	1.6	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-14	3.344	n/a	3/26/2019	2.5	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-18	2.724	n/a	3/26/2019	2.7	No	11	0	No	0.01	Param Intra

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Chloride (mg/L)	GWC-19	1.9	n/a	3/26/2019	1.8	No	11	0	n/a	0.08333	NP Intra (normality)
Chloride (mg/L)	GWC-2	2.612	n/a	3/26/2019	1.9	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-20	2.322	n/a	3/26/2019	1.9	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-3	3.828	n/a	3/26/2019	3	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-4	17.47	n/a	3/26/2019	9.2	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-5	137.9	n/a	3/27/2019	42	No	11	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-6	8.837	n/a	3/26/2019	4.2	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-7	1.8	n/a	3/27/2019	1.7	No	9	0	n/a	0.1	NP Intra (normality)
Chloride (mg/L)	GWC-8A	8.636	n/a	3/27/2019	6.6	No	10	0	No	0.01	Param Intra
Chloride (mg/L)	GWC-9	4.533	n/a	3/27/2019	3	No	11	0	No	0.01	Param Intra
Fluoride (mg/L)	GWA-15	0.15	n/a	3/26/2019	0.013ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWA-16	0.15	n/a	3/26/2019	0.041	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWA-17	0.15	n/a	3/26/2019	0.042	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-1	0.1	n/a	3/26/2019	0.072	No	11	45.45	n/a	0.08333	NP Intra (Cohens/xform)
Fluoride (mg/L)	GWC-10	0.1	n/a	3/27/2019	0.077	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-11	0.1	n/a	3/27/2019	0.048	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-12	0.15	n/a	3/26/2019	0.026	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-13	0.15	n/a	3/26/2019	0.04	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-14	0.15	n/a	3/26/2019	0.034	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-18	0.15	n/a	3/26/2019	0.046	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-19	0.15	n/a	3/26/2019	0.04	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-2	0.15	n/a	3/26/2019	0.046	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-20	0.15	n/a	3/26/2019	0.045	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-3	0.1	n/a	3/26/2019	0.046	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-4	0.1528	n/a	3/26/2019	0.087	No	11	0	x^2	0.01	Param Intra
Fluoride (mg/L)	GWC-5	0.15	n/a	3/27/2019	0.038	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-6	0.15	n/a	3/26/2019	0.058	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-7	0.12	n/a	3/27/2019	0.04	No	11	81.82	n/a	0.08333	NP Intra (NDs)
Fluoride (mg/L)	GWC-8A	0.2336	n/a	3/27/2019	0.071	No	10	0	No	0.01	Param Intra
Fluoride (mg/L)	GWC-9	0.1	n/a	3/27/2019	0.066	No	11	72.73	n/a	0.08333	NP Intra (NDs)
pH (S.U.)	GWA-15	5.788	5.208	3/26/2019	5.41	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWA-16	6.617	6.149	3/26/2019	6.42	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWA-17	6.425	5.508	3/26/2019	6.12	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-1	6.814	6.22	3/26/2019	6.54	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-10	6.718	5.935	3/27/2019	6.53	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-11	6.413	5.924	3/27/2019	6.22	No	14	0	No	0.005	Param Intra
pH (S.U.)	GWC-12	5.513	4.766	3/26/2019	5.25	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-13	6.02	5.6	3/26/2019	5.89	No	16	0	n/a	0.1176	NP Intra (normality)
pH (S.U.)	GWC-14	5.906	5.29	3/26/2019	5.63	No	14	0	No	0.005	Param Intra
pH (S.U.)	GWC-18	6.499	6.117	3/26/2019	6.38	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-19	6.466	6.311	3/26/2019	6.371	No	14	0	No	0.005	Param Intra Deseas
pH (S.U.)	GWC-2	7	6.35	3/26/2019	6.44	No	14	0	n/a	0.1333	NP Intra (normality)
pH (S.U.)	GWC-20	6.713	6.285	3/26/2019	6.52	No	15	0	x^3	0.005	Param Intra
pH (S.U.)	GWC-3	6.149	5.699	3/26/2019	6.02	No	15	0	No	0.005	Param Intra
pH (S.U.)	GWC-4	6.609	5.849	3/26/2019	6.34	No	15	0	x^5	0.005	Param Intra
pH (S.U.)	GWC-5	6.14	5.55	3/27/2019	5.78	No	15	0	n/a	0.125	NP Intra (normality)
pH (S.U.)	GWC-6	6.36	6.09	3/26/2019	6.25	No	15	0	n/a	0.125	NP Intra (normality)
pH (S.U.)	GWC-7	6.42	5.96	3/27/2019	6.38	No	14	0	n/a	0.1333	NP Intra (normality)
pH (S.U.)	GWC-8A	7.26	6.24	3/27/2019	6.69	No	18	0	n/a	0.1053	NP Intra (normality)
pH (S.U.)	GWC-9	6.832	6.353	3/27/2019	6.644	No	15	0	No	0.005	Param Intra Deseas

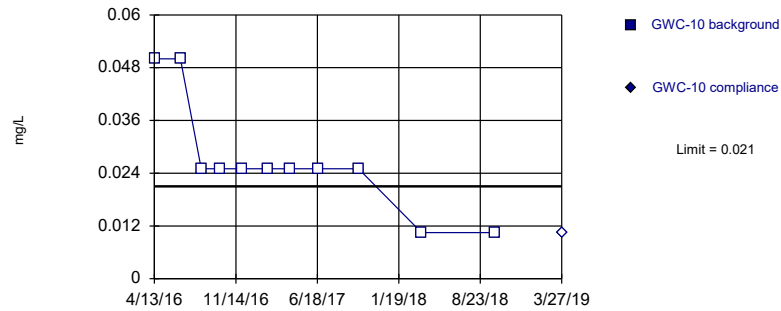
Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 3:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Sulfate (mg/L)	GWA-15	1.2	n/a	3/26/2019	2.1	Yes	11	72.73	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWA-16	0.7	n/a	3/26/2019	0.19ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWA-17	0.7	n/a	3/26/2019	0.58	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-1	1	n/a	3/26/2019	0.53	No	11	54.55	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-10	1.2	n/a	3/27/2019	1.6	Yes	11	27.27	n/a	0.08333	NP Intra (normality)
Sulfate (mg/L)	GWC-11	0.5	n/a	3/27/2019	0.19ND	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-12	0.5	n/a	3/26/2019	0.49	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-13	0.646	n/a	3/26/2019	1.3	Yes	11	81.82	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-14	0.5	n/a	3/26/2019	0.64	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-18	0.7	n/a	3/26/2019	0.39	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-19	0.7	n/a	3/26/2019	0.19ND	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-2	0.56	n/a	3/26/2019	0.99	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-20	0.7	n/a	3/26/2019	0.45	No	11	100	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-3	1.1	n/a	3/26/2019	0.47	No	11	72.73	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-4	6.692	n/a	3/26/2019	3.2	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-5	647.8	n/a	3/27/2019	260	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-6	17.91	n/a	3/26/2019	6.3	No	11	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-7	0.5	n/a	3/27/2019	0.51	No	11	90.91	n/a	0.08333	NP Intra (NDs)
Sulfate (mg/L)	GWC-8A	47.2	n/a	3/27/2019	18	No	10	0	No	0.01	Param Intra
Sulfate (mg/L)	GWC-9	18.43	n/a	3/27/2019	6.8	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-15	76.84	n/a	3/26/2019	45	No	11	9.091	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-16	167	n/a	3/26/2019	100	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWA-17	148.9	n/a	3/26/2019	82	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-1	169.2	n/a	3/26/2019	150	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-10	179	n/a	3/27/2019	140	No	10	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-11	293	n/a	3/27/2019	100	No	11	0	n/a	0.08333	NP Intra (normality)
Total Dissolved Solids (mg/L)	GWC-12	110	n/a	3/26/2019	29	No	11	36.36	n/a	0.08333	NP Intra (Cohens/xform)
Total Dissolved Solids (mg/L)	GWC-13	120.4	n/a	3/26/2019	59	No	10	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-14	112.8	n/a	3/26/2019	60	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-18	128.7	n/a	3/26/2019	94	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-19	146.4	n/a	3/26/2019	100	No	11	0	x^2	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-2	202.5	n/a	3/26/2019	130	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-20	151.7	n/a	3/26/2019	110	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-3	116.4	n/a	3/26/2019	86	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-4	172.9	n/a	3/26/2019	130	No	10	0	ln(x)	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-5	1510	n/a	3/27/2019	580	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-6	189.6	n/a	3/26/2019	130	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-7	163.5	n/a	3/27/2019	120	No	11	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-8A	239.7	n/a	3/27/2019	300	Yes	9	0	No	0.01	Param Intra
Total Dissolved Solids (mg/L)	GWC-9	220.8	n/a	3/27/2019	140	No	11	0	x^2	0.01	Param Intra

Within Limit

Prediction Limit
Intrawell Non-parametric

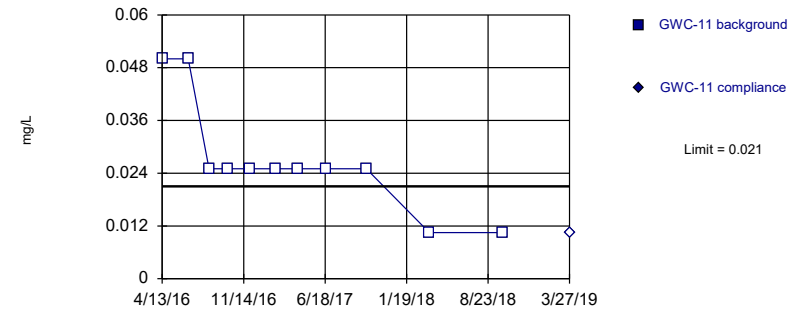


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

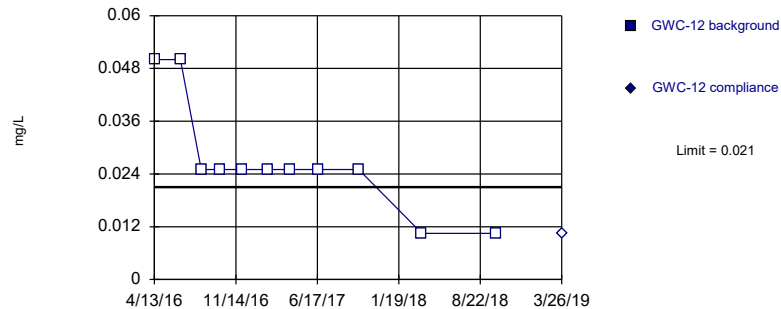


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

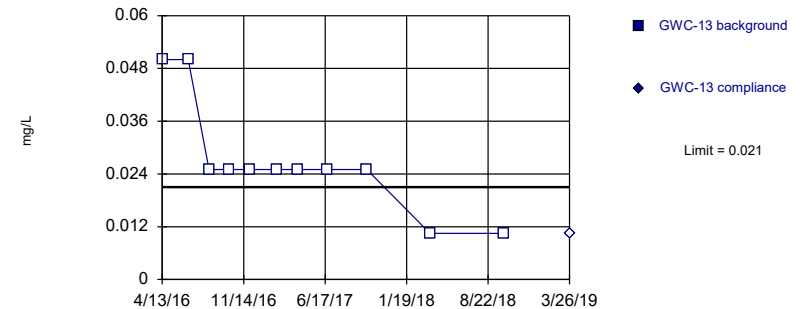


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

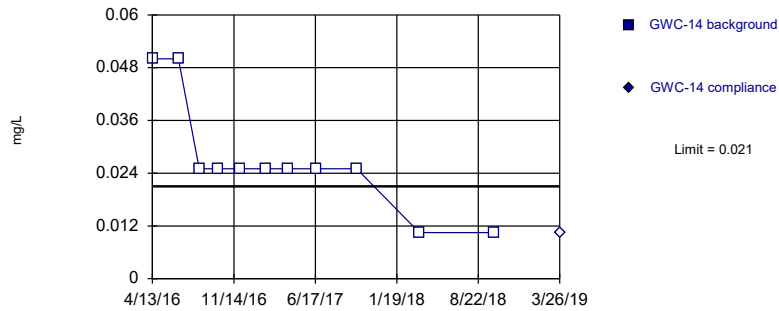


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

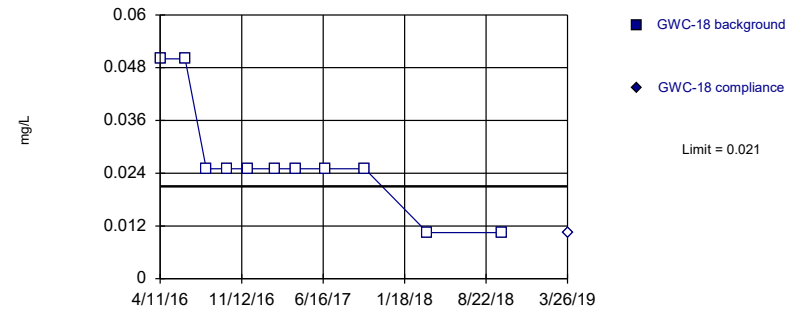


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

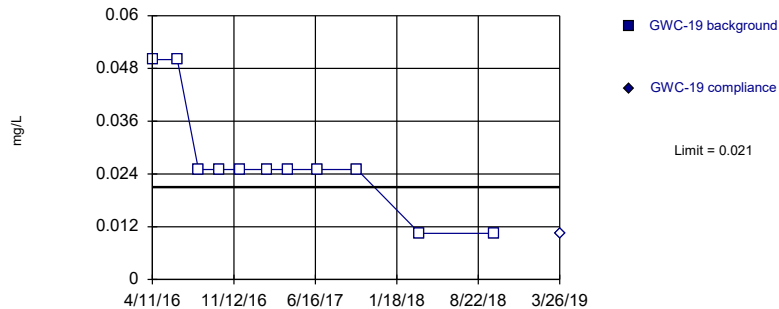


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

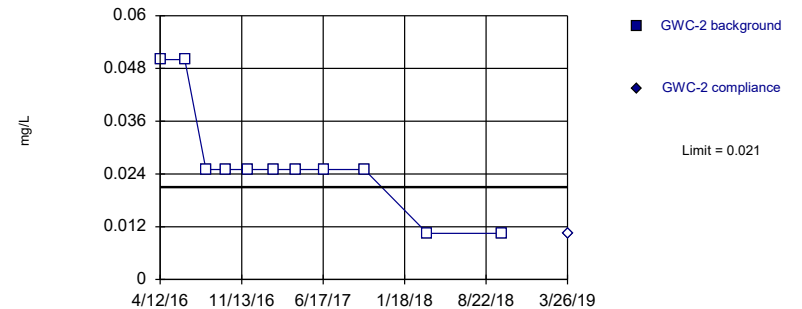


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

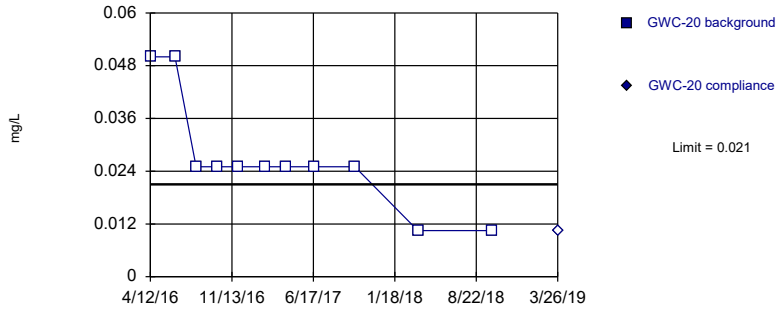


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

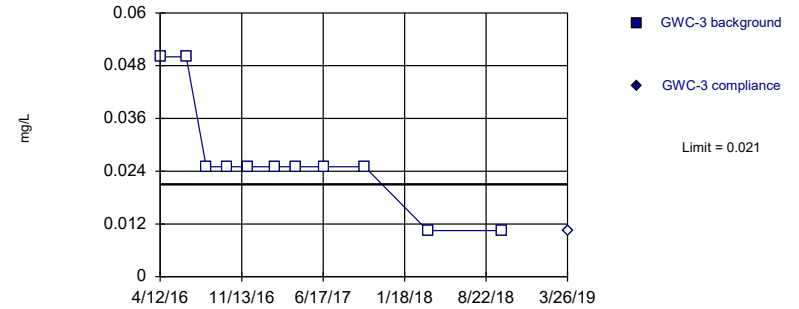


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

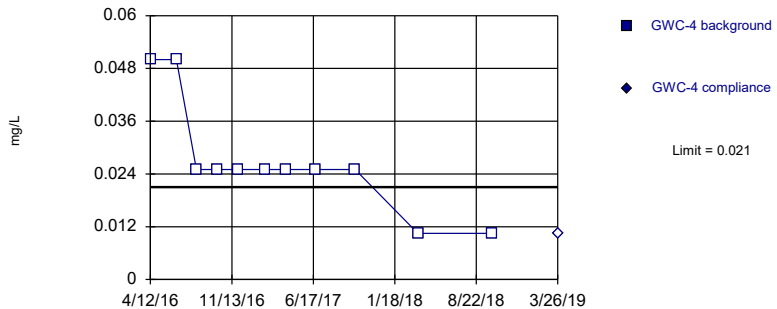


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

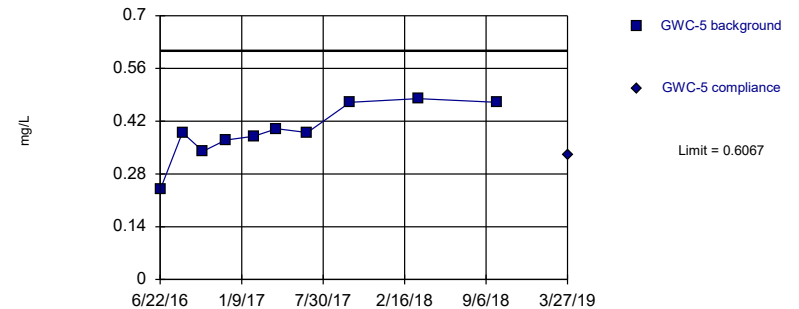


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

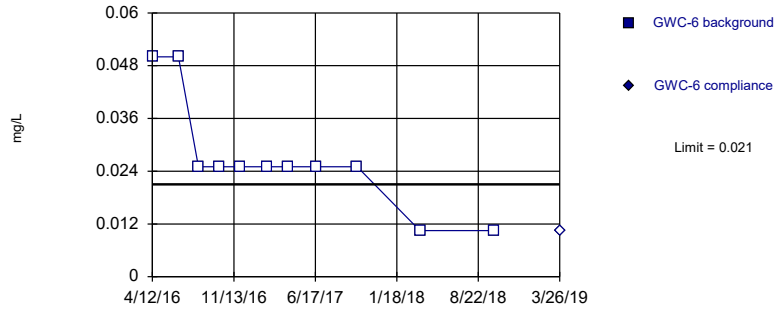
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.3928, Std. Dev.=0.07228, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8982, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

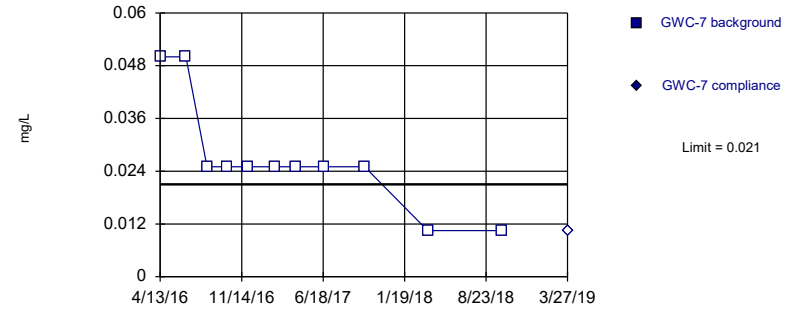
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

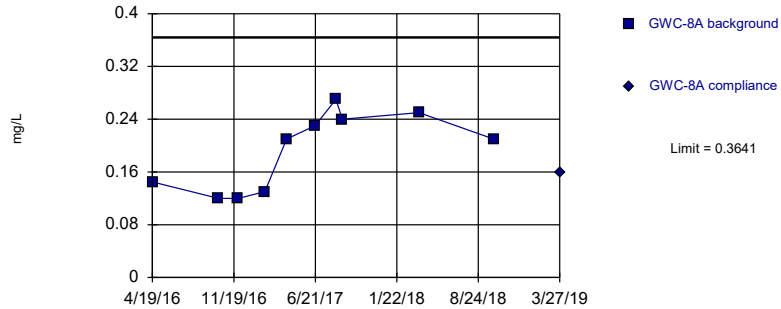
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

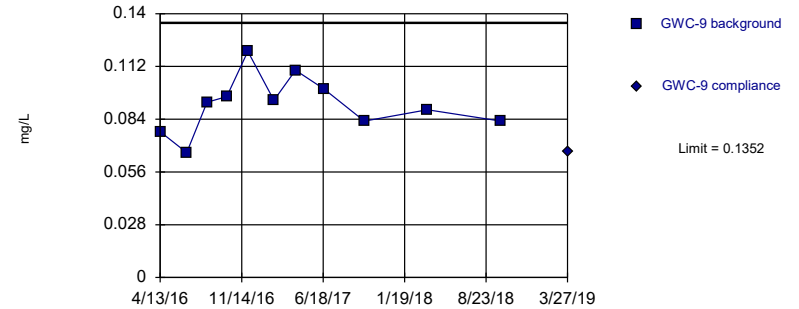
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.1925, Std. Dev.=0.05799, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.876, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

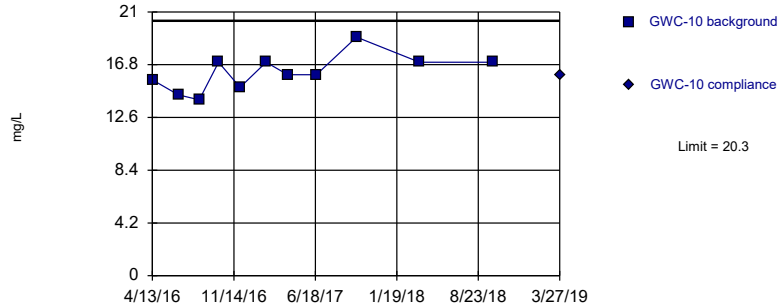
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.09197, Std. Dev.=0.01496, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9843, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 7/25/2019 3:03 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

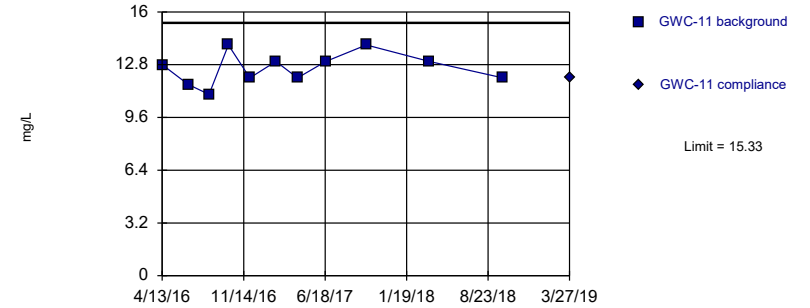
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=16.18, Std. Dev.=1.427, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9441, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

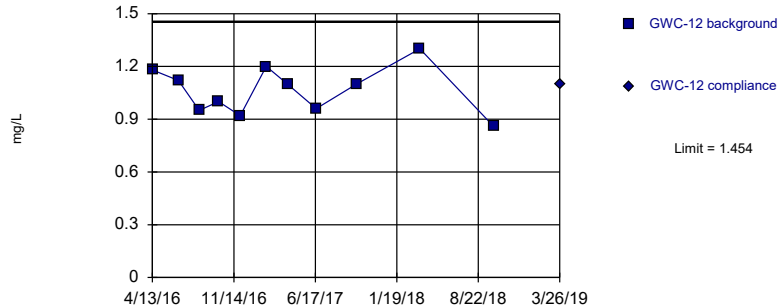
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=12.58, Std. Dev.=0.9527, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9357, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

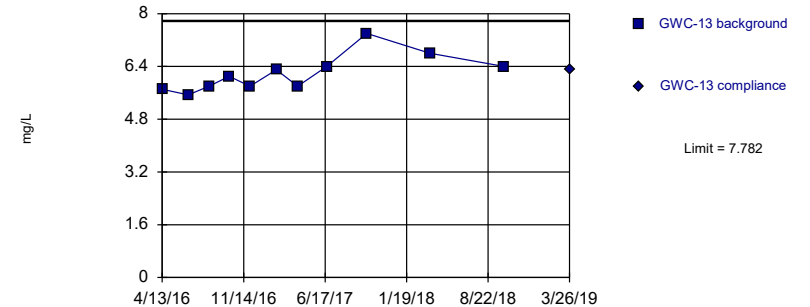
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.063, Std. Dev.=0.1355, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9655, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

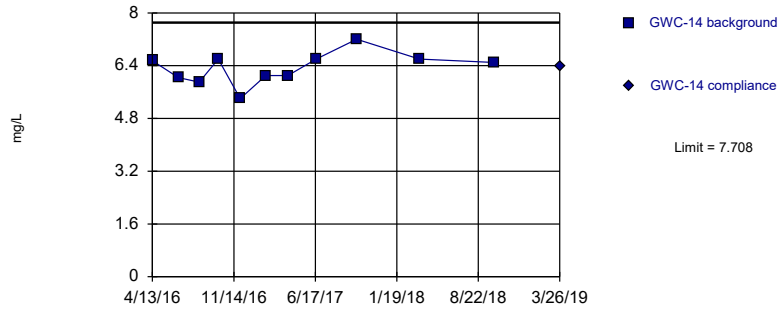
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.186, Std. Dev.=0.5526, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9015, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

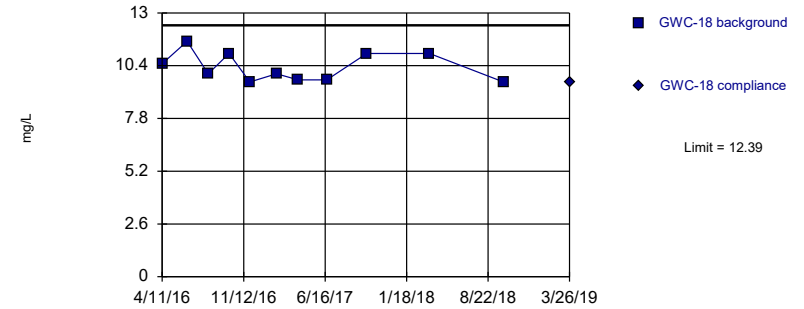
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.326, Std. Dev.=0.4788, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.942, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

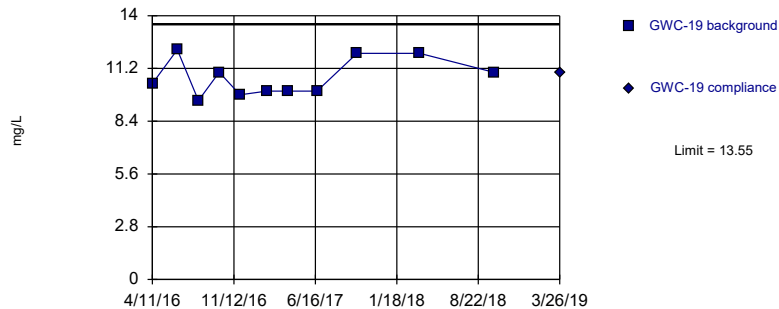
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=10.34, Std. Dev.=0.7117, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8695, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:03 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

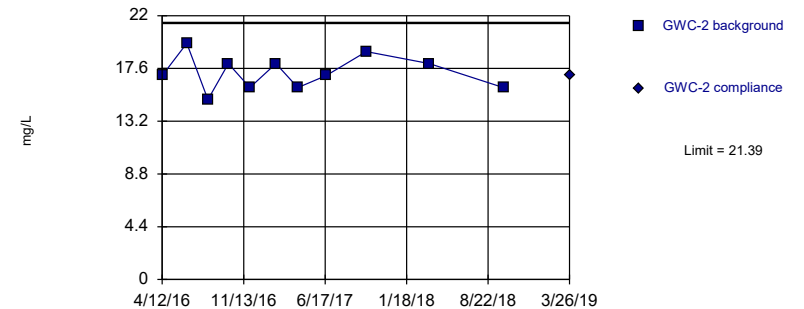
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=10.72, Std. Dev.=0.9806, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8782, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

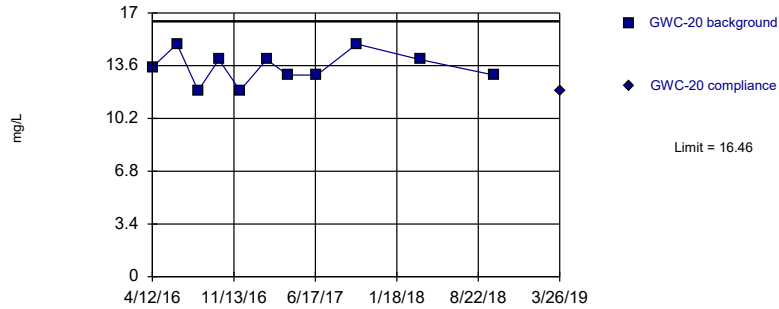
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=17.25, Std. Dev.=1.436, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9532, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

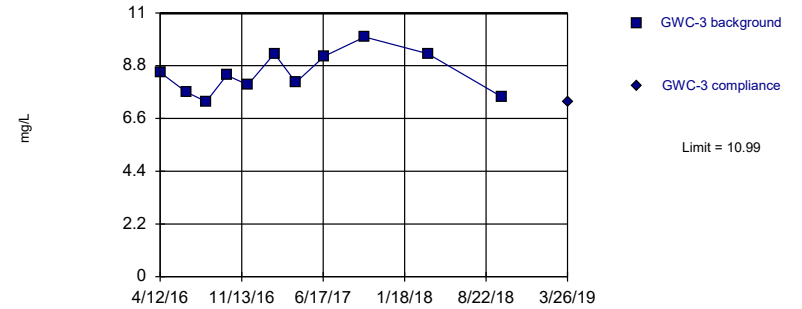
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=13.5, Std. Dev.=1.025, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.923, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

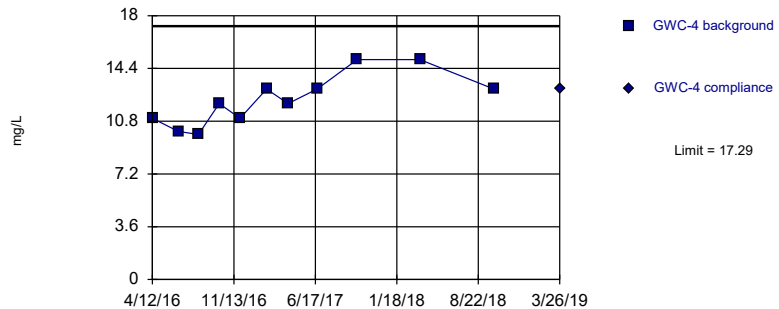
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=8.484, Std. Dev.=0.867, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9492, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

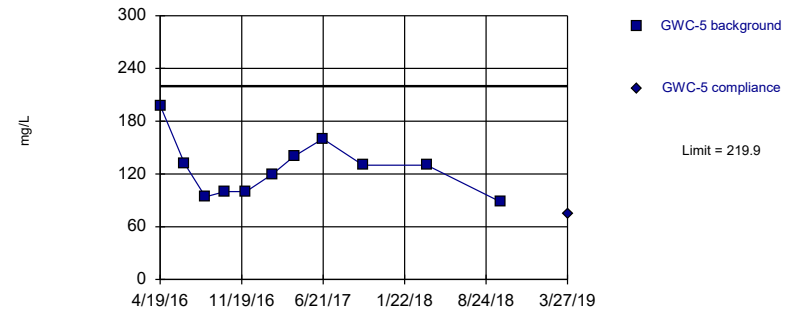
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=12.27, Std. Dev.=1.738, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9259, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

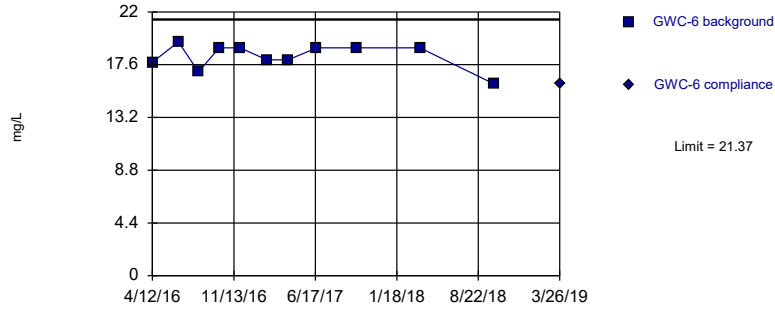
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=126.5, Std. Dev.=32.34, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9147, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

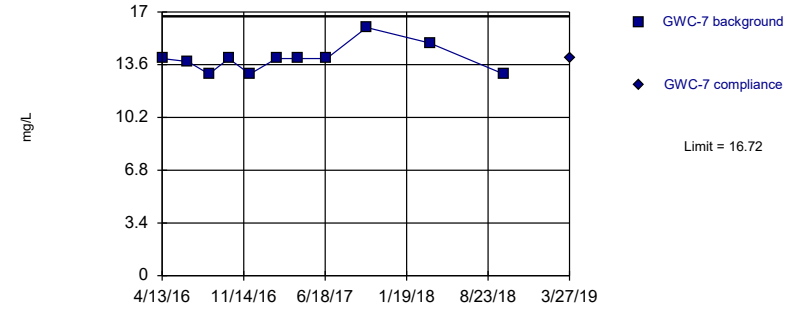
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=18.3, Std. Dev.=1.063, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8543, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

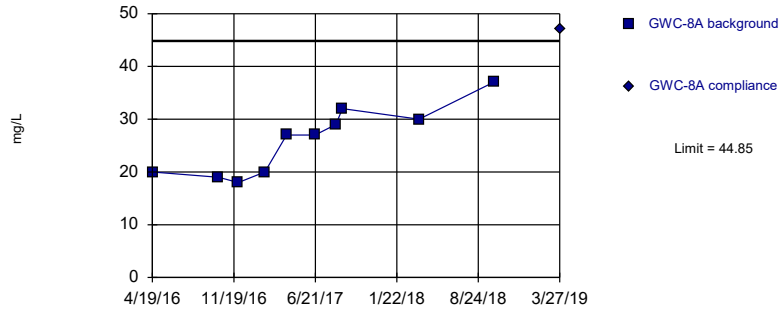
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.636, Std. Dev.=0.06258, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8507, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

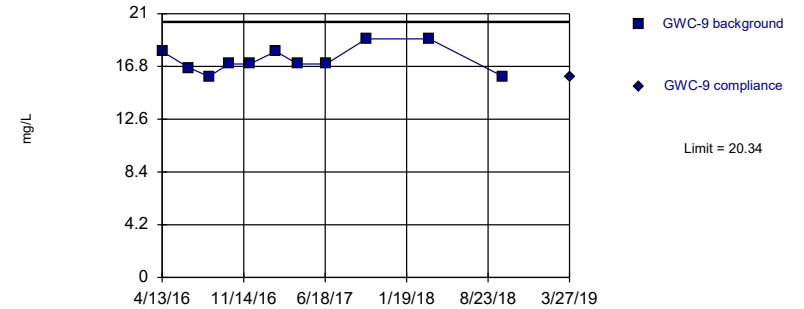
Exceeds Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=25.9, Std. Dev.=6.402, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9203, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

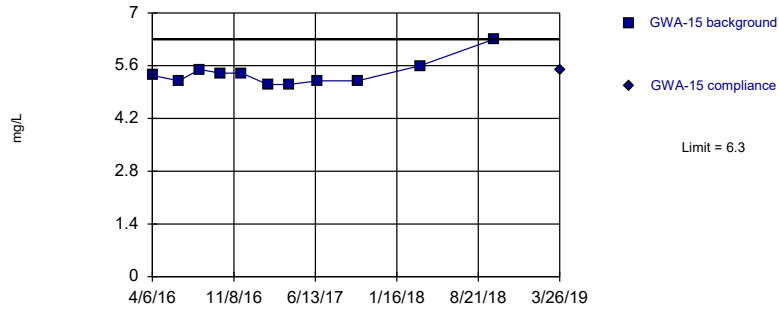
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=17.34, Std. Dev.=1.041, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8927, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Calcium Analysis Run 7/25/2019 3:04 PM View: Cell 1 ApplIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

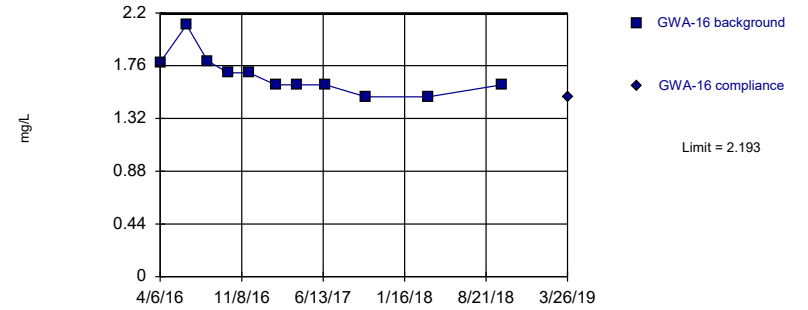
Within Limit Prediction Limit
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

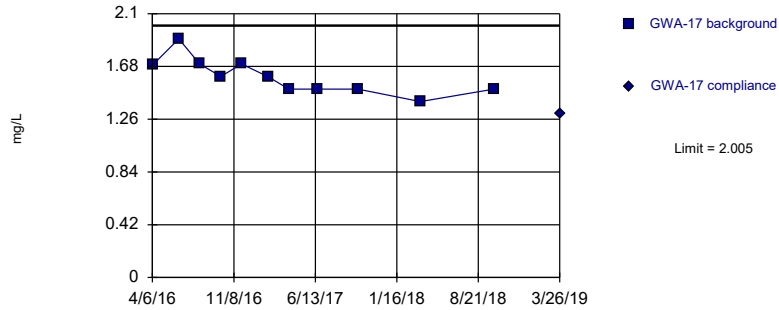
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=1.295, Std. Dev.=0.06434, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.864, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

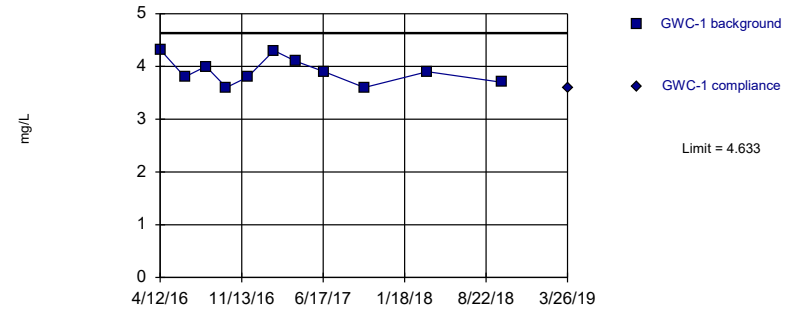
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.599, Std. Dev.=0.1407, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9146, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

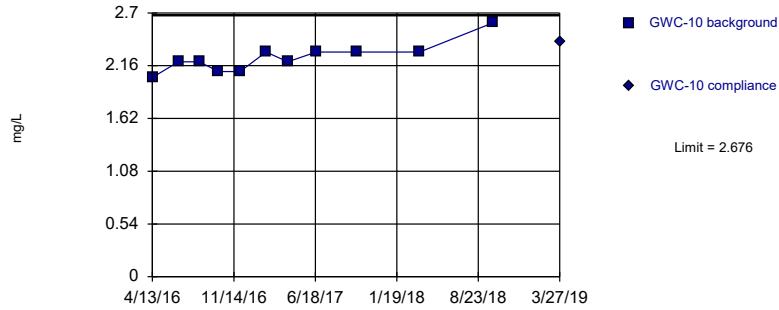
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.911, Std. Dev.=0.25, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9271, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

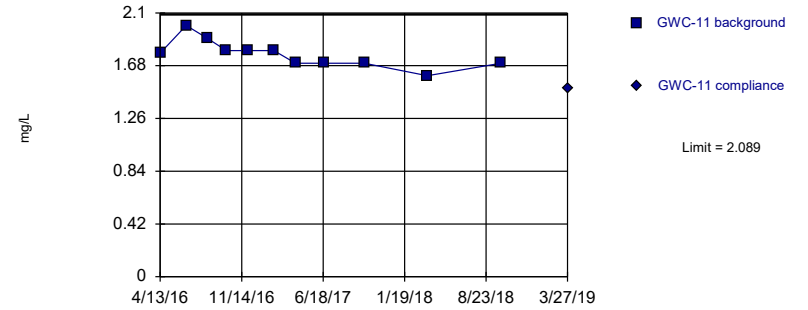
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.24, Std. Dev.=0.151, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.874, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

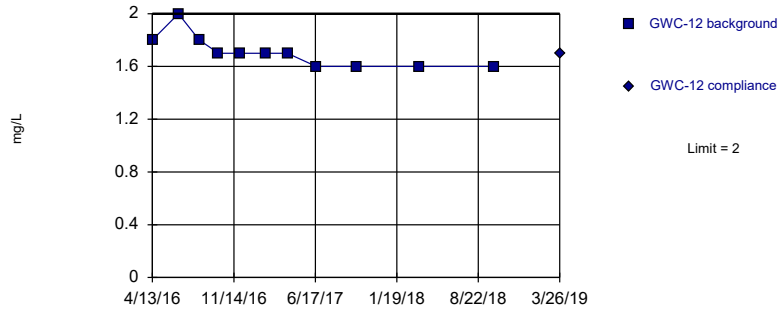
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.771, Std. Dev.=0.11, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9223, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

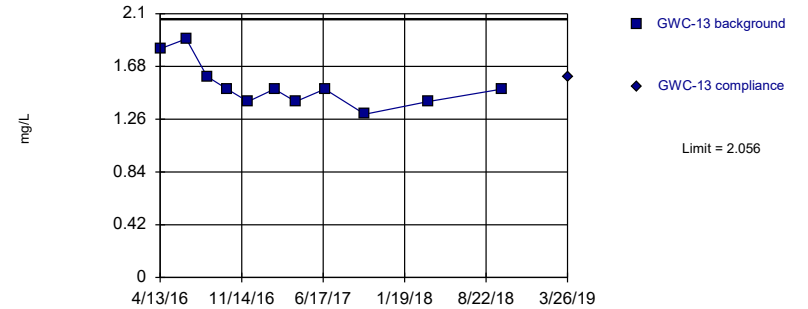
Within Limit Prediction Limit
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

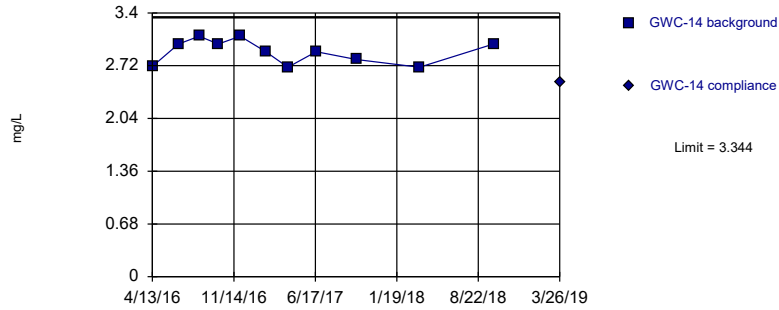
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.529, Std. Dev.=0.1825, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8586, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

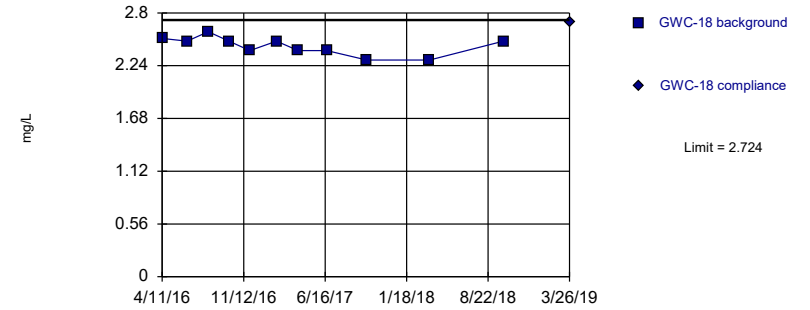
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.901, Std. Dev.=0.1537, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8874, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

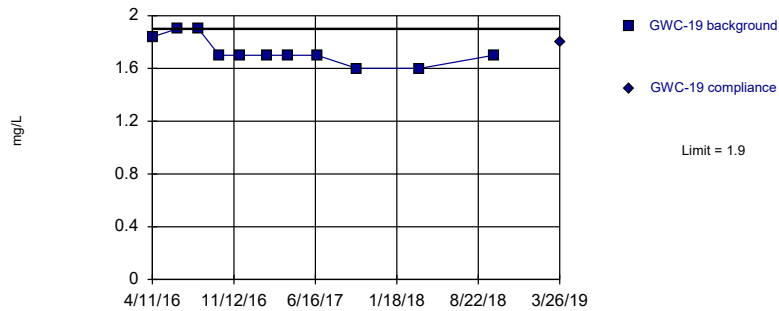
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.448, Std. Dev.=0.09558, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9086, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

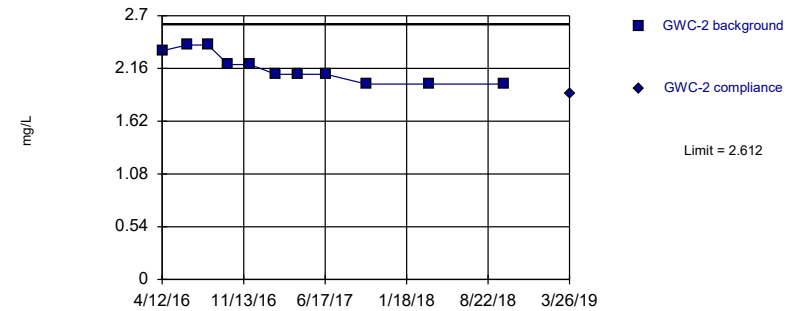
Within Limit Prediction Limit
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

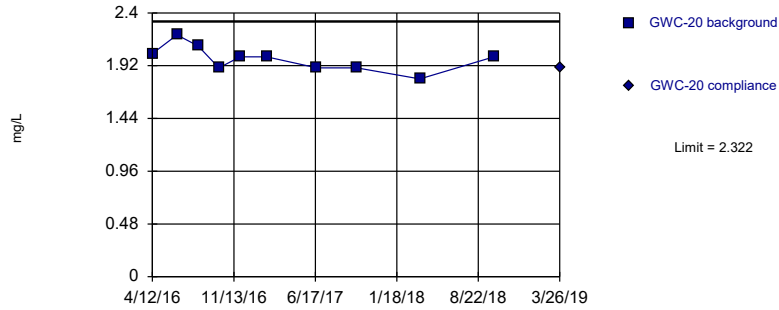
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.167, Std. Dev.=0.1542, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8694, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

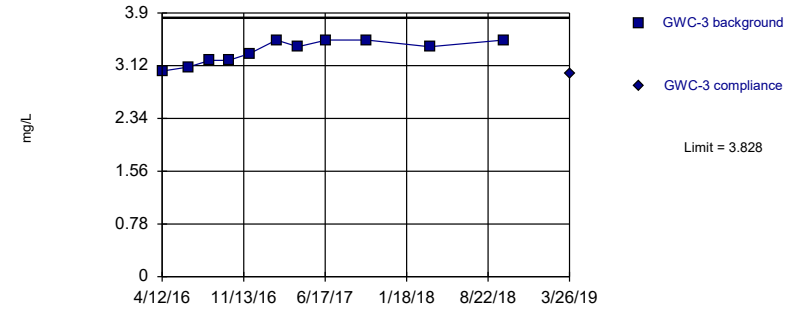
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.983, Std. Dev.=0.1145, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9536, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

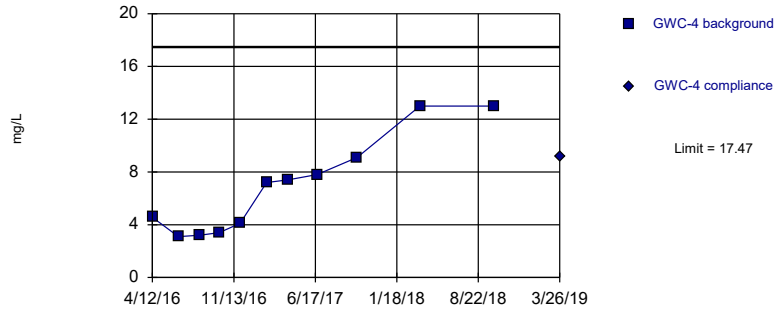
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.331, Std. Dev.=0.1724, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8682, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

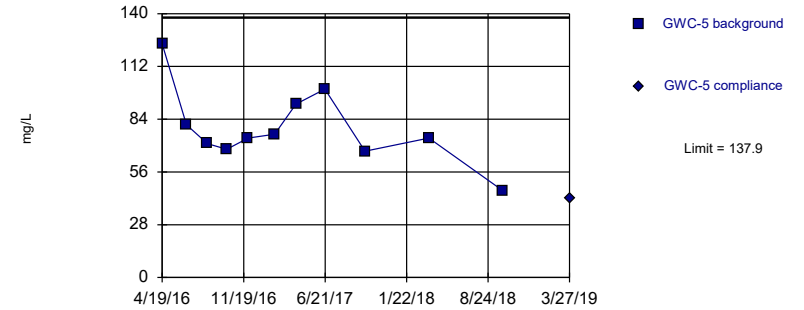
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.897, Std. Dev.=3.661, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8712, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

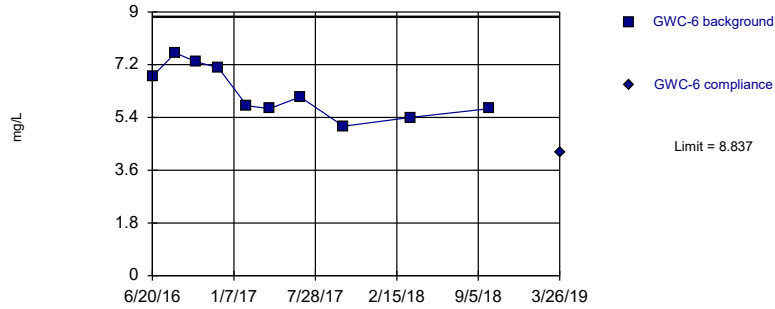
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=79.36, Std. Dev.=20.28, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9228, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

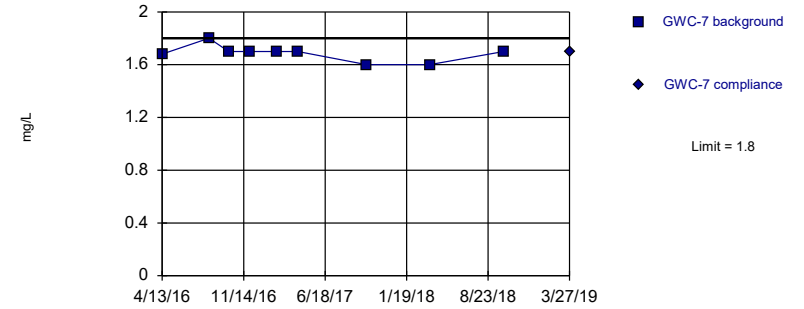
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.26, Std. Dev.=0.8708, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9206, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

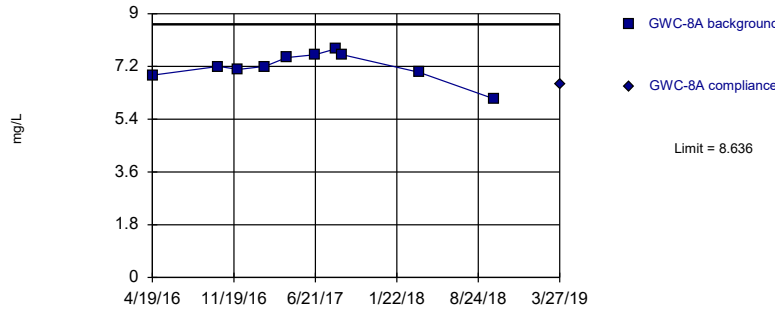
Within Limit Prediction Limit
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 9 background values. Report alpha = 0.1. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

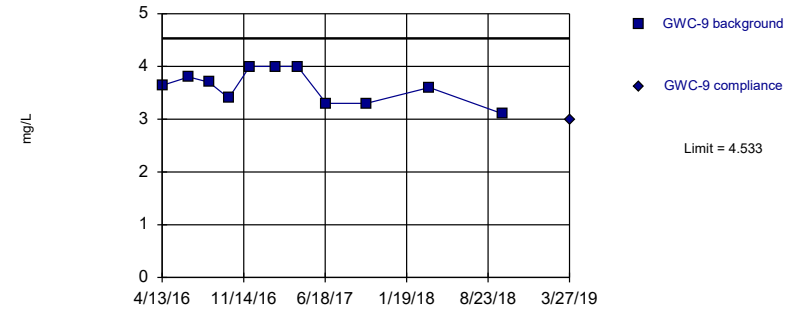
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.2, Std. Dev.=0.4853, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9028, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

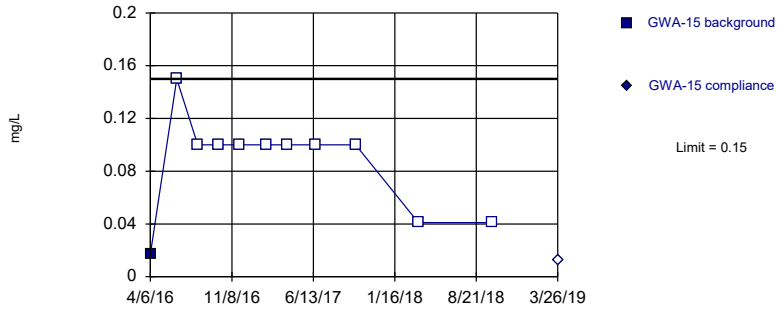
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.622, Std. Dev.=0.3157, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.922, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

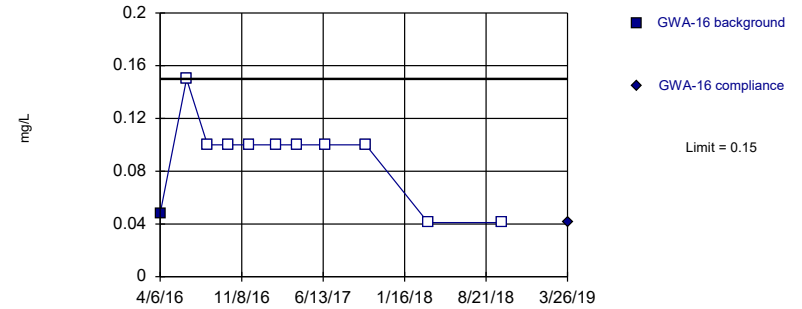
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

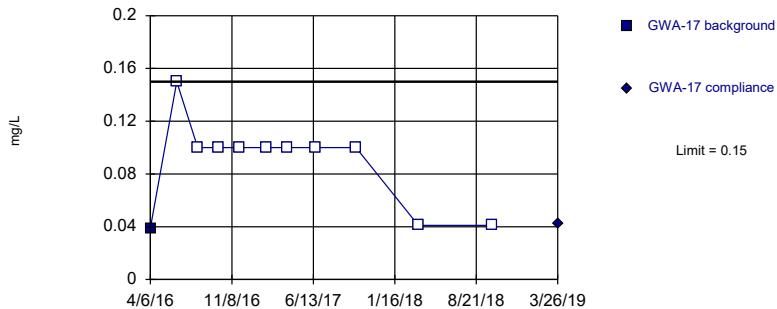
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

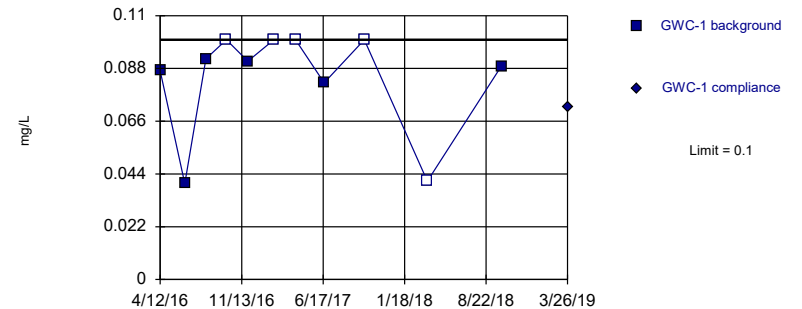
Within Limit Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit
 Intrawell Non-parametric

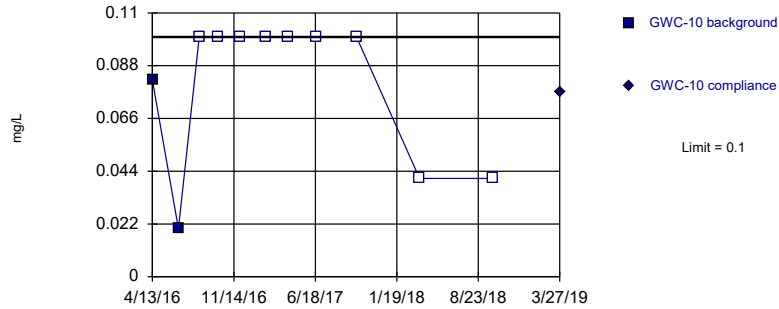


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 11 background values. 45.45% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

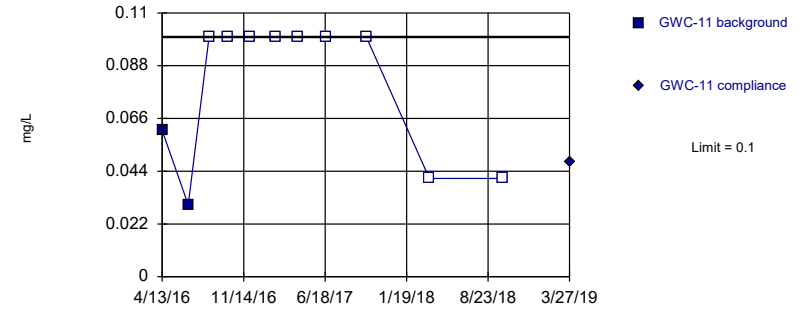


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

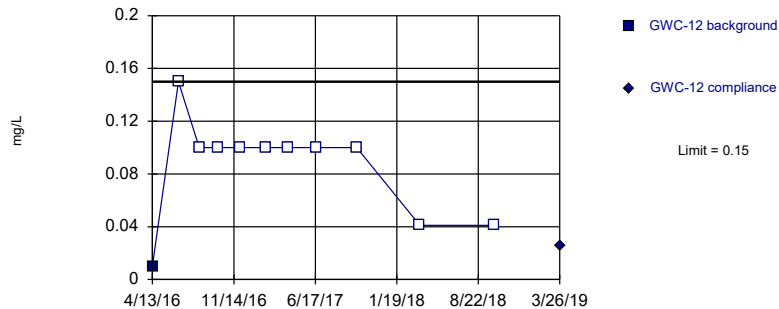


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

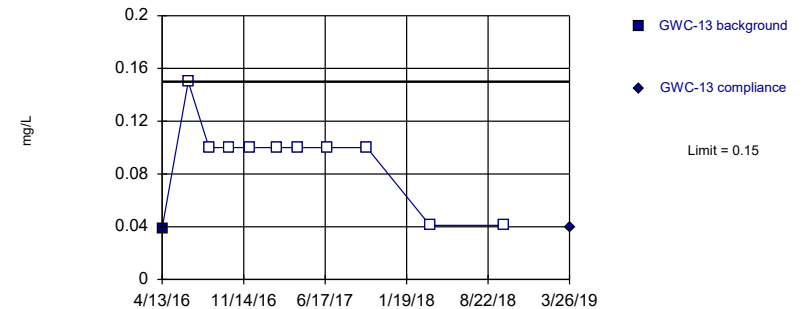


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

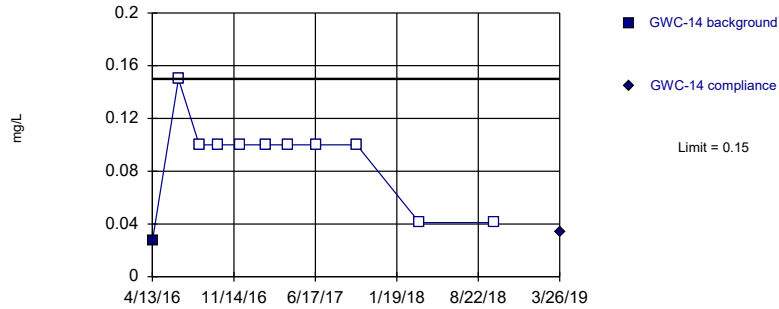


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

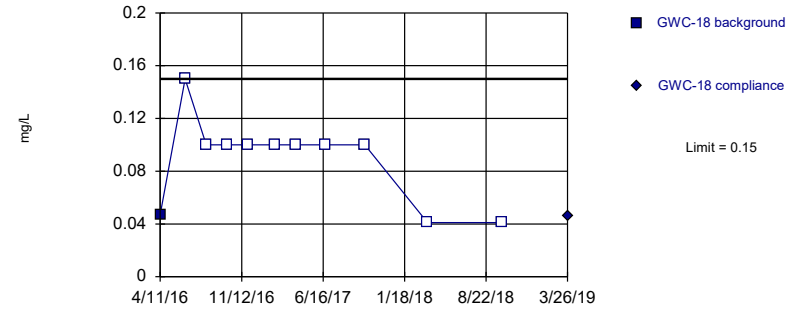


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

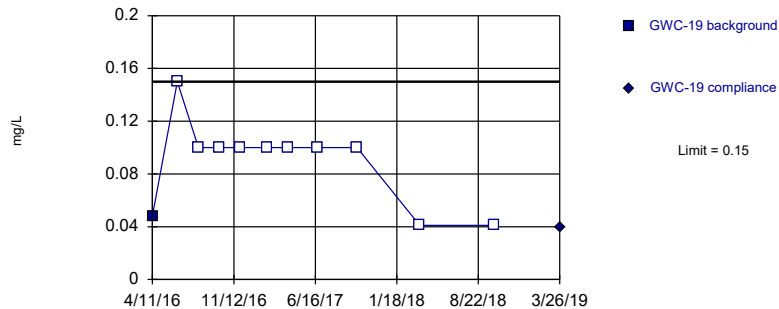


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

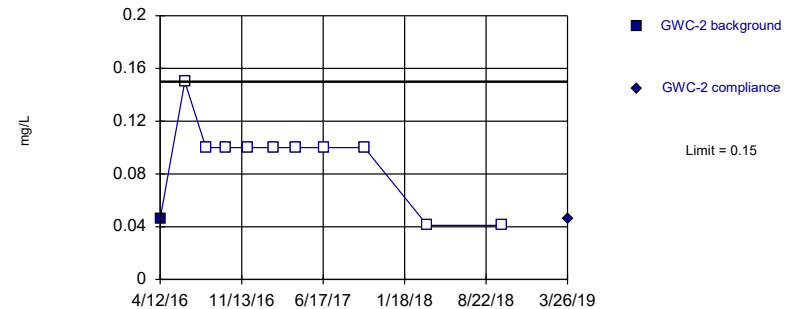


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

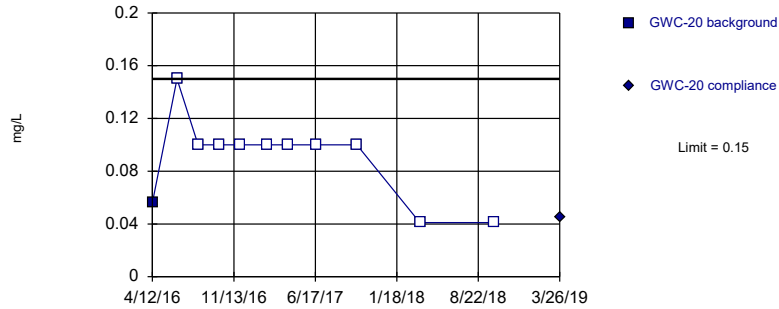
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

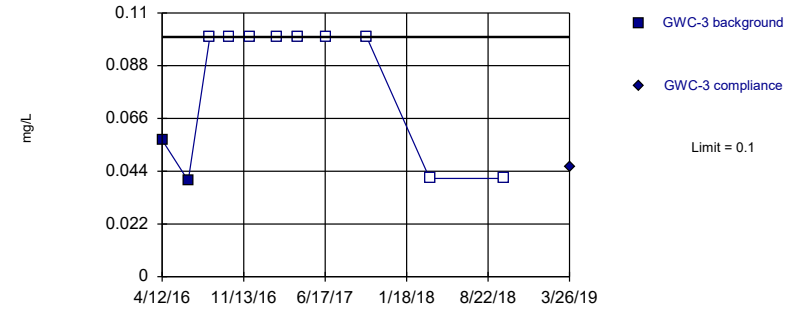
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

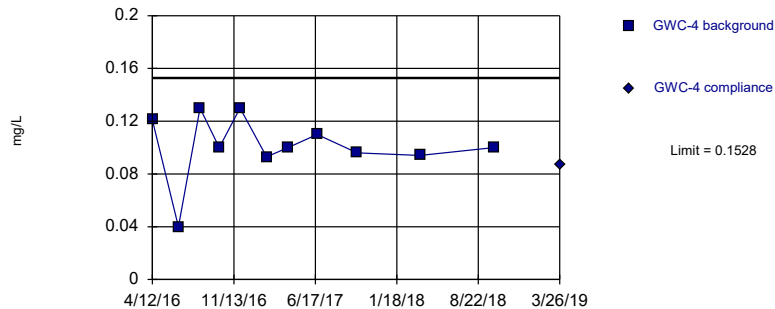
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

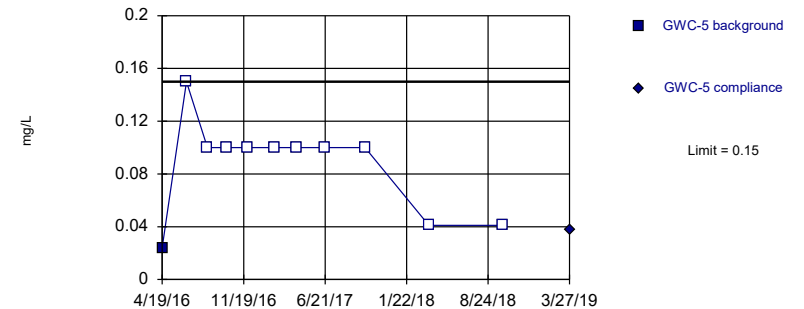
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.0108, Std. Dev.=0.004341, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9009, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

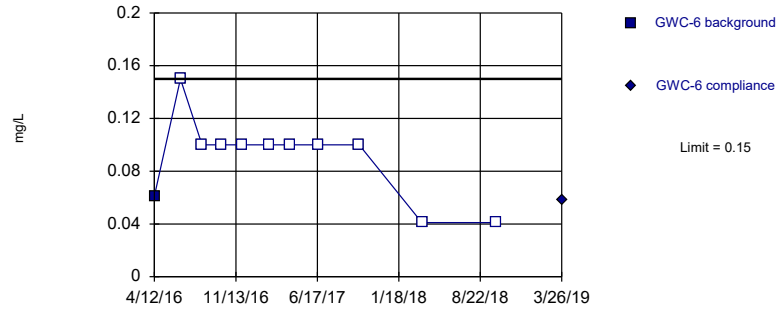
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

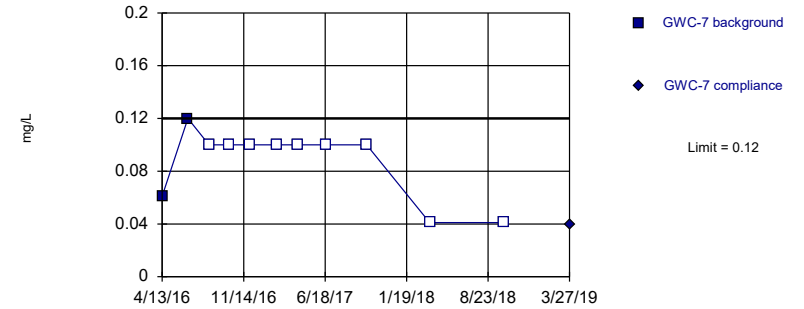
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

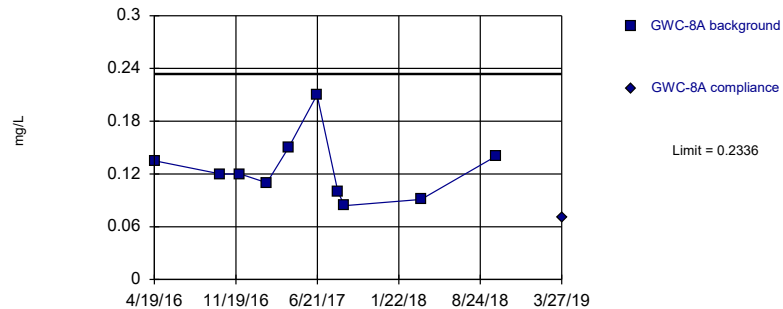
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

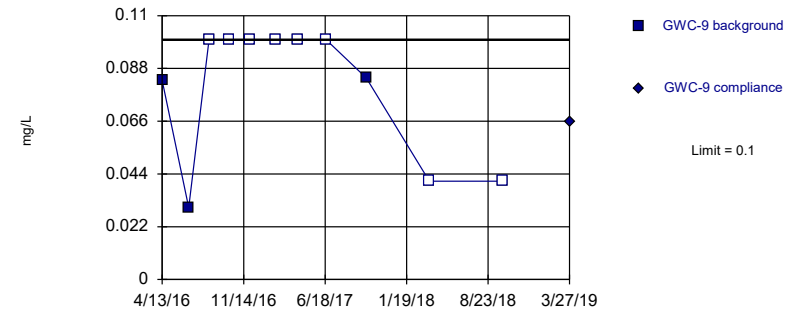
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.126, Std. Dev.=0.03637, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8975, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit
Intrawell Non-parametric

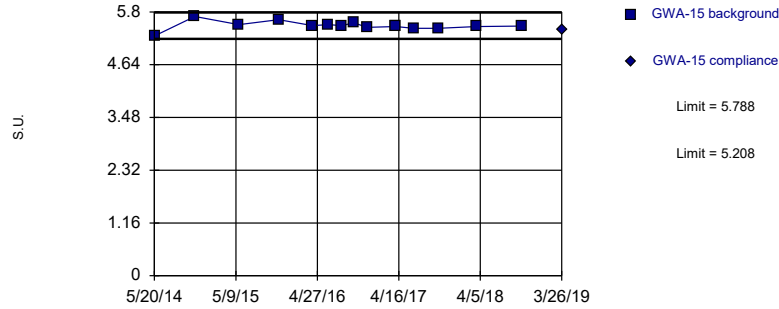


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Fluoride Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

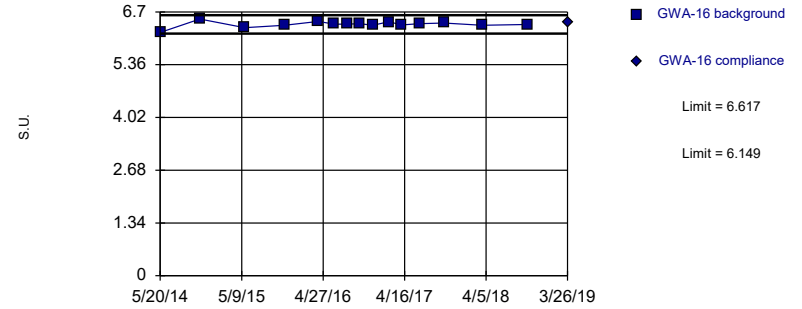


Background Data Summary: Mean=5.498, Std. Dev.=0.0942, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8953, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

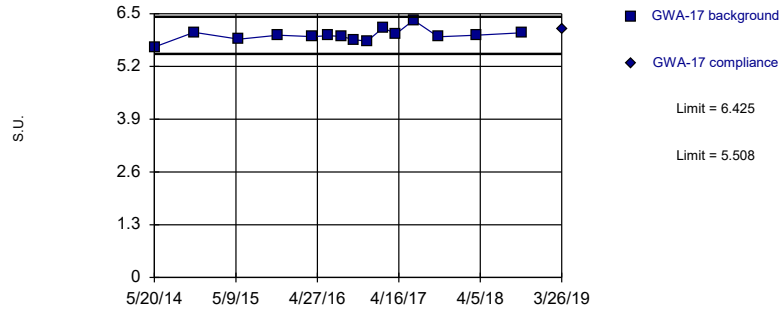


Background Data Summary: Mean=6.383, Std. Dev.=0.07611, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9003, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

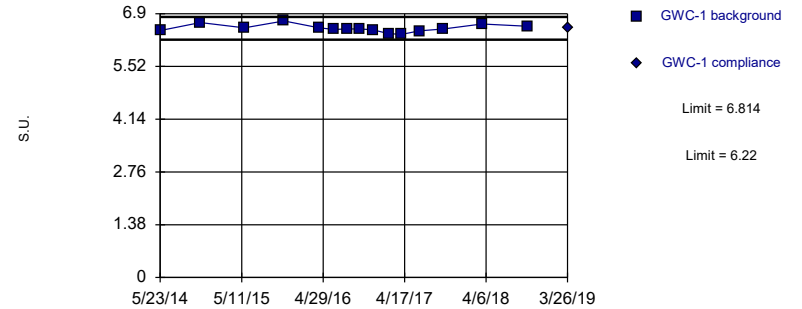


Background Data Summary: Mean=5.966, Std. Dev.=0.149, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9297, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

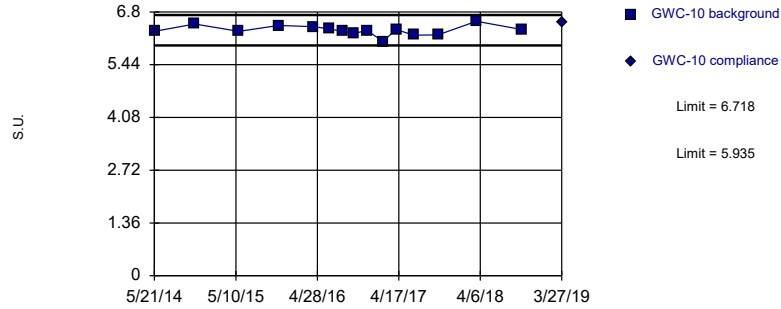


Background Data Summary: Mean=6.517, Std. Dev.=0.09662, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9479, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

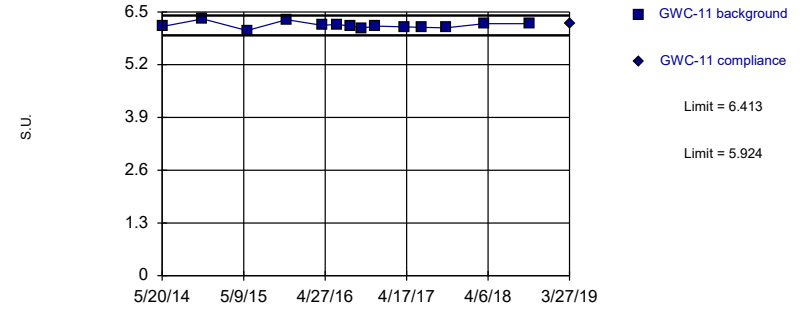


Background Data Summary: Mean=6.327, Std. Dev.=0.1274, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9732, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

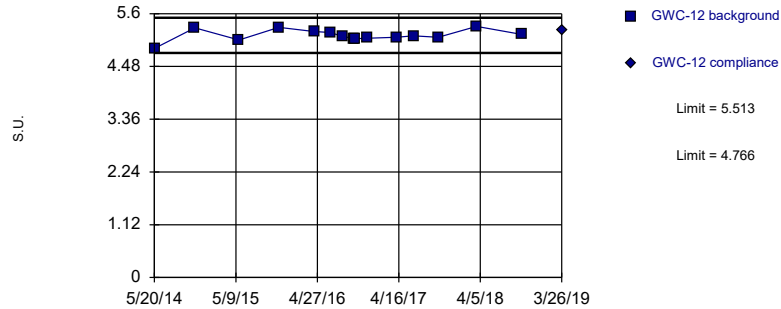


Background Data Summary: Mean=6.169, Std. Dev.=0.07843, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9278, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

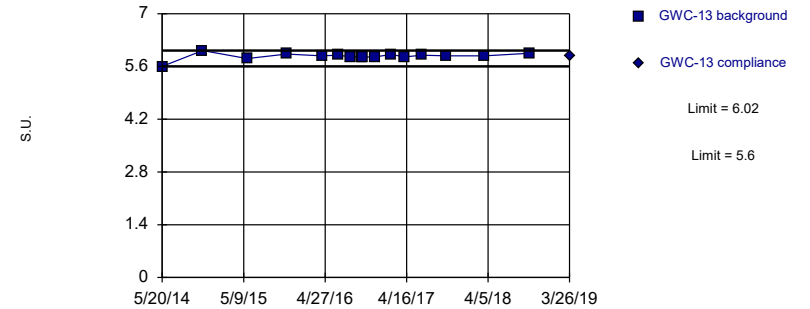


Background Data Summary: Mean=5.139, Std. Dev.=0.1214, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9362, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

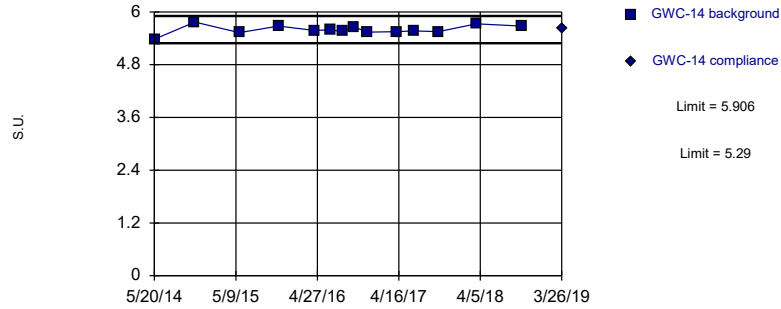


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 16 background values. Report alpha = 0.1176. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

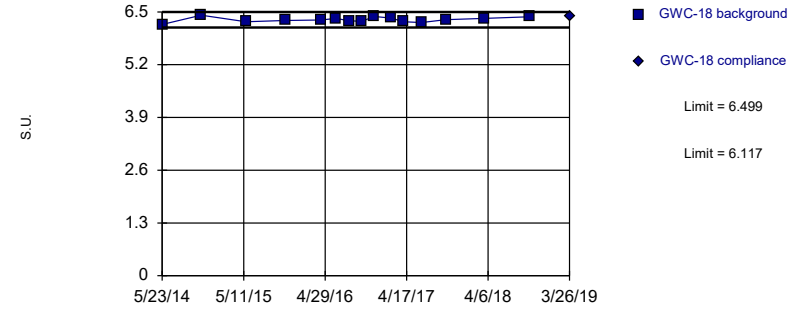


Background Data Summary: Mean=5.598, Std. Dev.=0.09885, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9374, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:04 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

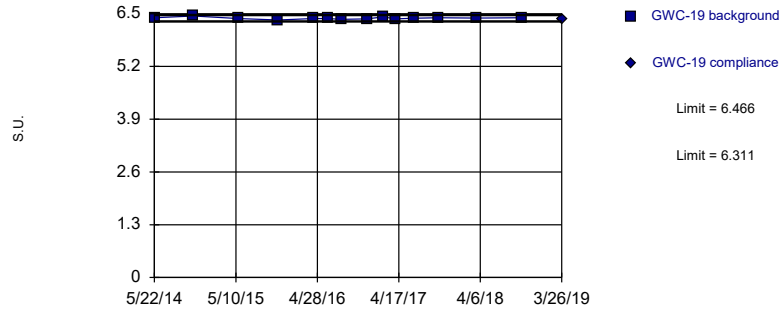


Background Data Summary: Mean=6.308, Std. Dev.=0.06213, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9832, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

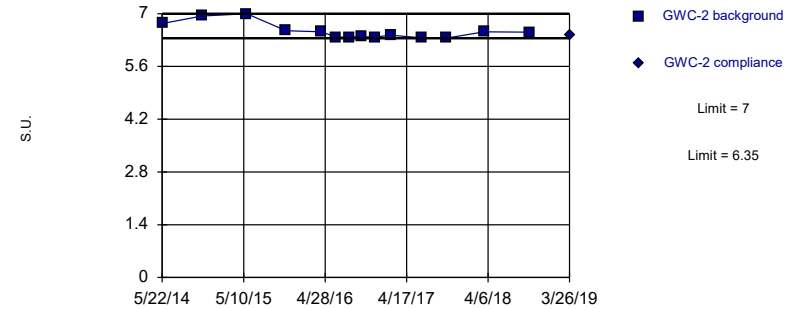


Background Data Summary: Mean=6.388, Std. Dev.=0.02489, n=14. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9655, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

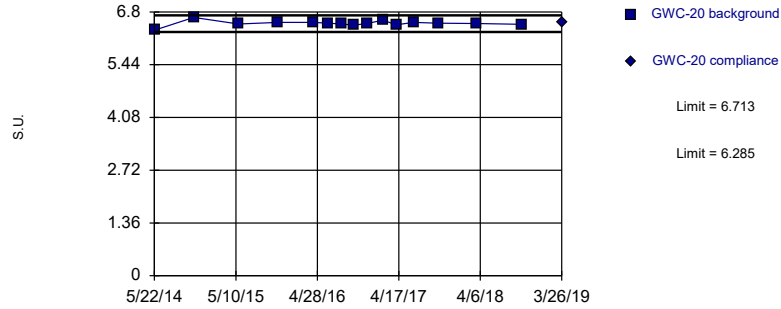


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 14 background values. Report alpha = 0.1333. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

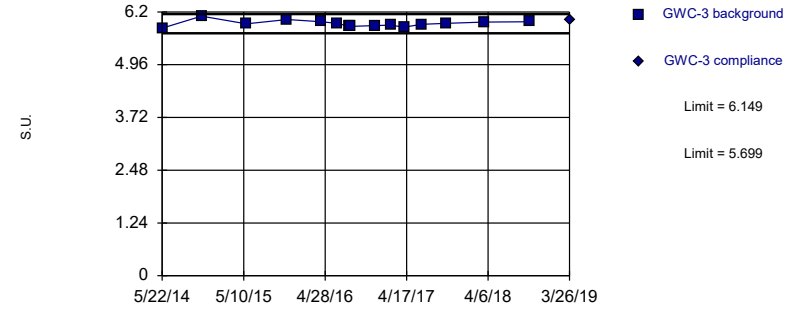


Background Data Summary (based on cube transformation): Mean=275.4, Std. Dev.=8.839, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8819, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

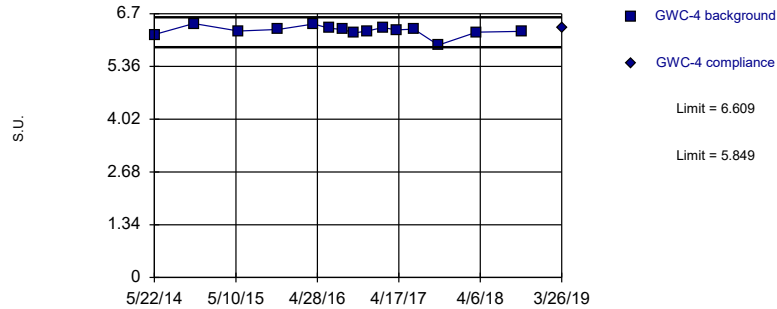


Background Data Summary: Mean=5.924, Std. Dev.=0.07327, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9486, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

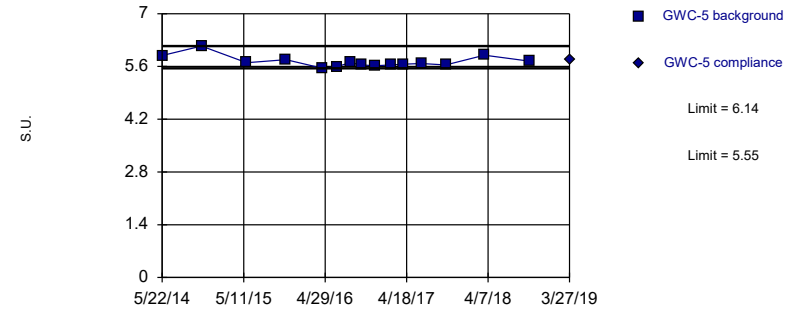


Background Data Summary (based on x^5 transformation): Mean=9727, Std. Dev.=936.7, n=15. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8839, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

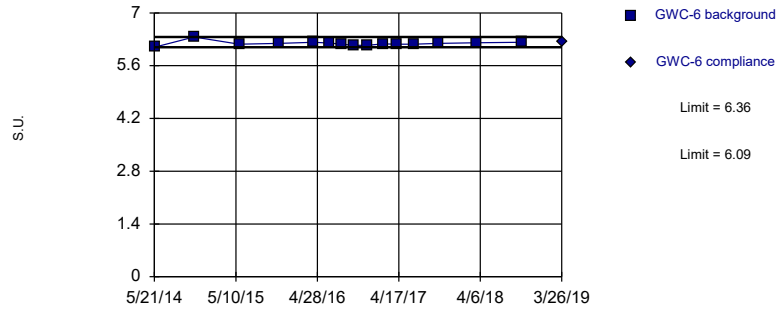


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 15 background values. Report alpha = 0.125. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

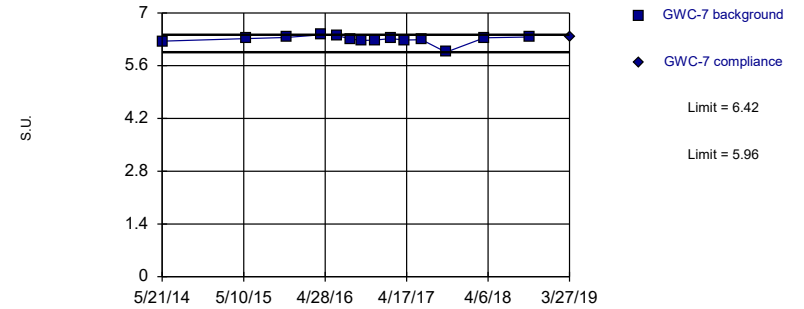


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 15 background values. Report alpha = 0.125. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

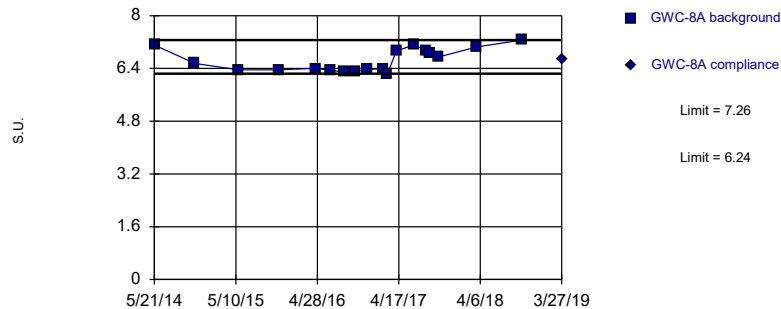


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 14 background values. Report alpha = 0.1333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Non-parametric

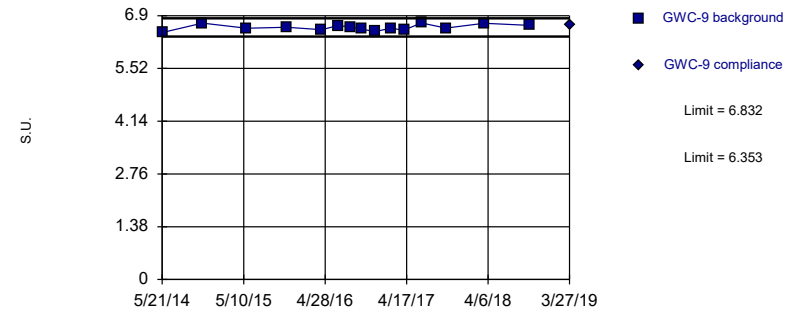


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 18 background values. Report alpha = 0.1053. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limits

Prediction Limit
Intrawell Parametric

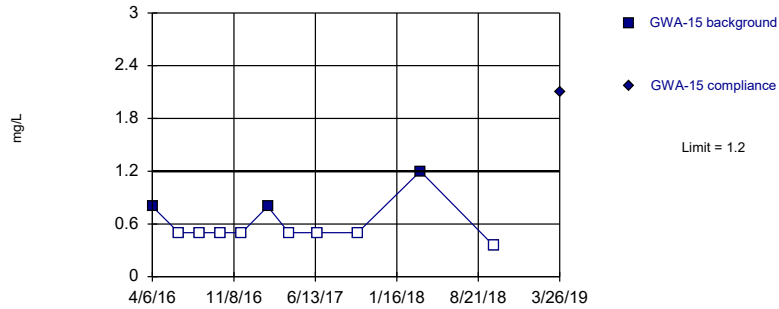


Background Data Summary: Mean=6.592, Std. Dev.=0.07783, n=15. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9556, critical = 0.881. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

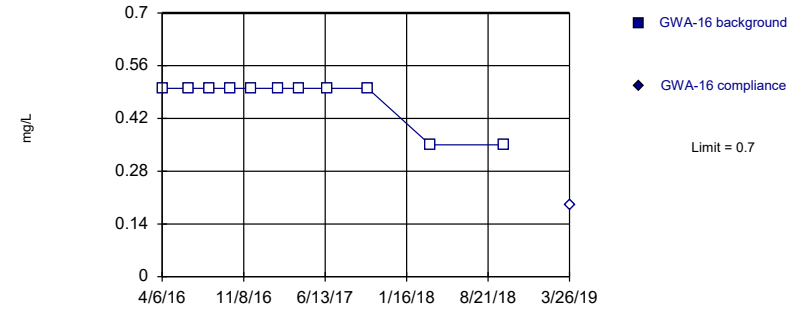


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

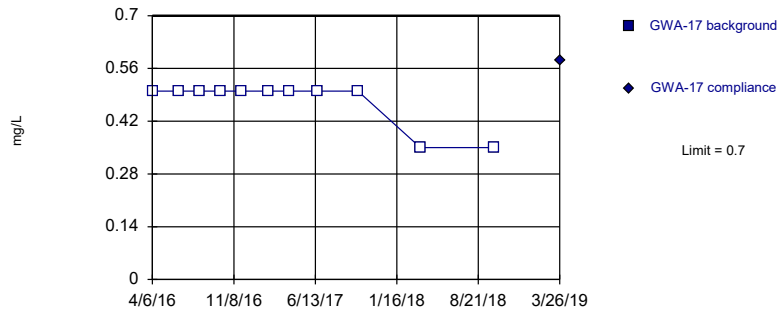


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

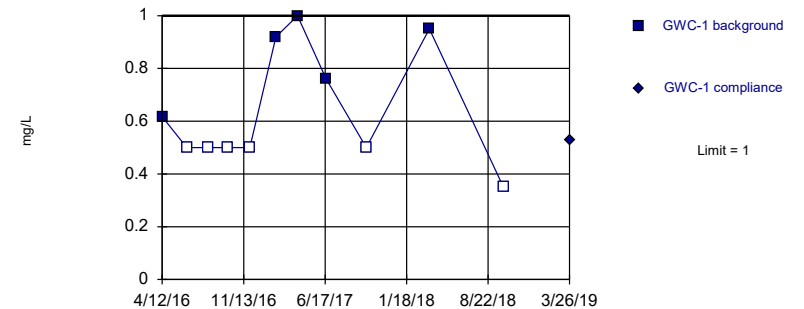


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

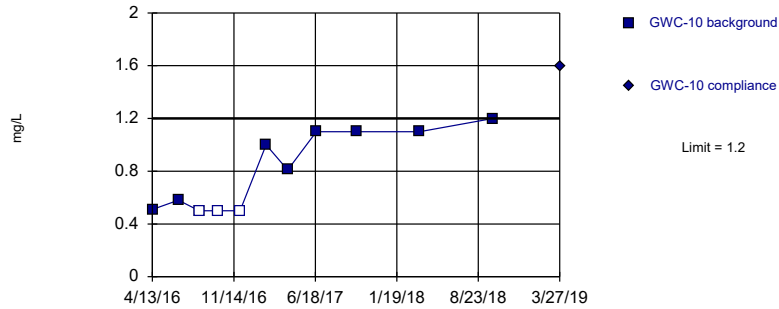


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

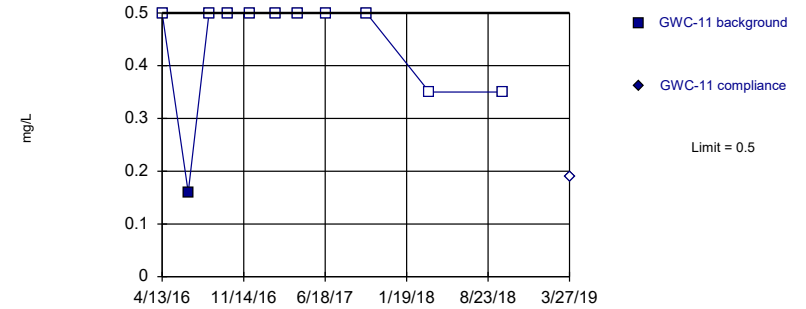


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 11 background values. 27.27% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

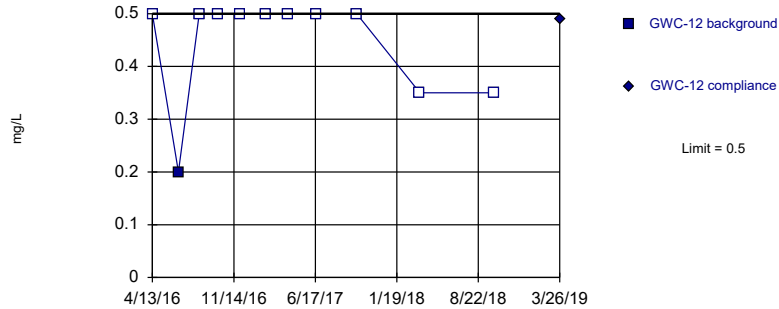


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

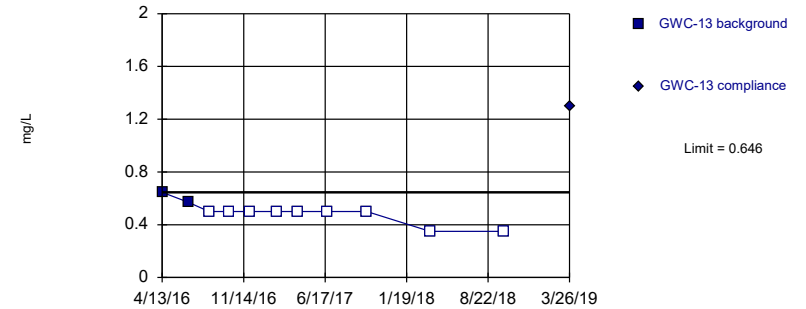


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

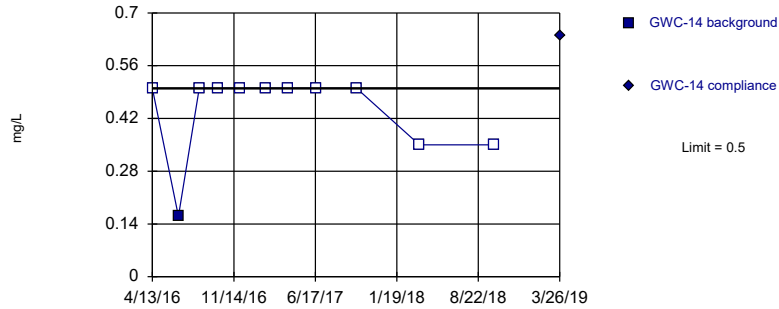


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

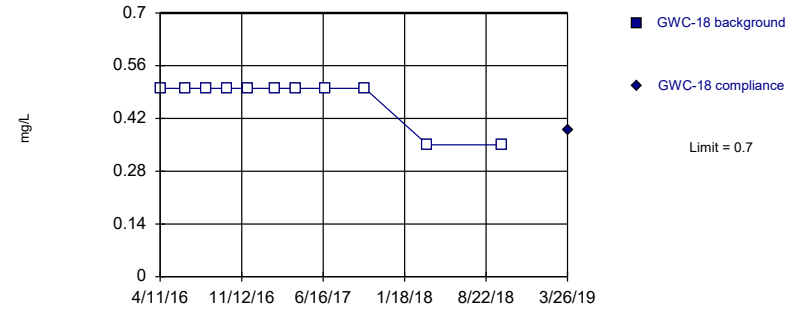


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

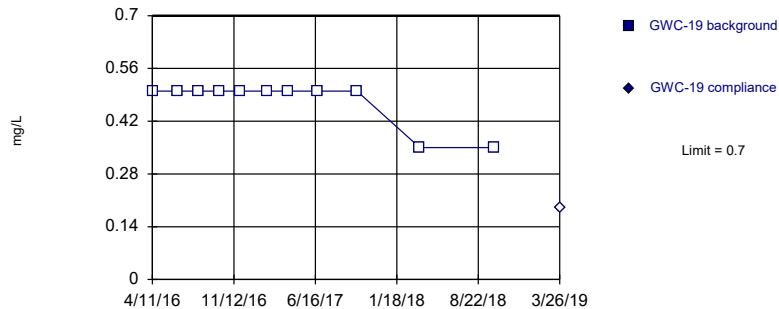


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

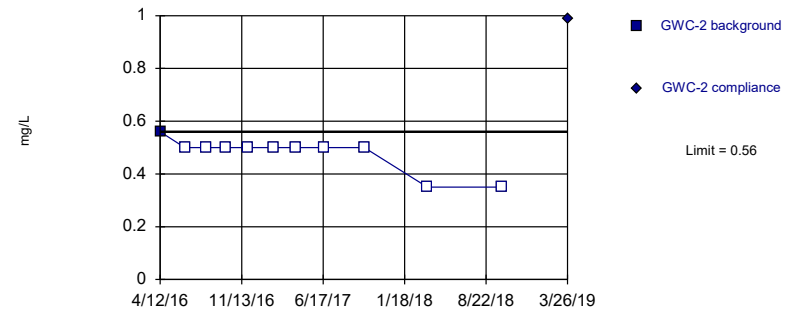


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

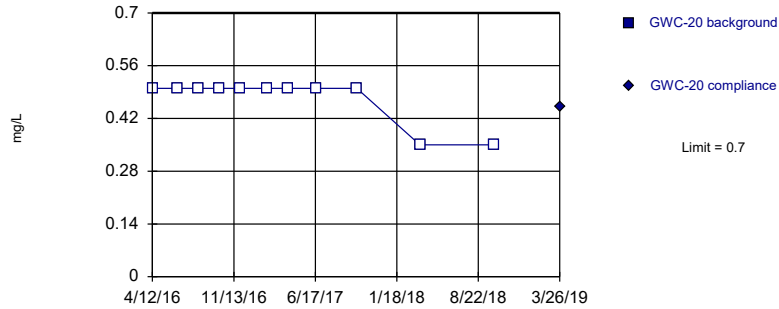
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

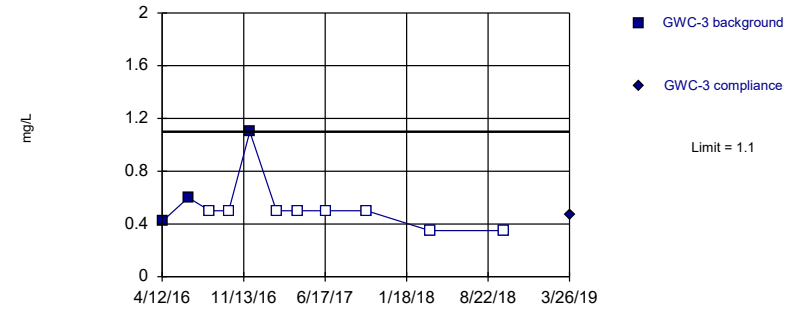
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

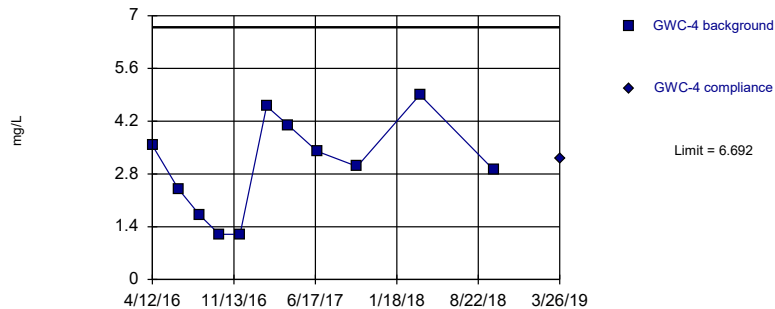
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

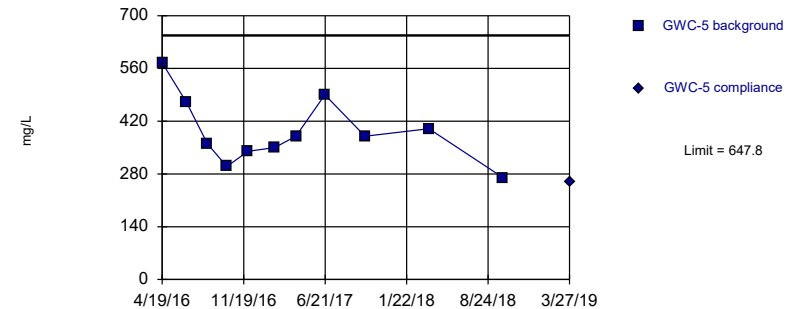
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.996, Std. Dev.=1.28, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9481, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

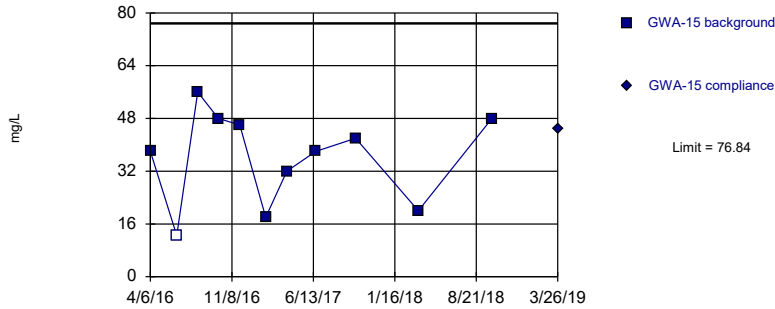
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=392.3, Std. Dev.=88.53, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9422, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

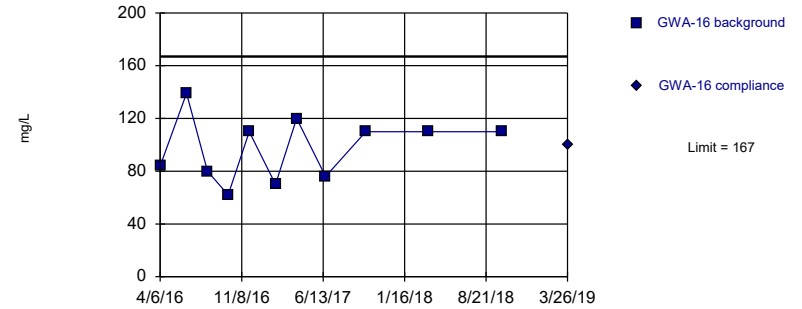
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=36.23, Std. Dev.=14.07, n=11, 9.091% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9303, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

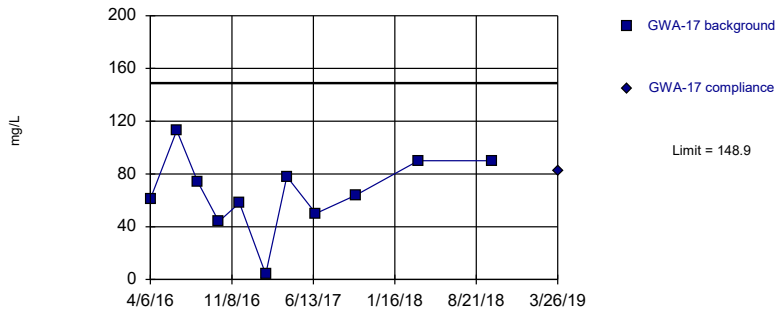
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=97.36, Std. Dev.=24.13, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9276, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

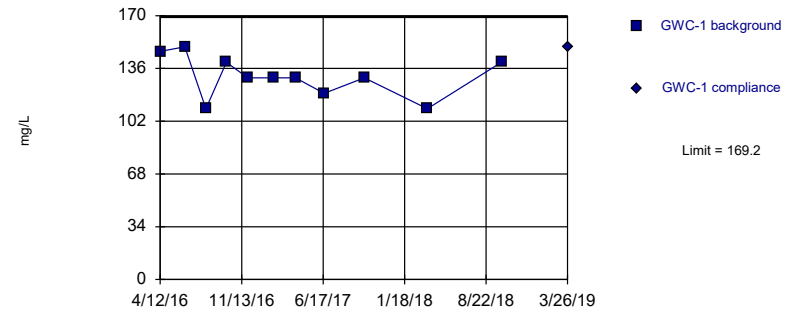
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=66, Std. Dev.=28.72, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9628, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

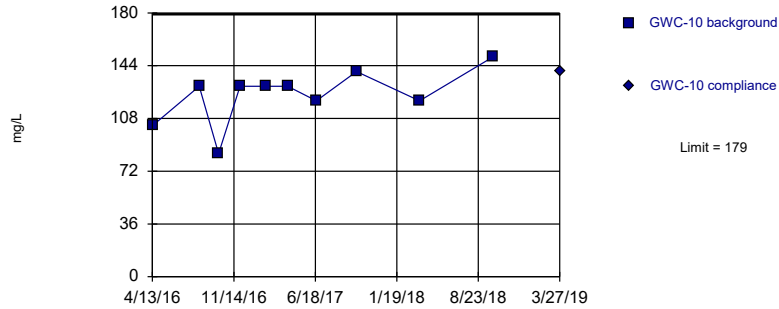
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=130.6, Std. Dev.=13.36, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9245, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

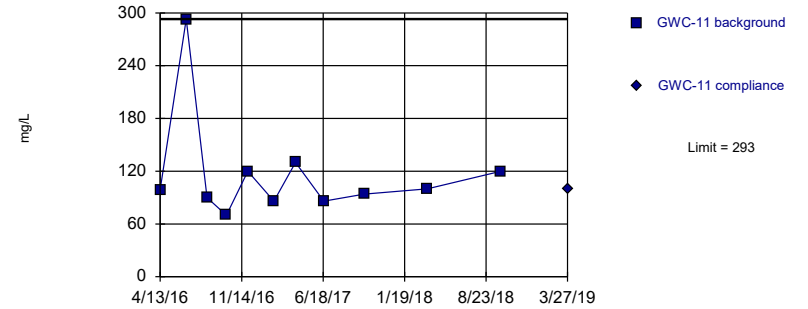
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=123.7, Std. Dev.=18.7, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9065, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

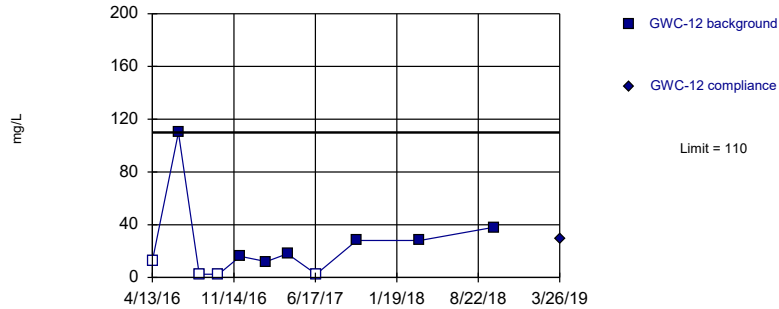
Within Limit Prediction Limit
Intrawell Non-parametric



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 0.05 alpha level. Limit is highest of 11 background values. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

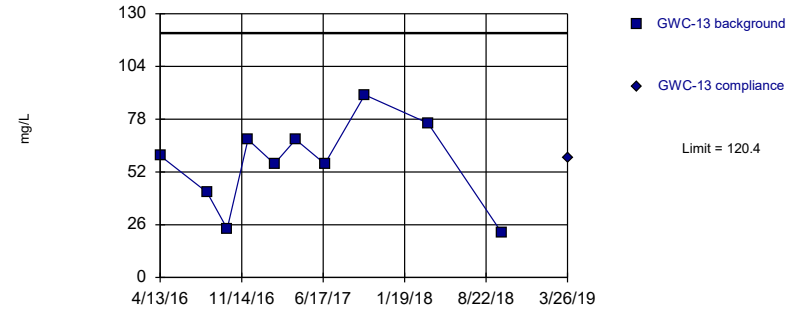
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 11 background values. 36.36% NDs. Report alpha = 0.08333. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

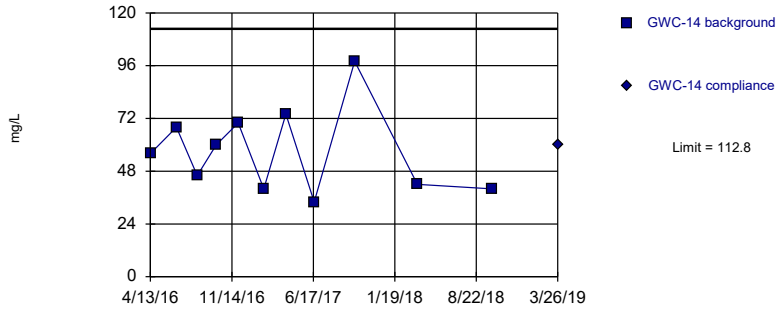
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=56.2, Std. Dev.=21.69, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.947, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

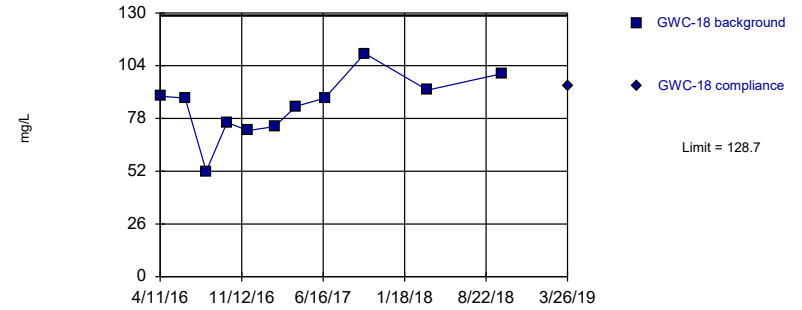
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=57.09, Std. Dev.=19.29, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9219, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

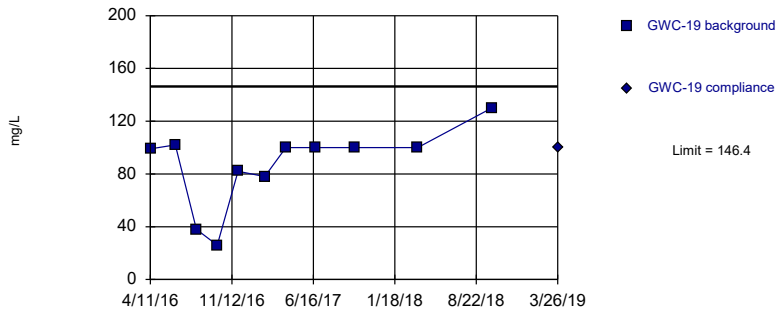
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=84.09, Std. Dev.=15.44, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9649, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

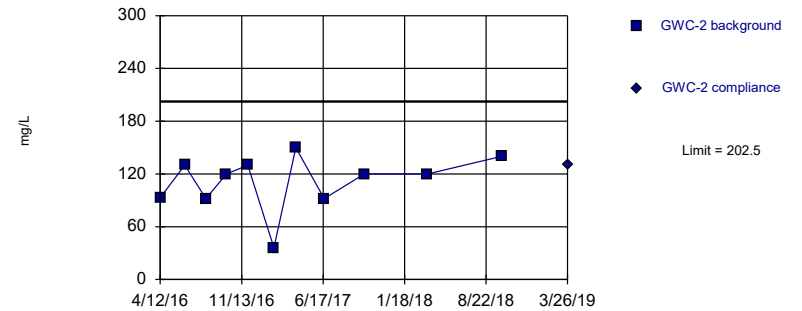
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8367, Std. Dev.=4524, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8805, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

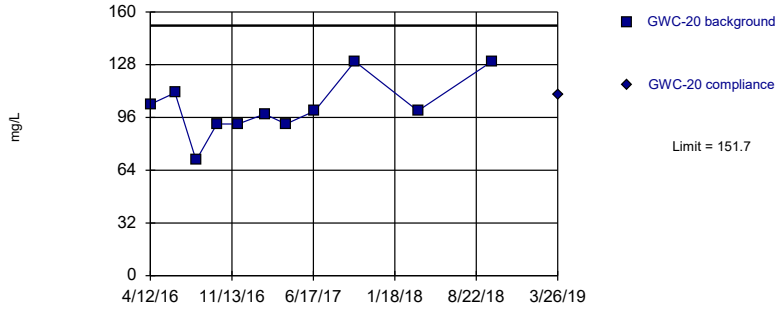
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=111.2, Std. Dev.=31.62, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.877, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

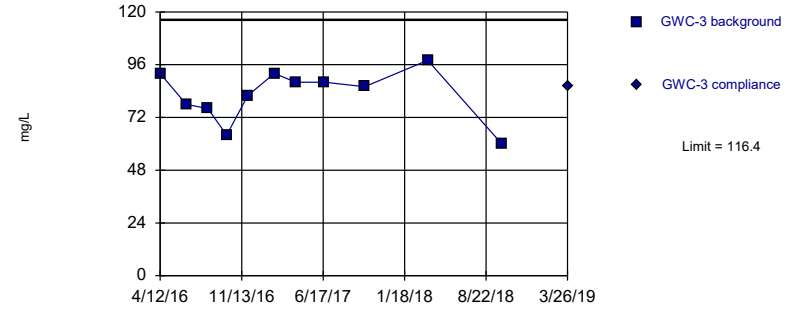
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=101.7, Std. Dev.=17.32, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9135, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

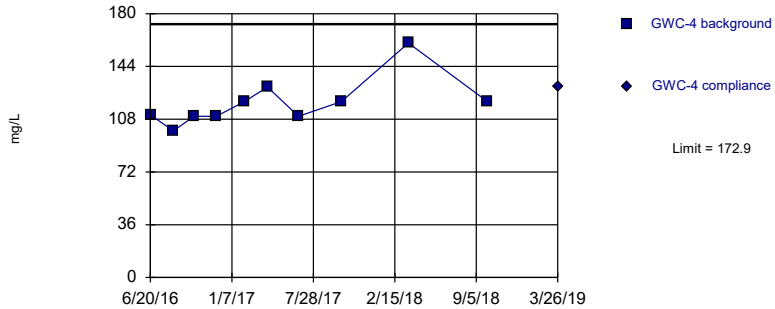
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=82.18, Std. Dev.=11.85, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9247, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

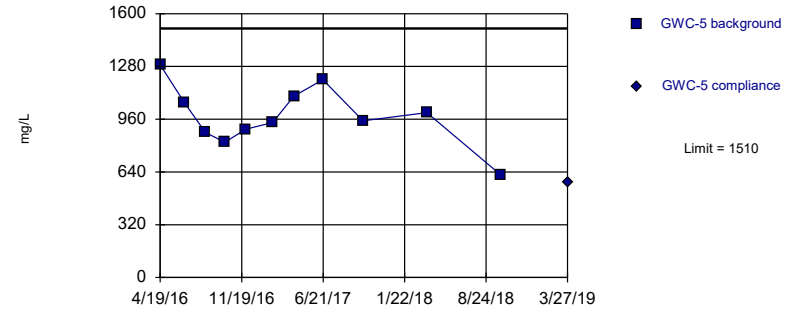
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.772, Std. Dev.=0.1286, n=10. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8568, critical = 0.842. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit
Intrawell Parametric

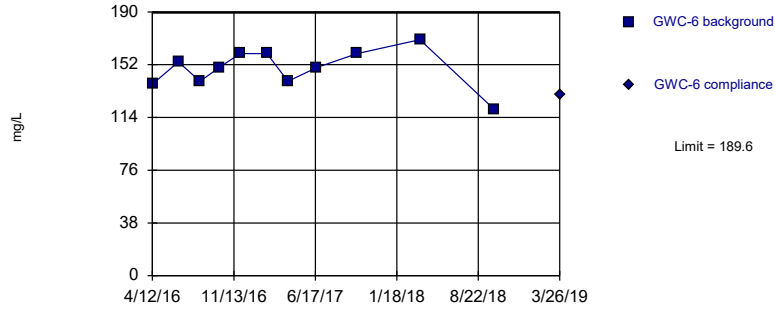


Background Data Summary: Mean=978.2, Std. Dev.=184.3, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9833, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

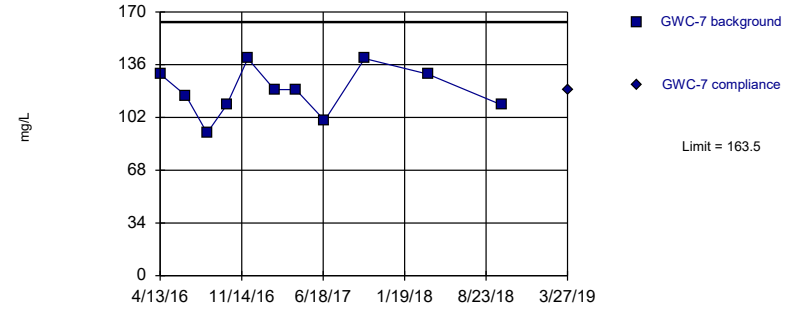


Background Data Summary: Mean=149.3, Std. Dev.=13.98, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9442, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

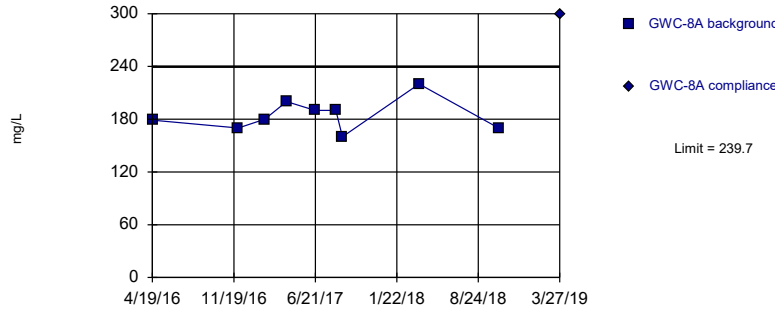


Background Data Summary: Mean=118.9, Std. Dev.=15.45, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9573, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit
Intrawell Parametric

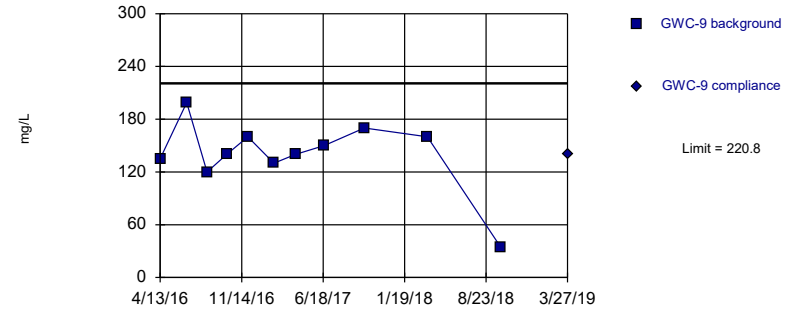


Background Data Summary: Mean=184.3, Std. Dev.=18.14, n=9. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9519, critical = 0.829. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric



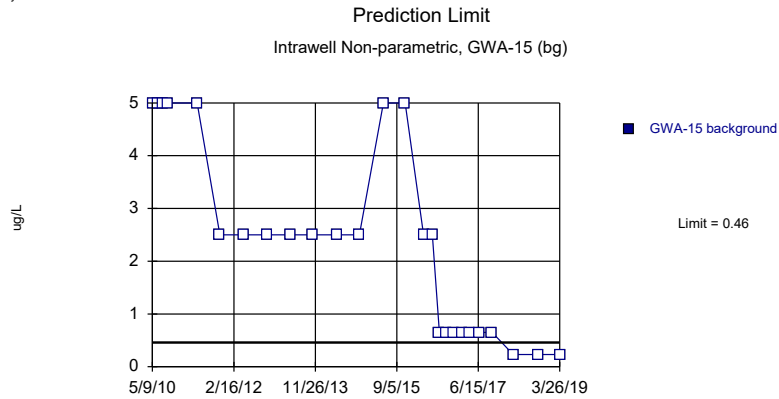
Background Data Summary (based on square transformation): Mean=21098, Std. Dev.=9585, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9513, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids Analysis Run 7/25/2019 3:05 PM View: Cell 1 AppIII Intra Well PLS
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Prediction Limit

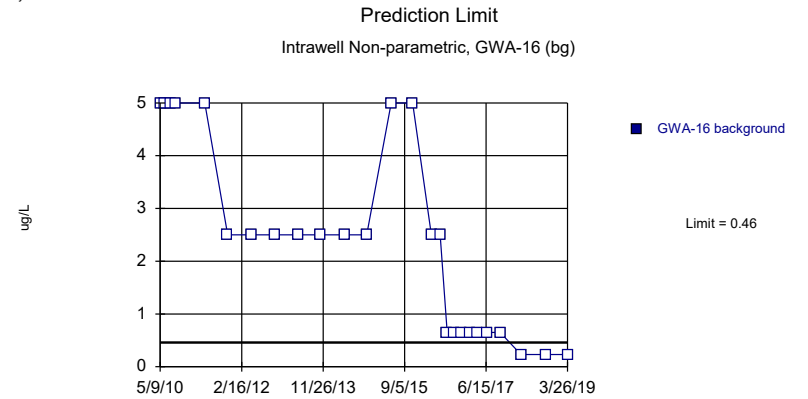
Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic, Total (ug/L)	GWA-15	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWA-16	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWA-17	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-1	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-10	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-11	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-12	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-13	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-14	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-18	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-19	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-2	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-20	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-3	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-4	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-5	5	n/a	n/a	1 future	n/a	25	96	n/a	0.03846	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-6	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-7	0.46	n/a	n/a	1 future	n/a	26	100	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-8A	5	n/a	n/a	1 future	n/a	26	73.08	n/a	0.03704	NP Intra (NDs)
Arsenic, Total (ug/L)	GWC-9	5	n/a	n/a	1 future	n/a	26	96.15	n/a	0.03704	NP Intra (NDs)
Silver (mg/L)	GWA-15	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWA-16	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWA-17	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-1	0.005	n/a	n/a	1 future	n/a	21	95.24	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-10	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-11	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-12	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-13	0.00011	n/a	n/a	1 future	n/a	20	100	n/a	0.04762	NP Intra (NDs)
Silver (mg/L)	GWC-14	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-18	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-19	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-2	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-20	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-3	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-4	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-5	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-6	0.005	n/a	n/a	1 future	n/a	21	95.24	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-7	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-8A	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)
Silver (mg/L)	GWC-9	0.00011	n/a	n/a	1 future	n/a	21	100	n/a	0.04545	NP Intra (NDs)



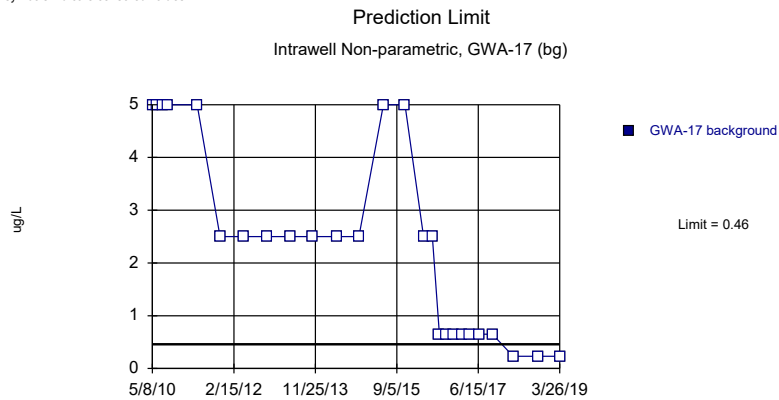
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



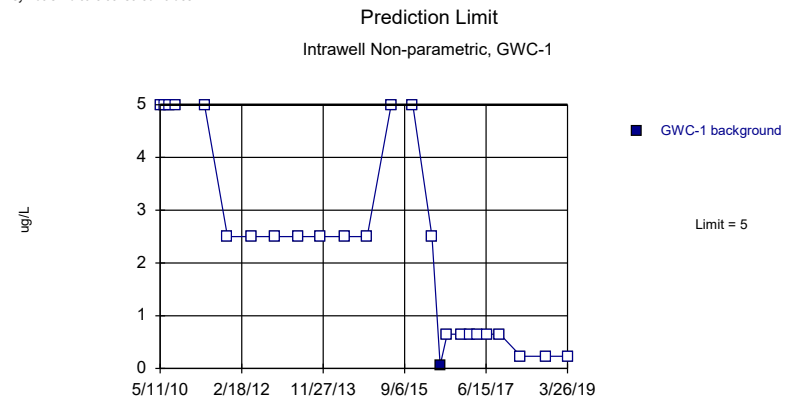
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

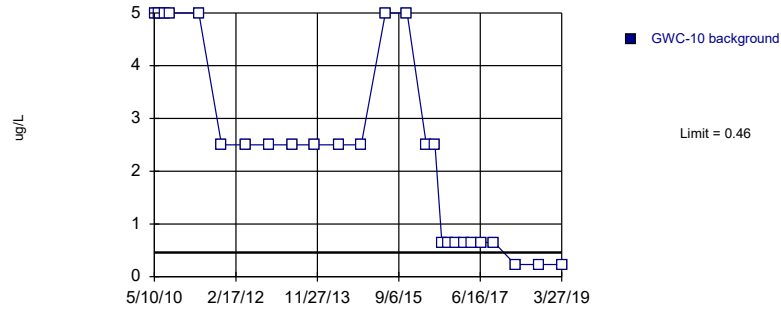
Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

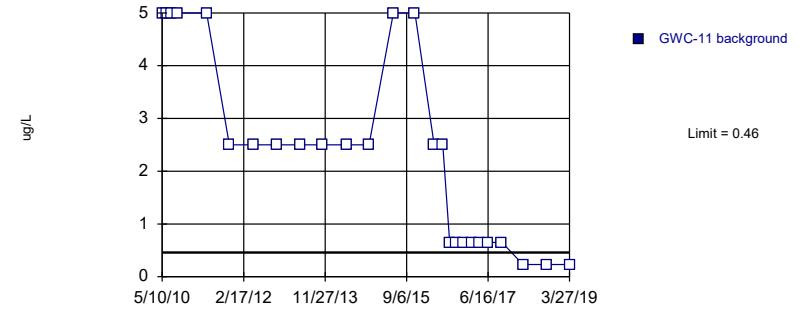
Prediction Limit Intrawell Non-parametric, GWC-10



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

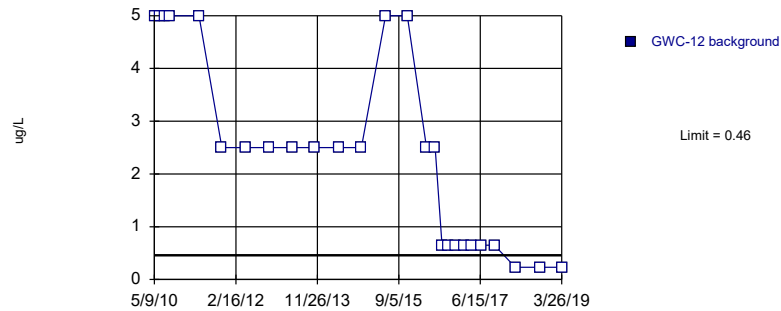
Prediction Limit Intrawell Non-parametric, GWC-11



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

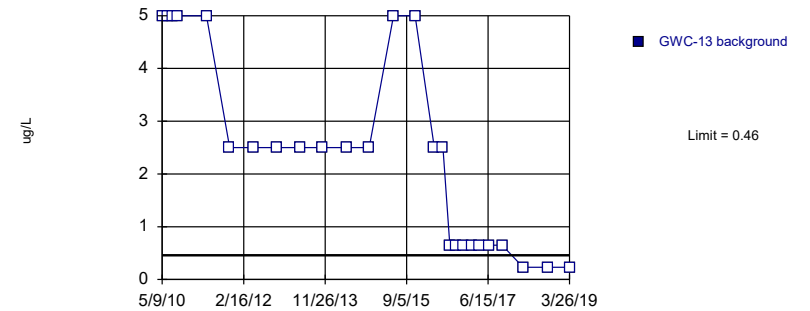
Prediction Limit Intrawell Non-parametric, GWC-12



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

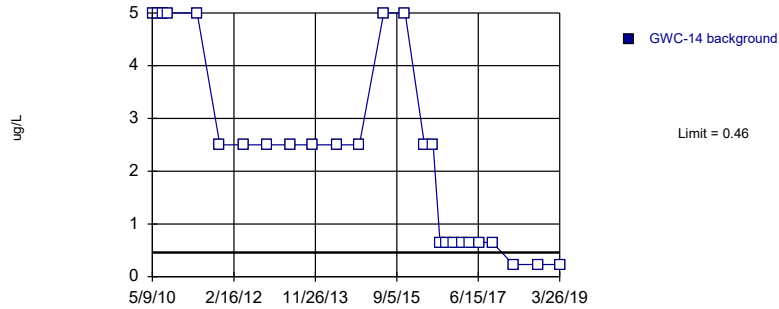
Prediction Limit Intrawell Non-parametric, GWC-13



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

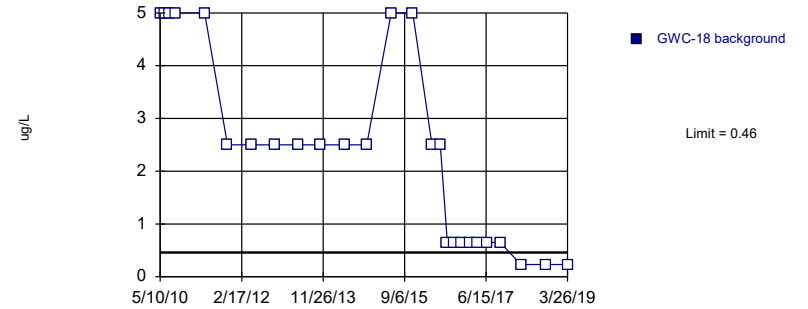
Prediction Limit
 Intrawell Non-parametric, GWC-14



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

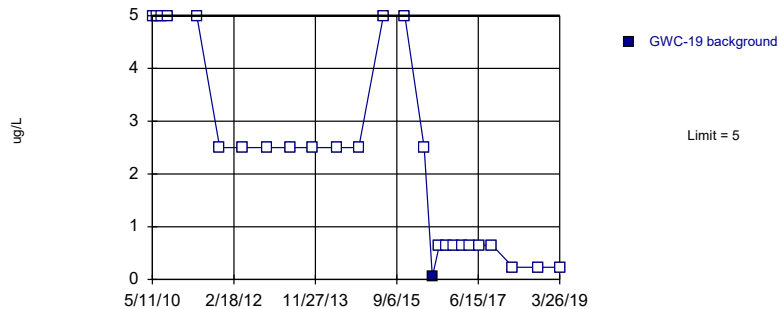
Prediction Limit
 Intrawell Non-parametric, GWC-18



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

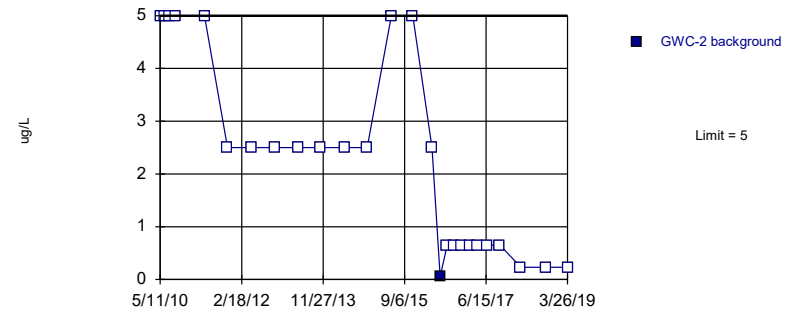
Prediction Limit
 Intrawell Non-parametric, GWC-19



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

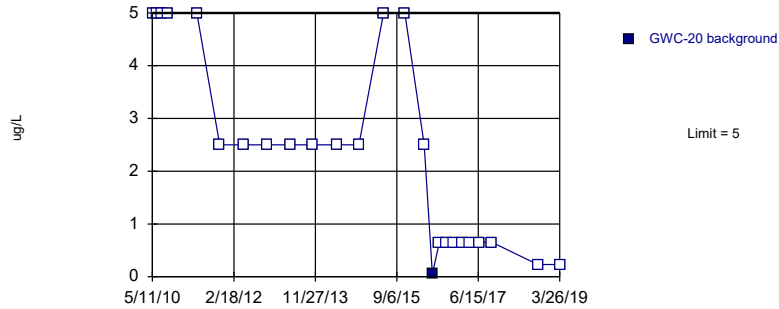
Prediction Limit
 Intrawell Non-parametric, GWC-2



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

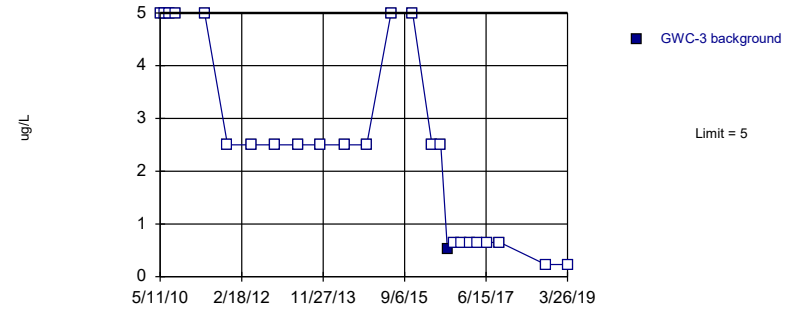
Prediction Limit
 Intrawell Non-parametric, GWC-20



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

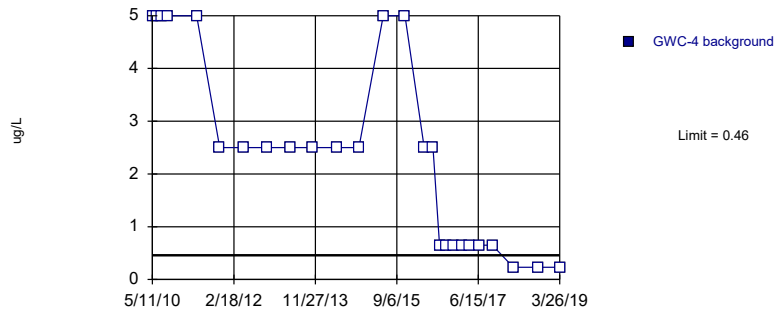
Prediction Limit
 Intrawell Non-parametric, GWC-3



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

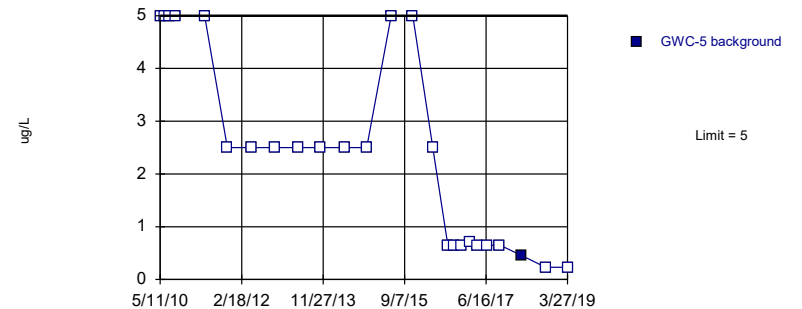
Prediction Limit
 Intrawell Non-parametric, GWC-4



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

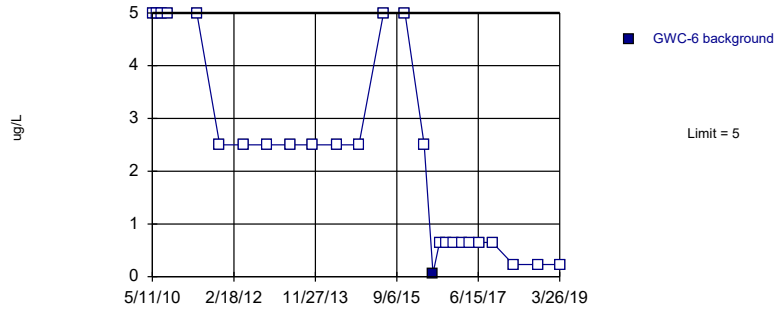
Prediction Limit
 Intrawell Non-parametric, GWC-5



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

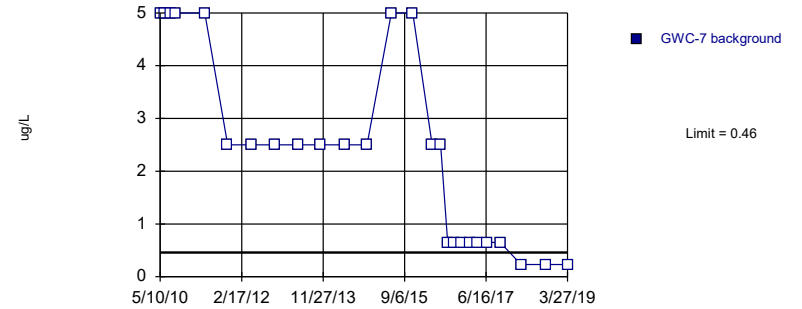
Prediction Limit
 Intrawell Non-parametric, GWC-6



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

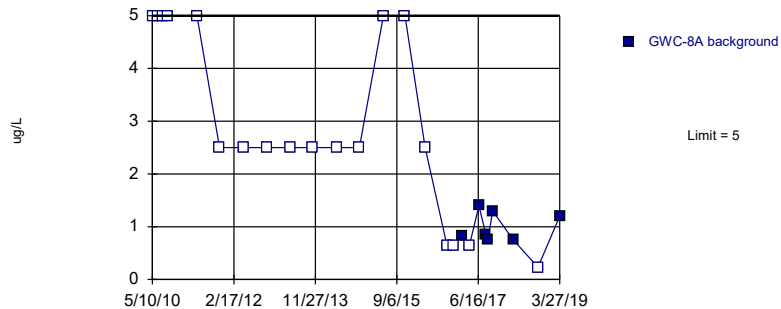
Prediction Limit
 Intrawell Non-parametric, GWC-7



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 26) were censored; limit is most recent reporting limit. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

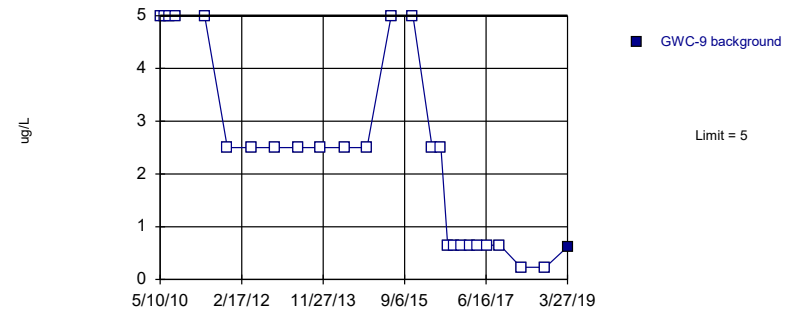
Prediction Limit
 Intrawell Non-parametric, GWC-8A



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 73.08% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

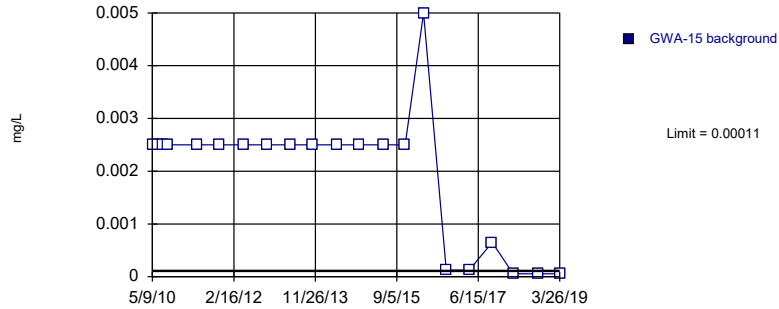
Prediction Limit
 Intrawell Non-parametric, GWC-9



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Report alpha = 0.03704. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Arsenic, Total Analysis Run 7/25/2019 2:23 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

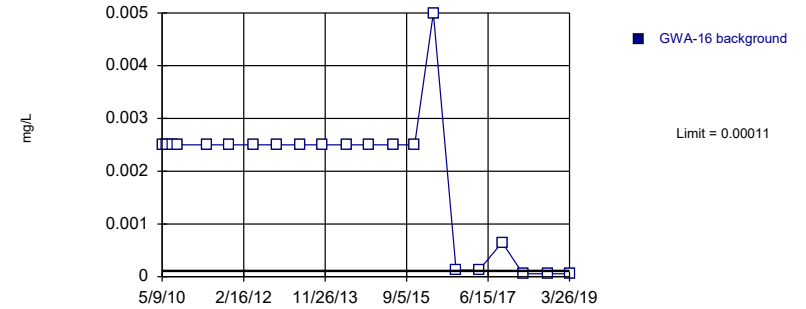
Prediction Limit
 Intrawell Non-parametric, GWA-15 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

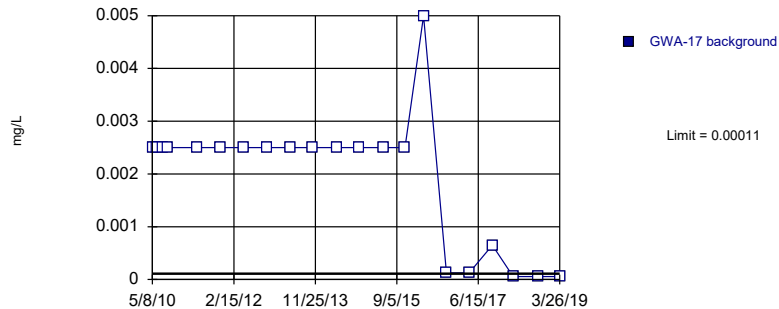
Prediction Limit
 Intrawell Non-parametric, GWA-16 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

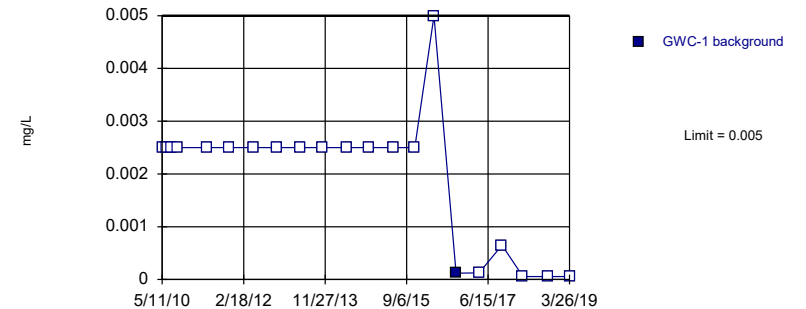
Prediction Limit
 Intrawell Non-parametric, GWA-17 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

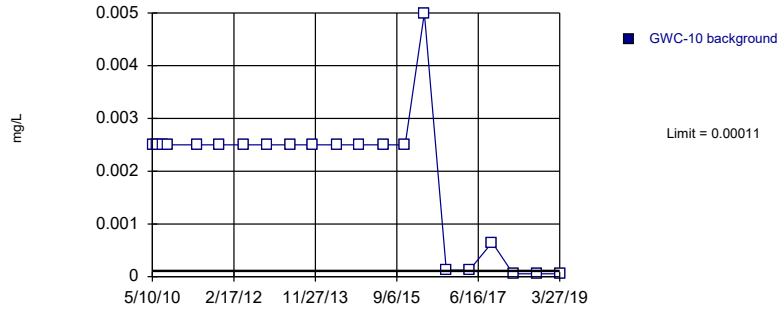
Prediction Limit
 Intrawell Non-parametric, GWC-1



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

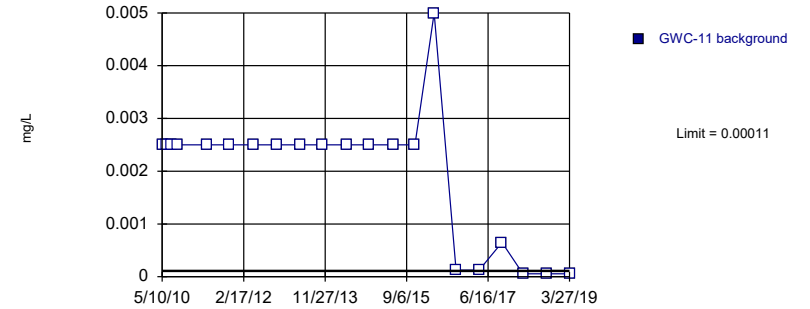
Prediction Limit
 Intrawell Non-parametric, GWC-10



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

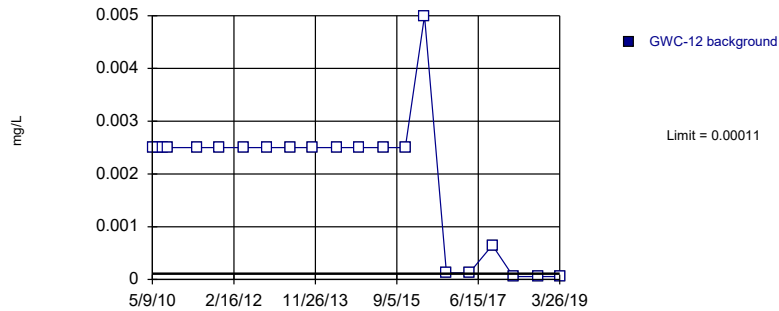
Prediction Limit
 Intrawell Non-parametric, GWC-11



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

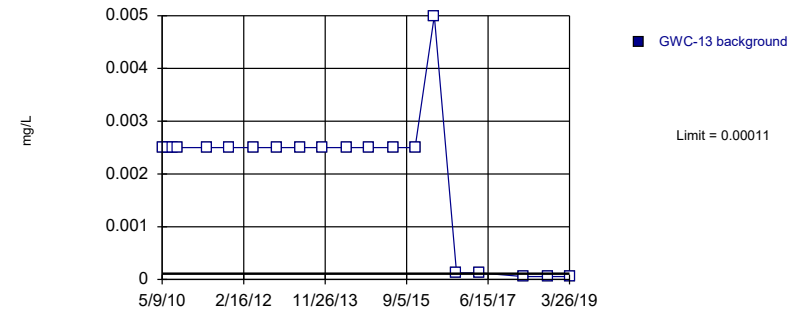
Prediction Limit
 Intrawell Non-parametric, GWC-12



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

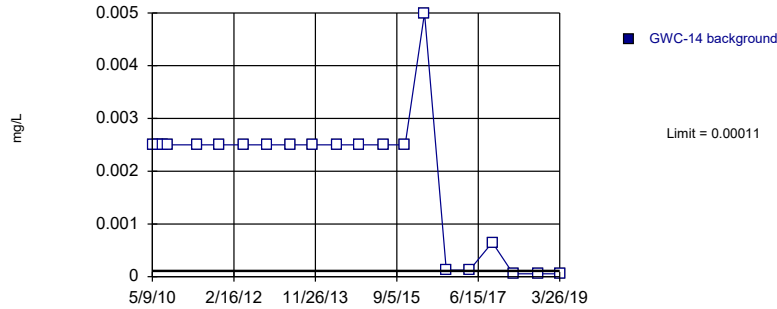
Prediction Limit
 Intrawell Non-parametric, GWC-13



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

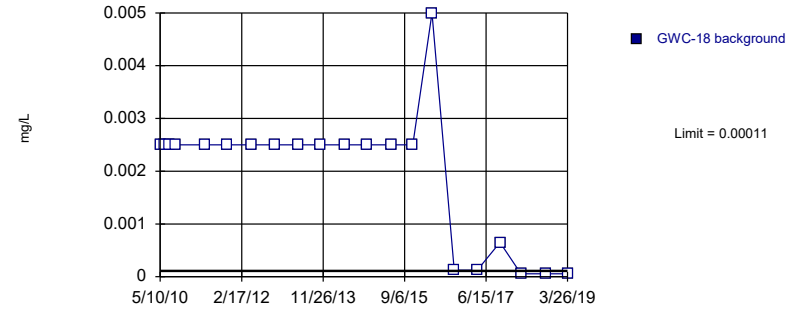
Prediction Limit
 Intrawell Non-parametric, GWC-14



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

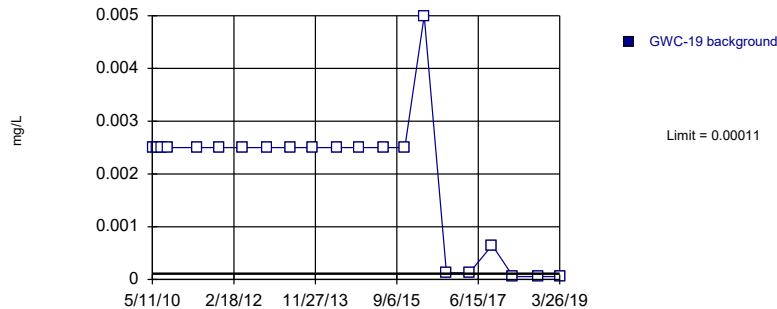
Prediction Limit
 Intrawell Non-parametric, GWC-18



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

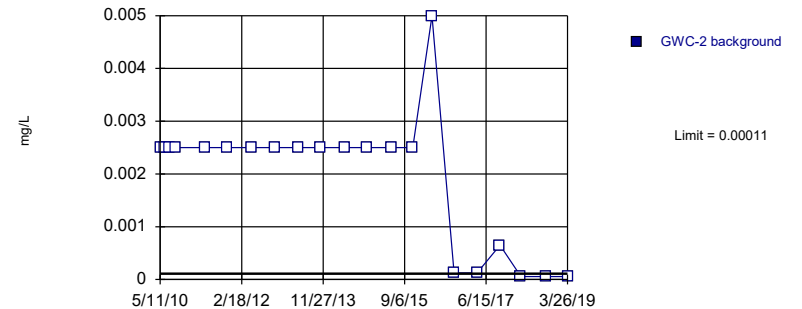
Prediction Limit
 Intrawell Non-parametric, GWC-19



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

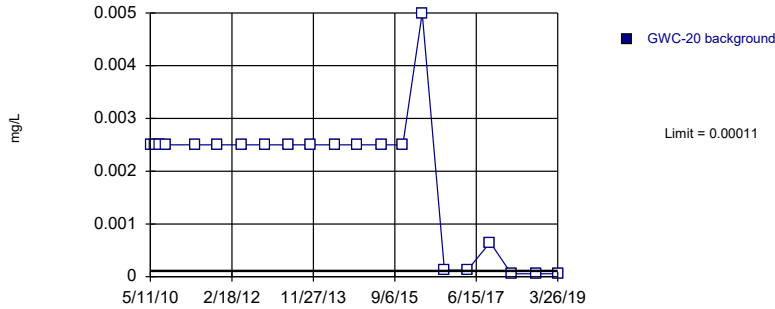
Prediction Limit
 Intrawell Non-parametric, GWC-2



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

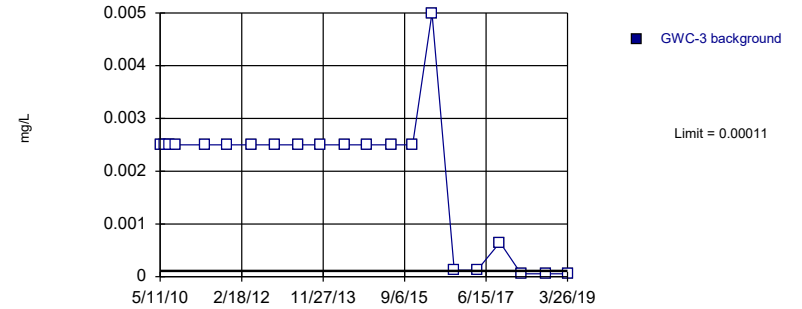
Prediction Limit Intrawell Non-parametric, GWC-20



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

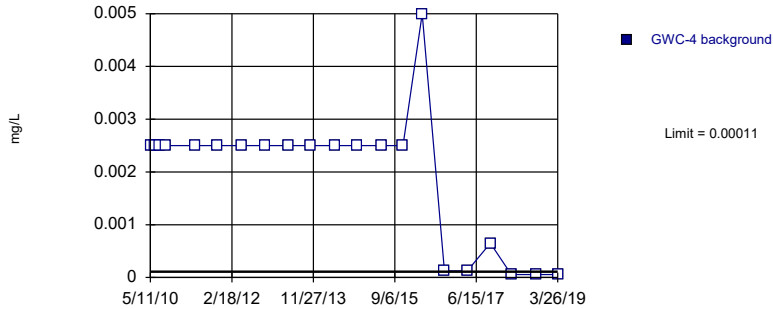
Prediction Limit Intrawell Non-parametric, GWC-3



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

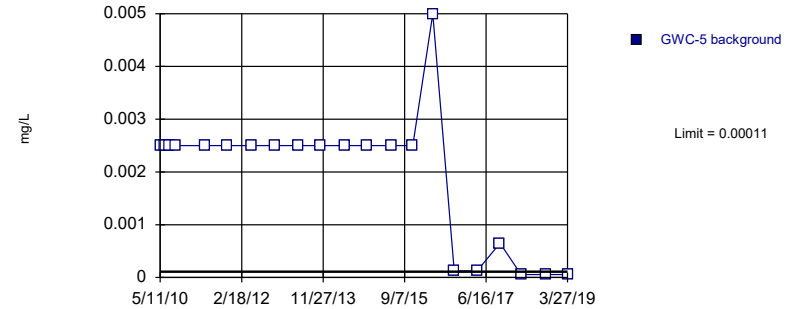
Prediction Limit Intrawell Non-parametric, GWC-4



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

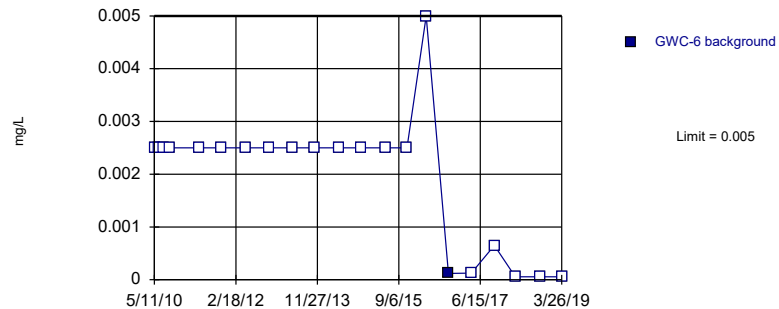
Prediction Limit Intrawell Non-parametric, GWC-5



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

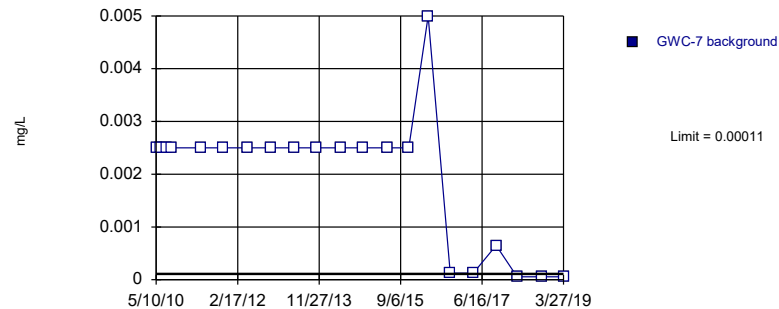
Prediction Limit
 Intrawell Non-parametric, GWC-6



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

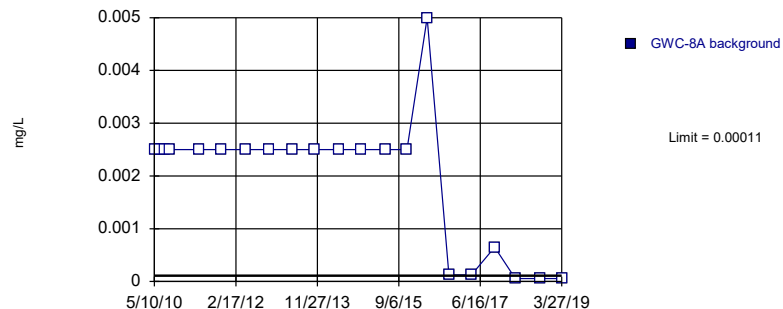
Prediction Limit
 Intrawell Non-parametric, GWC-7



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

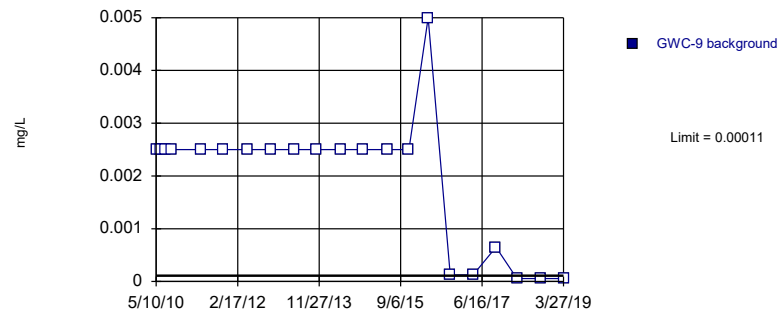
Prediction Limit
 Intrawell Non-parametric, GWC-8A



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Prediction Limit
 Intrawell Non-parametric, GWC-9



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Report alpha = 0.04545. Assumes 1 future value. Seasonality was not detected with 95% confidence.

Constituent: Silver Analysis Run 7/25/2019 2:24 PM View: Cell 1 Interwell PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 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>Transform</u>	<u>Alpha</u>	<u>Method</u>
Barium, Total (ug/L)	GWC-4	50.32	n/a	3/26/2019	53	Yes	25	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-6	0.01134	n/a	3/26/2019	0.012	Yes	17	5.882	x^2	0.01	Param Intra

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Barium, Total (ug/L)	GWA-15	12.32	n/a	3/26/2019	9.9	No	25	4	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWA-16	31.63	n/a	3/26/2019	24	No	25	0	No	0.01	Param Intra
Barium, Total (ug/L)	GWA-17	50.38	n/a	3/26/2019	31	No	25	4	No	0.01	Param Intra
Barium, Total (ug/L)	GWC-1	58.75	n/a	3/26/2019	44	No	25	0	x^(1/3)	0.01	Param Intra
Barium, Total (ug/L)	GWC-10	32.91	n/a	3/27/2019	27	No	25	8	x^2	0.01	Param Intra
Barium, Total (ug/L)	GWC-11	19.06	n/a	3/27/2019	16.26	No	25	8	x^4	0.01	Param Intra Deseas
Barium, Total (ug/L)	GWC-12	19.04	n/a	3/26/2019	17	No	25	8	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWC-13	45	n/a	3/26/2019	35	No	25	0	n/a	0.03846	NP Intra (normality)
Barium, Total (ug/L)	GWC-14	10.82	n/a	3/26/2019	9.2	No	23	4.348	x^4	0.01	Param Intra
Barium, Total (ug/L)	GWC-18	42.39	n/a	3/26/2019	34.47	No	25	4	x^3	0.01	Param Intra Deseas
Barium, Total (ug/L)	GWC-19	19.56	n/a	3/26/2019	18	No	25	4	x^6	0.01	Param Intra
Barium, Total (ug/L)	GWC-2	55	n/a	3/26/2019	45	No	25	0	n/a	0.03846	NP Intra (normality)
Barium, Total (ug/L)	GWC-20	36.12	n/a	3/26/2019	30	No	25	4	x^3	0.01	Param Intra
Barium, Total (ug/L)	GWC-3	39	n/a	3/26/2019	15	No	24	4.167	n/a	0.04	NP Intra (normality)
Barium, Total (ug/L)	GWC-4	50.32	n/a	3/26/2019	53	Yes	25	0	No	0.01	Param Intra
Barium, Total (ug/L)	GWC-5	196.8	n/a	3/27/2019	38	No	25	0	ln(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-6	66.58	n/a	3/26/2019	52	No	25	0	No	0.01	Param Intra
Barium, Total (ug/L)	GWC-7	42.12	n/a	3/27/2019	33	No	25	0	sqrt(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-8A	126.8	n/a	3/27/2019	25	No	25	0	sqrt(x)	0.01	Param Intra
Barium, Total (ug/L)	GWC-9	32.05	n/a	3/27/2019	23.98	No	25	4	No	0.01	Param Intra Deseas
Chromium, Total (ug/L)	GWA-15	1.1	n/a	3/26/2019	0.55ND	No	24	100	n/a	0.04	NP Intra (NDs)
Chromium, Total (ug/L)	GWA-16	7.074	n/a	3/26/2019	4.6	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWA-17	10.38	n/a	3/26/2019	6.5	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-1	16.73	n/a	3/26/2019	13	No	19	0	x^2	0.01	Param Intra
Chromium, Total (ug/L)	GWC-10	20	n/a	3/27/2019	17	No	11	0	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-11	12	n/a	3/27/2019	7	No	25	4	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-12	5	n/a	3/26/2019	1.3	No	24	41.67	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-13	7.7	n/a	3/26/2019	4.8	No	24	0	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-14	5	n/a	3/26/2019	0.55ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Chromium, Total (ug/L)	GWC-18	20	n/a	3/26/2019	14	No	25	0	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-19	14.91	n/a	3/26/2019	9.1	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-2	12.63	n/a	3/26/2019	9.6	No	25	8	x^3	0.01	Param Intra
Chromium, Total (ug/L)	GWC-20	15.03	n/a	3/26/2019	9.2	No	25	8	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-3	22	n/a	3/26/2019	7.5	No	24	4.167	n/a	0.04	NP Intra (normality)
Chromium, Total (ug/L)	GWC-4	10.65	n/a	3/26/2019	8.4	No	25	4	No	0.01	Param Intra
Chromium, Total (ug/L)	GWC-5	12	n/a	3/27/2019	3.9	No	25	4	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-6	9.957	n/a	3/26/2019	4.4	No	25	8	sqrt(x)	0.01	Param Intra
Chromium, Total (ug/L)	GWC-7	18	n/a	3/27/2019	8.8	No	25	0	n/a	0.03846	NP Intra (normality)
Chromium, Total (ug/L)	GWC-8A	38	n/a	3/27/2019	0.55ND	No	25	32	n/a	0.03846	NP Intra (Cohens/xform)
Chromium, Total (ug/L)	GWC-9	13.83	n/a	3/27/2019	8.533	No	25	4	sqrt(x)	0.01	Param Intra Deseas
Cobalt, Total (ug/L)	GWA-15	5	n/a	3/26/2019	1.9	No	24	62.5	n/a	0.04	NP Intra (NDs)
Cobalt, Total (ug/L)	GWA-16	5	n/a	3/26/2019	0.2ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Cobalt, Total (ug/L)	GWA-17	5	n/a	3/26/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-1	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-10	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-11	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-12	5	n/a	3/26/2019	0.2ND	No	25	80	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-13	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-14	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-18	0.4	n/a	3/26/2019	0.2ND	No	24	100	n/a	0.04	NP Intra (NDs)

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Cobalt, Total (ug/L)	GWC-19	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-2	6.287	n/a	3/26/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-20	5	n/a	3/26/2019	0.2ND	No	25	92	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-3	5	n/a	3/26/2019	0.2ND	No	23	86.96	n/a	0.04167	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-4	5	n/a	3/26/2019	0.96	No	25	92	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-5	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Cobalt, Total (ug/L)	GWC-6	5	n/a	3/26/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-7	5	n/a	3/27/2019	0.2ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-8A	5	n/a	3/27/2019	1.2	No	22	63.64	n/a	0.04348	NP Intra (NDs)
Cobalt, Total (ug/L)	GWC-9	6.287	n/a	3/27/2019	1.48653...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Copper (mg/L)	GWA-15	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWA-16	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWA-17	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-1	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-10	0.0021	n/a	3/27/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-11	0.0125	n/a	3/27/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-12	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-13	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-14	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-18	0.0125	n/a	3/26/2019	0.00105ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-19	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-2	0.0021	n/a	3/26/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-20	0.0125	n/a	3/26/2019	0.00105ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-3	0.0125	n/a	3/26/2019	0.00105ND	No	19	84.21	n/a	0.05	NP Intra (NDs)
Copper (mg/L)	GWC-4	0.0125	n/a	3/26/2019	0.0039	No	20	55	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-5	0.0021	n/a	3/27/2019	0.00105ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-6	0.0125	n/a	3/26/2019	0.00105ND	No	20	85	n/a	0.04762	NP Intra (NDs)
Copper (mg/L)	GWC-7	0.0125	n/a	3/27/2019	0.00105ND	No	19	78.95	n/a	0.05	NP Intra (NDs)
Copper (mg/L)	GWC-8A	0.18	n/a	3/27/2019	0.00105ND	No	20	20	n/a	0.04762	NP Intra (Cohens/xform)
Copper (mg/L)	GWC-9	0.0021	n/a	3/27/2019	0.00105ND	No	18	100	n/a	0.05263	NP Intra (NDs)
Lead, Total (ug/L)	GWA-15	4.418	n/a	3/26/2019	1.05666...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWA-16	5.1	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWA-17	4.36	n/a	3/26/2019	1.13333...	No	25	76	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-1	4.4	n/a	3/26/2019	0.175ND	No	24	66.67	n/a	0.04	NP Intra (NDs)
Lead, Total (ug/L)	GWC-10	7	n/a	3/27/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-11	5.1	n/a	3/27/2019	0.175ND	No	24	70.83	n/a	0.04	NP Intra (NDs)
Lead, Total (ug/L)	GWC-12	4.418	n/a	3/26/2019	1.05666...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-13	5	n/a	3/26/2019	0.175ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Lead, Total (ug/L)	GWC-14	0.35	n/a	3/26/2019	0.175ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Lead, Total (ug/L)	GWC-18	5.2	n/a	3/26/2019	0.175ND	No	25	72	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-19	5.6	n/a	3/26/2019	0.175ND	No	25	60	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-2	6.3	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-20	5.6	n/a	3/26/2019	0.175ND	No	25	68	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-3	11	n/a	3/26/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-4	6.2	n/a	3/26/2019	0.175ND	No	25	68	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-5	0.35	n/a	3/27/2019	0.175ND	No	19	100	n/a	0.05	NP Intra (NDs)
Lead, Total (ug/L)	GWC-6	6.7	n/a	3/26/2019	0.175ND	No	25	72	n/a	0.03846	NP Intra (NDs)
Lead, Total (ug/L)	GWC-7	5.76	n/a	3/27/2019	1.28777...	No	25	64	n/a	0.03846	NP Intra (NDs) Deseas
Lead, Total (ug/L)	GWC-8A	8.3	n/a	3/27/2019	0.175ND	No	20	65	n/a	0.04762	NP Intra (NDs)
Lead, Total (ug/L)	GWC-9	6.9	n/a	3/27/2019	0.175ND	No	25	64	n/a	0.03846	NP Intra (NDs)

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

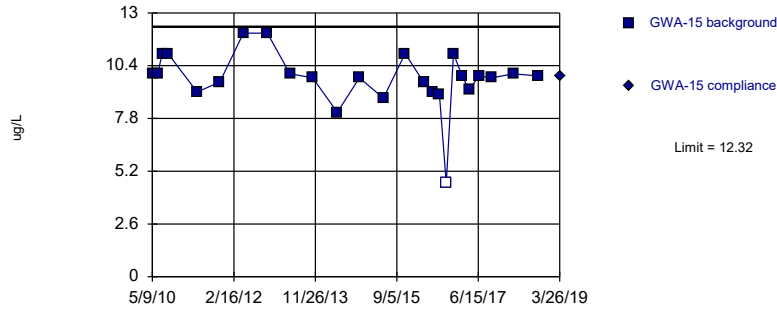
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Nickel (mg/L)	GWA-15	0.003056	n/a	3/26/2019	0.00145...	No	20	95	n/a	0.04762	NP Intra (NDs) Deseas
Nickel (mg/L)	GWA-16	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWA-17	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-1	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-10	0.00323	n/a	3/27/2019	0.00162...	No	19	94.74	n/a	0.05	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-11	0.0018	n/a	3/27/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-12	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-13	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-14	0.0018	n/a	3/26/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-18	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-19	0.0018	n/a	3/26/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-2	0.003123	n/a	3/26/2019	0.00152...	No	19	84.21	n/a	0.05	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-20	0.005	n/a	3/26/2019	0.0009ND	No	19	89.47	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-3	0.005	n/a	3/26/2019	0.0009ND	No	17	82.35	n/a	0.05556	NP Intra (NDs)
Nickel (mg/L)	GWC-4	0.005	n/a	3/26/2019	0.0036	No	20	95	n/a	0.04762	NP Intra (NDs)
Nickel (mg/L)	GWC-5	0.00268	n/a	3/27/2019	0.0009ND	No	19	84.21	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-6	0.0018	n/a	3/26/2019	0.0009ND	No	16	100	n/a	0.05882	NP Intra (NDs)
Nickel (mg/L)	GWC-7	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	0.05	NP Intra (NDs)
Nickel (mg/L)	GWC-8A	0.004766	n/a	3/27/2019	0.00170...	No	17	58.82	n/a	0.05556	NP Intra (NDs) Deseas
Nickel (mg/L)	GWC-9	0.0018	n/a	3/27/2019	0.0009ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-15	10	n/a	3/26/2019	0.355ND	No	25	96	n/a	0.03846	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-16	10	n/a	3/26/2019	0.355ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWA-17	9.409	n/a	3/26/2019	2.88250...	No	24	95.83	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-1	10	n/a	3/26/2019	0.355ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-10	0.24	n/a	3/27/2019	0.355ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-11	5	n/a	3/27/2019	0.355ND	No	23	95.65	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-12	9.418	n/a	3/26/2019	2.88250...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-13	9.418	n/a	3/26/2019	2.88250...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-14	10	n/a	3/26/2019	0.355ND	No	24	95.83	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-18	9.36	n/a	3/26/2019	2.82472...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-19	9.36	n/a	3/26/2019	2.82472...	No	24	100	n/a	0.04	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-2	0.24	n/a	3/26/2019	0.355ND	No	22	100	n/a	0.04348	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-20	9.418	n/a	3/26/2019	2.88250...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-3	9.418	n/a	3/26/2019	2.88250...	No	25	96	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-4	9.418	n/a	3/26/2019	2.79416...	No	25	100	n/a	0.03846	NP Intra (NDs) Deseas
Selenium, Total (ug/L)	GWC-5	69.84	n/a	3/27/2019	23	No	13	0	No	0.01	Param Intra
Selenium, Total (ug/L)	GWC-6	10	n/a	3/26/2019	0.355ND	No	24	75	n/a	0.04	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-7	0.24	n/a	3/27/2019	0.355ND	No	23	100	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-8A	5	n/a	3/27/2019	0.355ND	No	23	91.3	n/a	0.04167	NP Intra (NDs)
Selenium, Total (ug/L)	GWC-9	0.24	n/a	3/27/2019	0.355ND	No	24	100	n/a	0.04	NP Intra (NDs)
Vanadium (mg/L)	GWA-15	0.005	n/a	3/26/2019	0.0007ND	No	20	85	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWA-16	0.01243	n/a	3/26/2019	0.007	No	20	5	sqrt(x)	0.01	Param Intra
Vanadium (mg/L)	GWA-17	0.0144	n/a	3/26/2019	0.0051	No	20	20	No	0.01	Param Intra
Vanadium (mg/L)	GWC-1	0.02419	n/a	3/26/2019	0.017	No	14	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-10	0.01747	n/a	3/27/2019	0.012	No	20	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-11	0.01464	n/a	3/27/2019	0.012	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-12	0.005	n/a	3/26/2019	0.0029	No	20	90	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWC-13	0.005	n/a	3/26/2019	0.0041	No	20	85	n/a	0.04762	NP Intra (NDs)
Vanadium (mg/L)	GWC-14	0.006028	n/a	3/26/2019	0.004428	No	20	90	n/a	0.04762	NP Intra (NDs) Deseas
Vanadium (mg/L)	GWC-18	0.01	n/a	3/26/2019	0.0094	No	20	5	n/a	0.04762	NP Intra (normality)

Prediction Limit

Scherer Client: Golder Associates Data: Scherer Cell 1 LF Printed 7/25/2019, 2:12 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Vanadium (mg/L)	GWC-19	0.01053	n/a	3/26/2019	0.0094	No	20	0	No	0.01	Param Intra
Vanadium (mg/L)	GWC-2	0.02062	n/a	3/26/2019	0.016	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-20	0.02341	n/a	3/26/2019	0.018	No	20	5	x^2	0.01	Param Intra
Vanadium (mg/L)	GWC-3	0.01174	n/a	3/26/2019	0.0076	No	19	5.263	sqrt(x)	0.01	Param Intra
Vanadium (mg/L)	GWC-4	0.01211	n/a	3/26/2019	0.011	No	20	5	No	0.01	Param Intra
Vanadium (mg/L)	GWC-5	0.01736	n/a	3/27/2019	0.002	No	20	30	No	0.01	Param Intra
Vanadium (mg/L)	GWC-6	0.01134	n/a	3/26/2019	0.012	Yes	17	5.882	x^2	0.01	Param Intra
Vanadium (mg/L)	GWC-7	0.015	n/a	3/27/2019	0.013	No	19	5.263	n/a	0.05	NP Intra (normality)
Vanadium (mg/L)	GWC-8A	0.0457	n/a	3/27/2019	0.003	No	17	5.882	No	0.01	Param Intra
Vanadium (mg/L)	GWC-9	0.0261	n/a	3/27/2019	0.019	No	20	5	No	0.01	Param Intra
Zinc (mg/L)	GWA-15	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWA-16	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWA-17	0.01	n/a	3/26/2019	0.00325ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-1	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-10	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-11	0.0126	n/a	3/27/2019	0.00585...	No	19	89.47	n/a	0.05	NP Intra (NDs) Deseas
Zinc (mg/L)	GWC-12	0.01	n/a	3/26/2019	0.00325ND	No	20	95	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-13	0.01	n/a	3/26/2019	0.00325ND	No	20	90	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-14	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-18	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-19	0.0065	n/a	3/26/2019	0.00325ND	No	19	100	n/a	0.05	NP Intra (NDs)
Zinc (mg/L)	GWC-2	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-20	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-3	0.0065	n/a	3/26/2019	0.00325ND	No	17	100	n/a	0.05556	NP Intra (NDs)
Zinc (mg/L)	GWC-4	0.01295	n/a	3/26/2019	0.00620...	No	20	95	n/a	0.04762	NP Intra (NDs) Deseas
Zinc (mg/L)	GWC-5	0.01	n/a	3/27/2019	0.00325ND	No	19	78.95	n/a	0.05	NP Intra (NDs)
Zinc (mg/L)	GWC-6	0.0065	n/a	3/26/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-7	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)
Zinc (mg/L)	GWC-8A	0.085	n/a	3/27/2019	0.00325ND	No	17	29.41	n/a	0.05556	NP Intra (Cohens/xform)
Zinc (mg/L)	GWC-9	0.0065	n/a	3/27/2019	0.00325ND	No	20	100	n/a	0.04762	NP Intra (NDs)

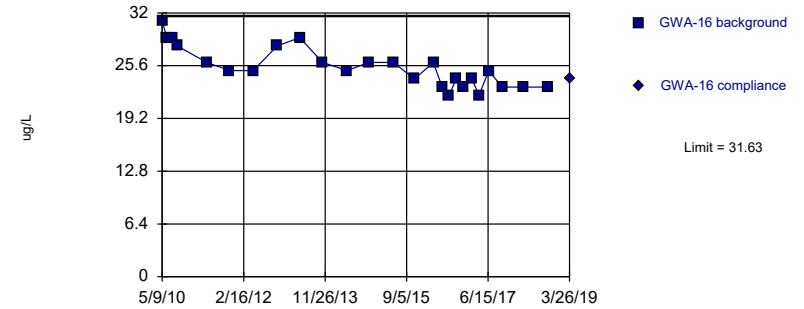
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=984.3, Std. Dev.=348.3, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9203, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

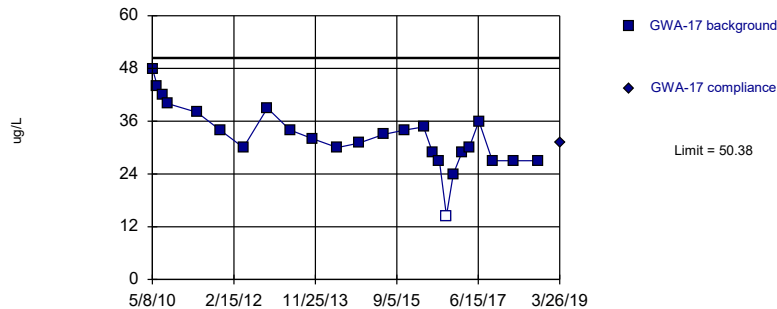
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=25.4, Std. Dev.=2.449, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9295, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

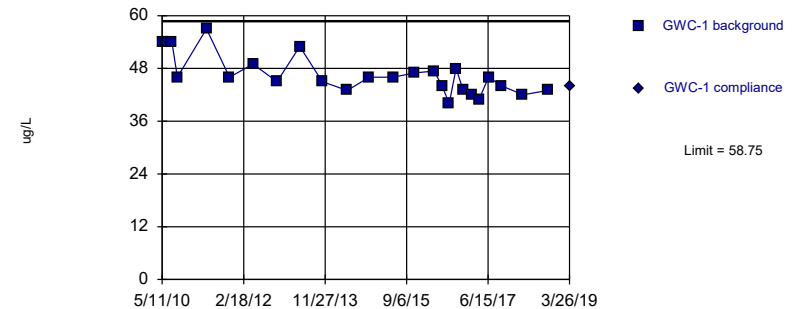
Within Limit Prediction Limit
 Intrawell Parametric



Background Data Summary: Mean=32.57, Std. Dev.=7.007, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9694, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit
 Intrawell Parametric



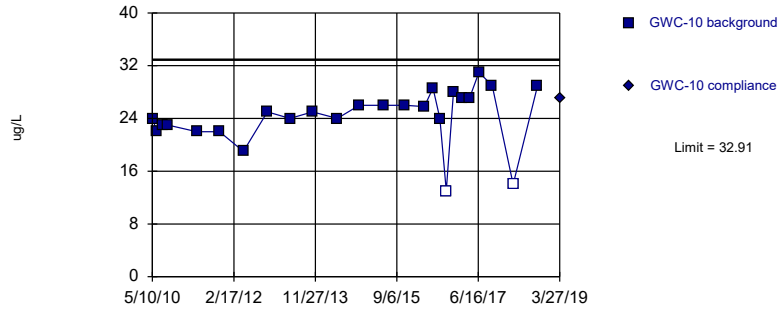
Background Data Summary (based on cube root transformation): Mean=3.595, Std. Dev.=0.1149, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9211, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



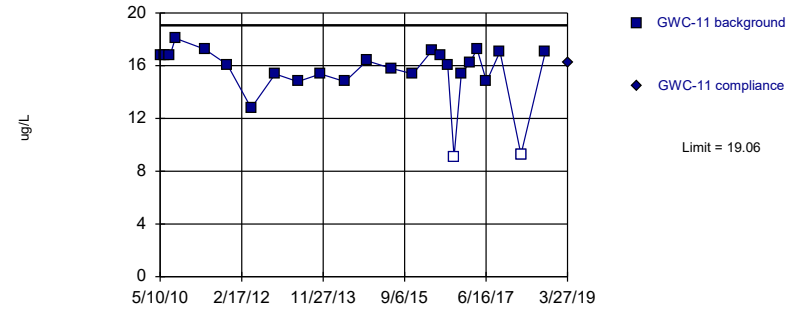
Background Data Summary (based on square transformation): Mean=607.5, Std. Dev.=187.2, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9552, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



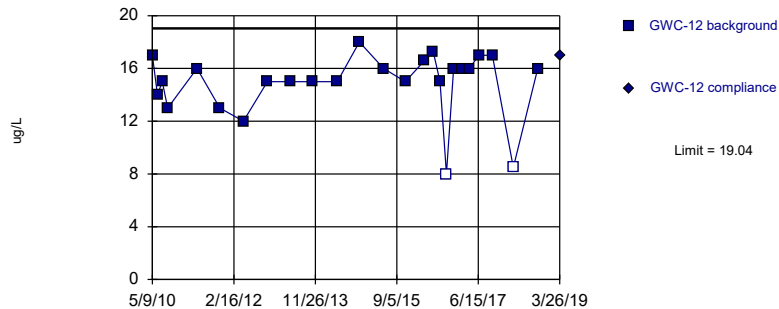
Background Data Summary (based on x^4 transformation): Mean=66150, Std. Dev.=25931, n=25, 8% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9216, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



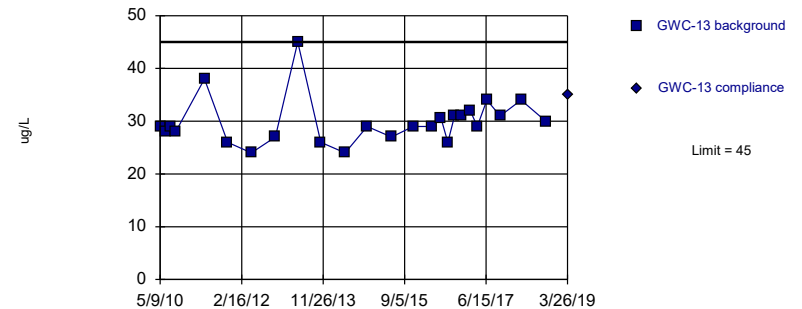
Background Data Summary (based on cube transformation): Mean=3541, Std. Dev.=1322, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9317, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA

Within Limit

Prediction Limit
Intrawell 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 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

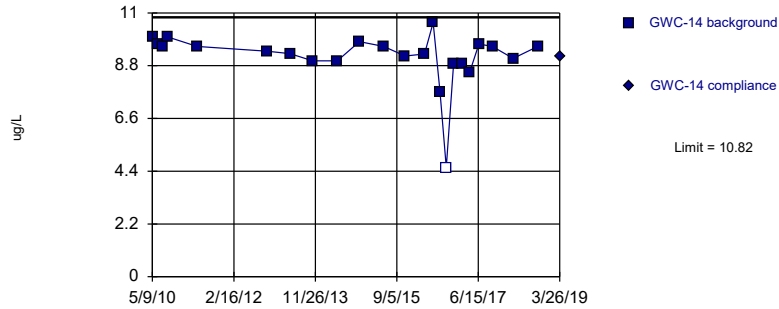
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=7548, Std. Dev.=2400, n=23, 4.348% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9155, critical = 0.914. Report alpha = 0.01. Most recent point compared to limit.

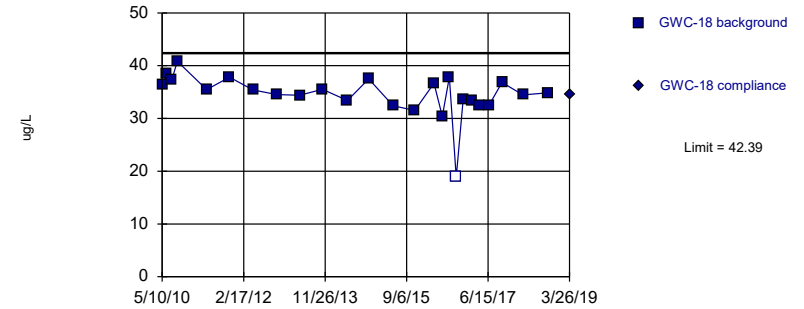
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=43231, Std. Dev.=12957, n=25, 4% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9465, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

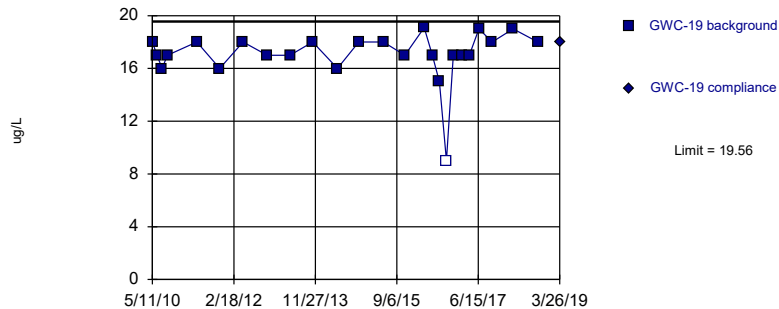
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=2.8e7, Std. Dev.=1.1e7, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9249, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

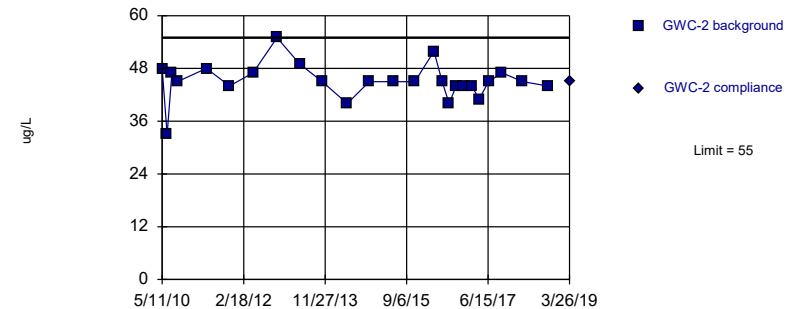
Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA

Within Limit

Prediction Limit

Intrawell Non-parametric



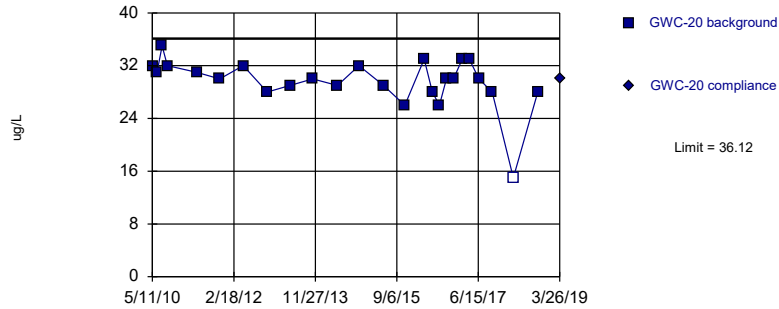
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

Intrawell Parametric



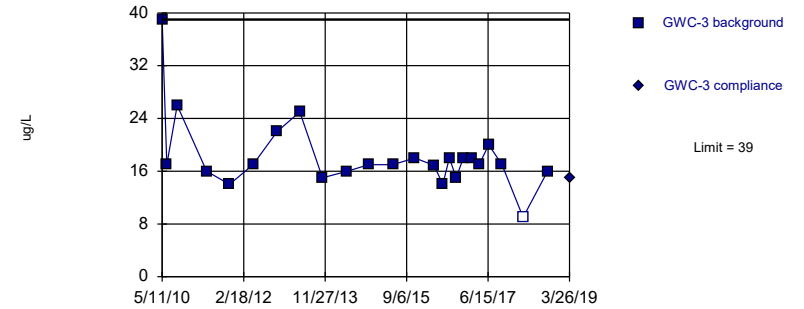
Background Data Summary (based on cube transformation): Mean=27034, Std. Dev.=7901, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9415, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

Intrawell Non-parametric



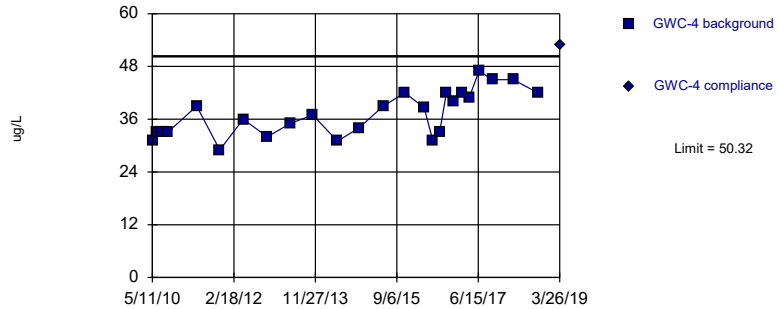
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. 4.167% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Exceeds Limit

Prediction Limit

Intrawell Parametric



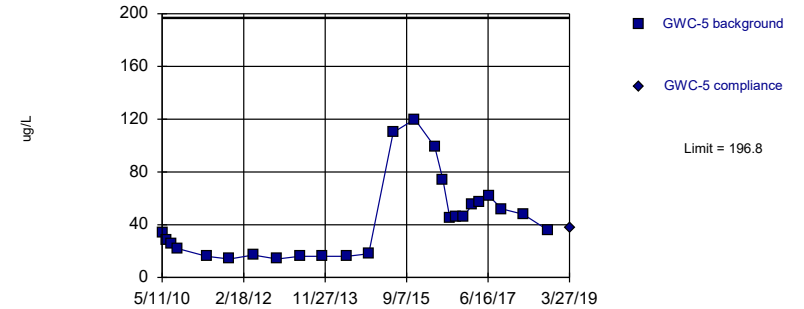
Background Data Summary: Mean=37.22, Std. Dev.=5.153, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9436, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit

Intrawell Parametric

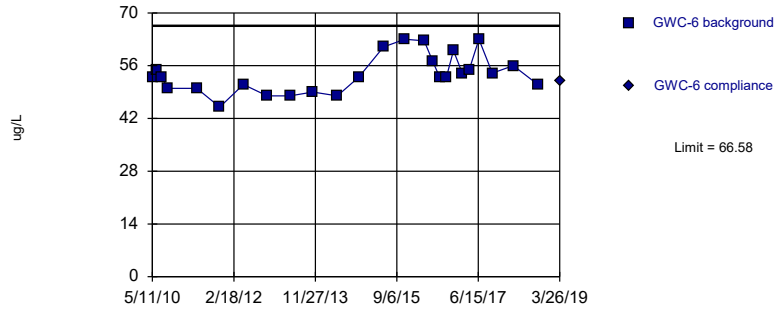


Background Data Summary (based on natural log transformation): Mean=3.549, Std. Dev.=0.6818, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9233, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

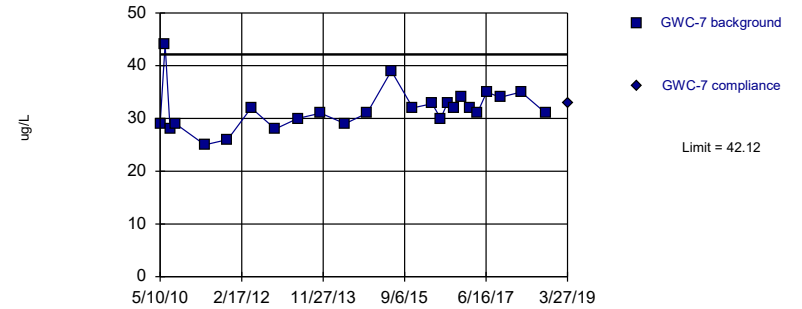


Background Data Summary: Mean=53.82, Std. Dev.=5.017, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.939, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

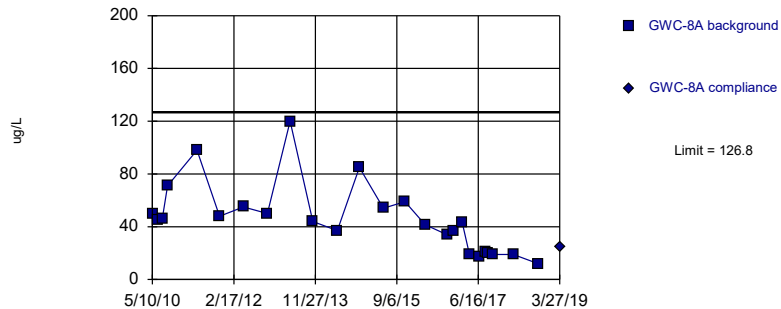


Background Data Summary (based on square root transformation): Mean=5.621, Std. Dev.=0.3417, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9354, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

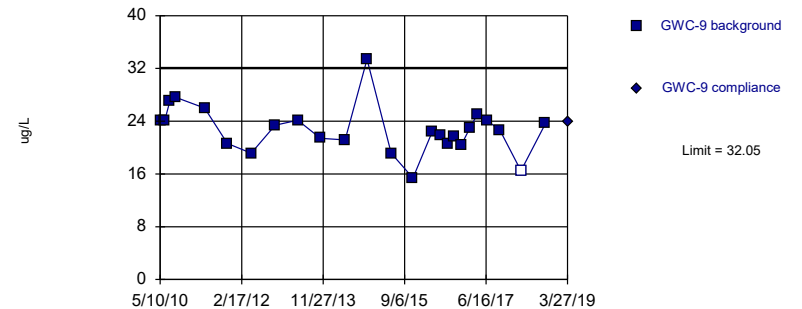


Background Data Summary (based on square root transformation): Mean=6.514, Std. Dev.=1.867, n=25. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9488, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

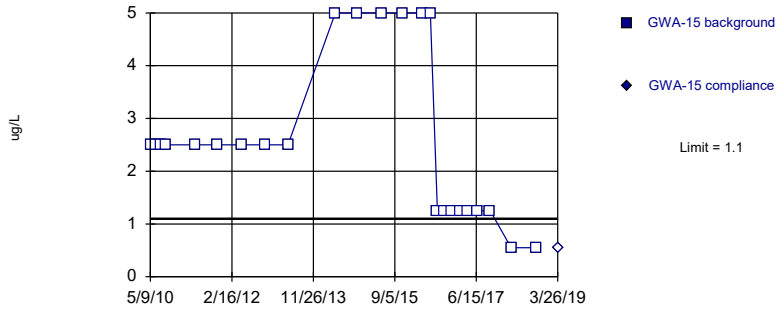


Background Data Summary: Mean=22.75, Std. Dev.=3.659, n=25, 4% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9526, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Barium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

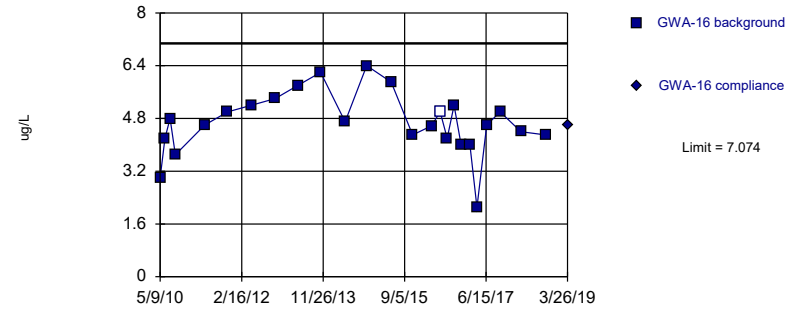


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

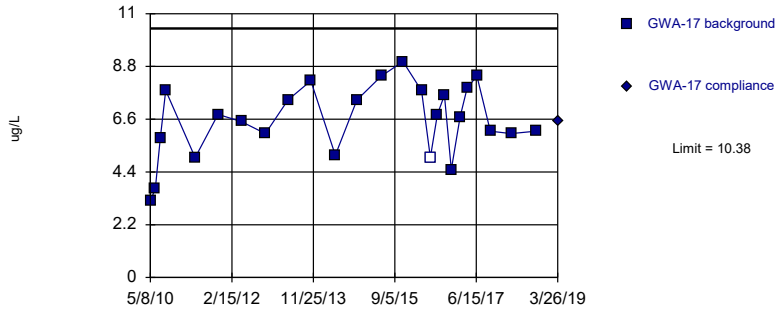


Background Data Summary: Mean=4.663, Std. Dev.=0.9487, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9616, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

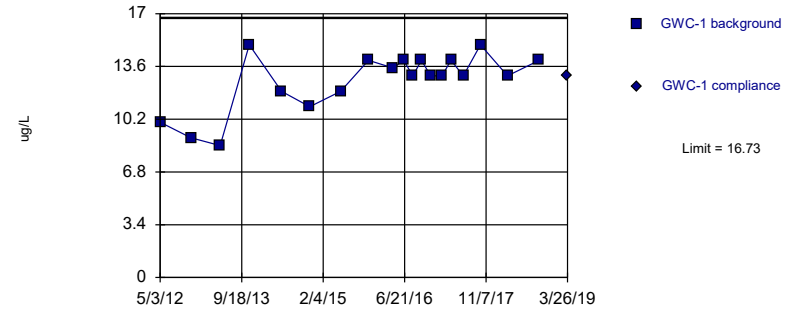


Background Data Summary: Mean=6.528, Std. Dev.=1.517, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9647, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

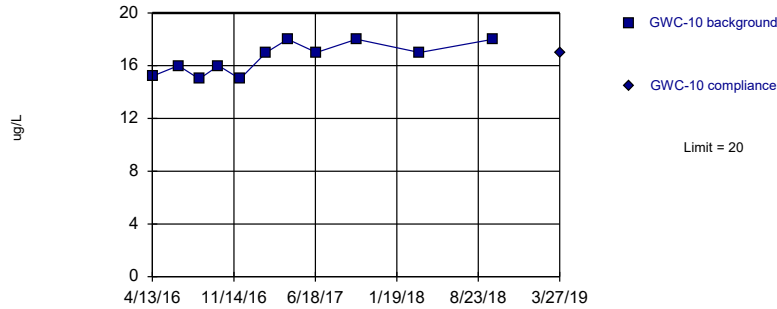


Background Data Summary (based on square transformation): Mean=164.2, Std. Dev.=44.14, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9083, critical = 0.901. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

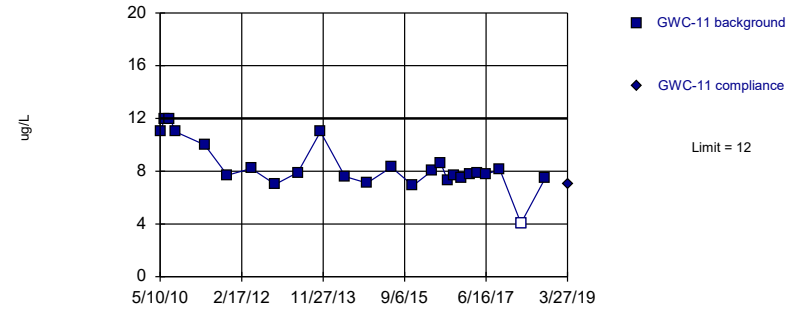


Background Data Summary: Mean=16.56, Std. Dev.=1.189, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8759, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit
Hollow symbols indicate censored values.

Prediction Limit
Intrawell Non-parametric

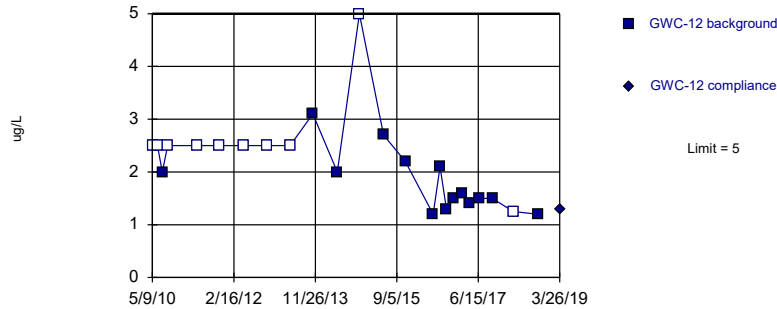


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. 4% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

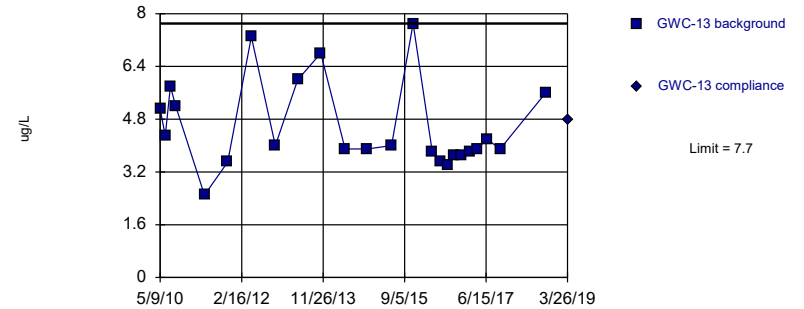


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. 41.67% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

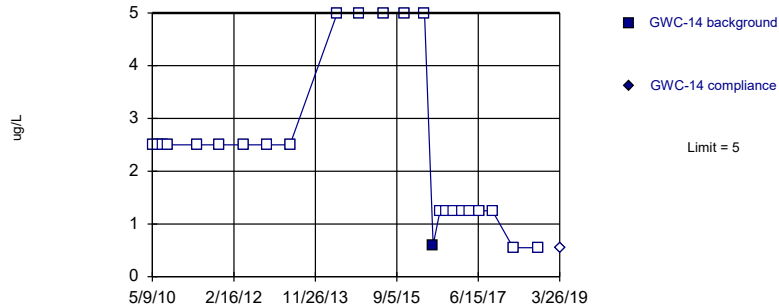


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 24 background values. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

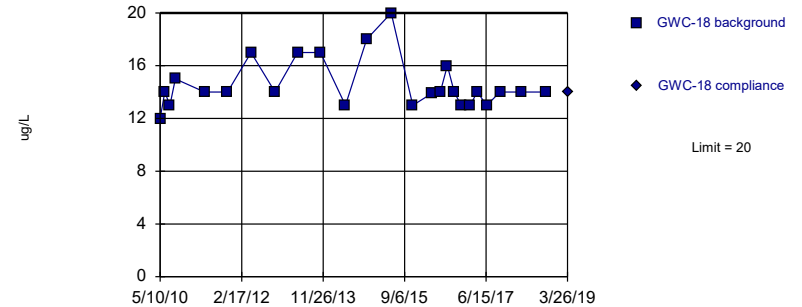


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

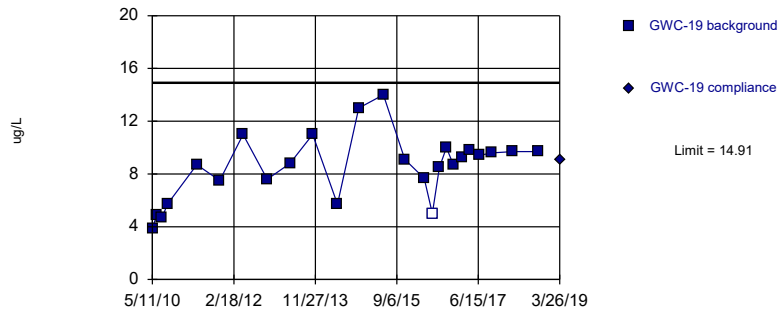


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Parametric

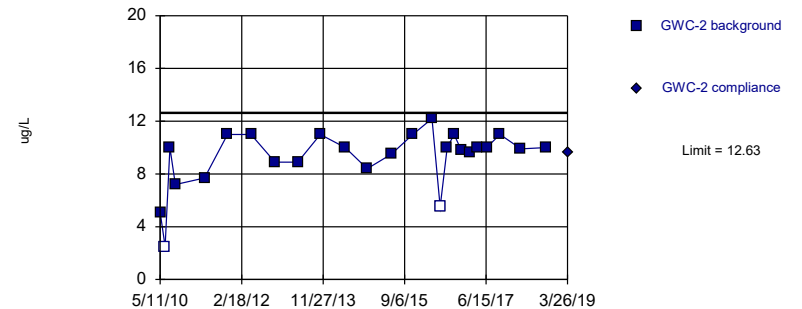


Background Data Summary: Mean=8.519, Std. Dev.=2.517, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9544, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=904.1, Std. Dev.=436.6, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9425, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

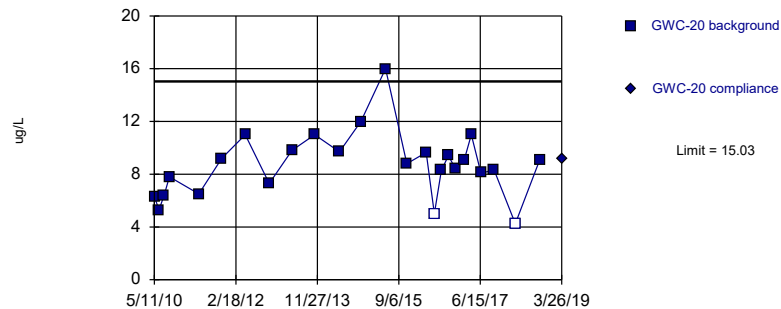
Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.708, Std. Dev.=2.489, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9509, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

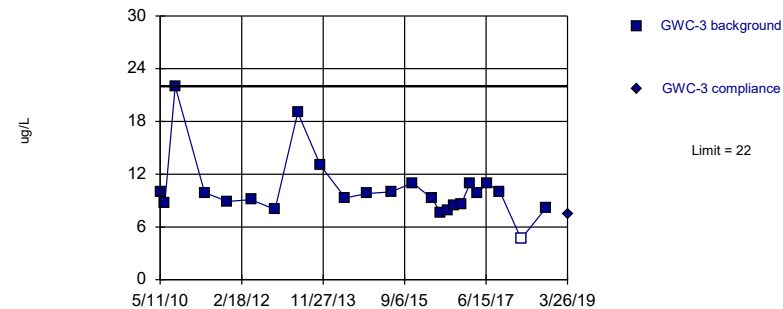
Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 0.05 alpha level. Limit is highest of 24 background values. 4.167% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

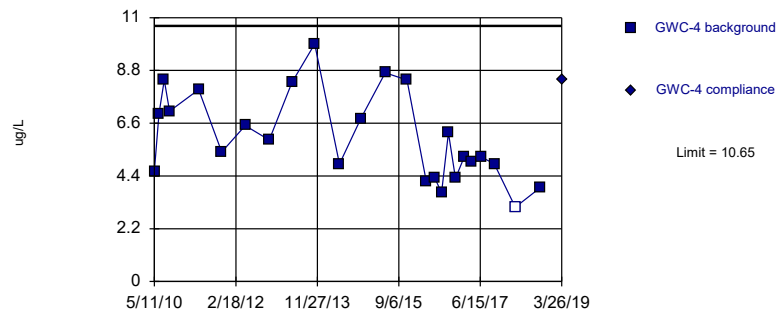
Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.996, Std. Dev.=1.833, n=25, 4% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9494, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

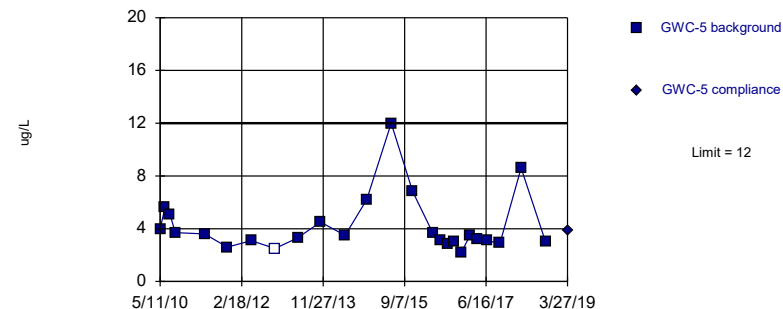
Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric

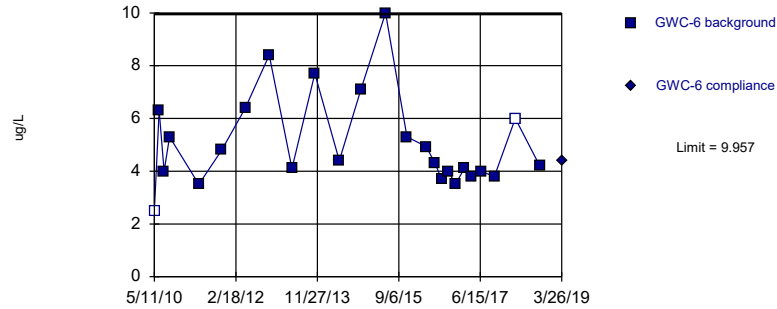


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. 4% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

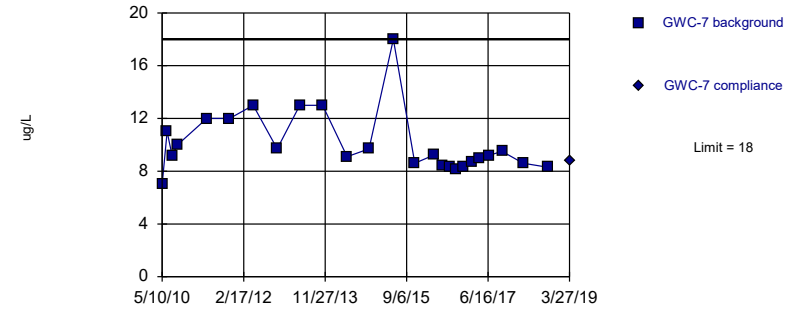


Background Data Summary (based on square root transformation): Mean=2.217, Std. Dev.=0.3693, n=25, 8% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9183, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

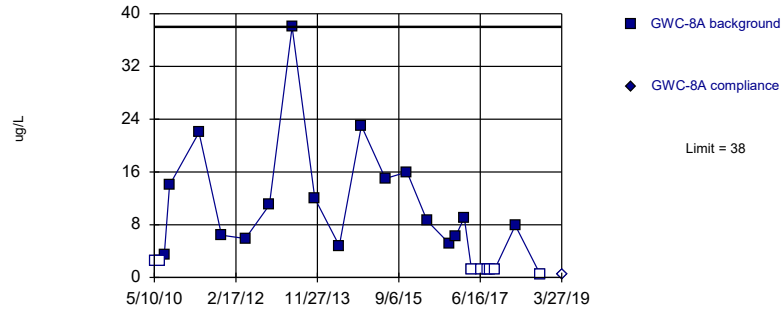


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 25 background values. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

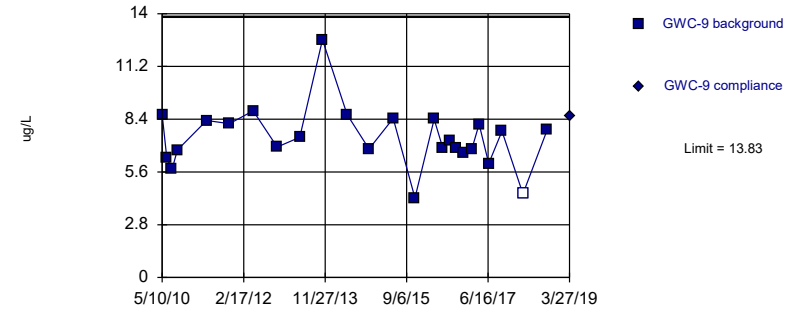


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 25 background values. 32% NDs. Seasonality was not detected with 95% confidence.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

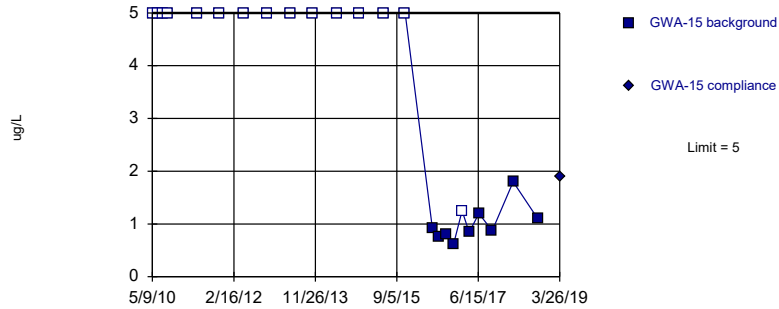


Background Data Summary (based on square root transformation): Mean=2.708, Std. Dev.=0.3979, n=25, 4% NDs. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9242, critical = 0.918. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chromium, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

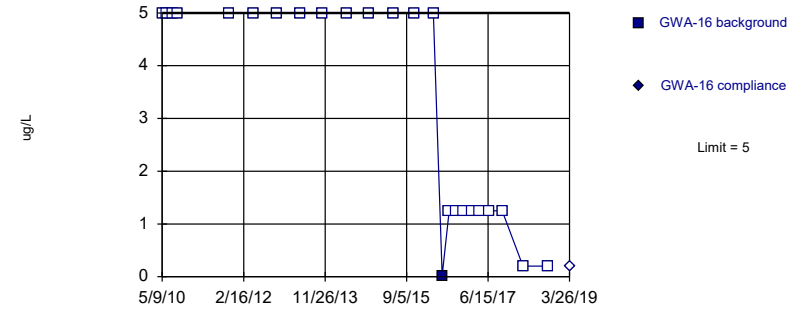


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

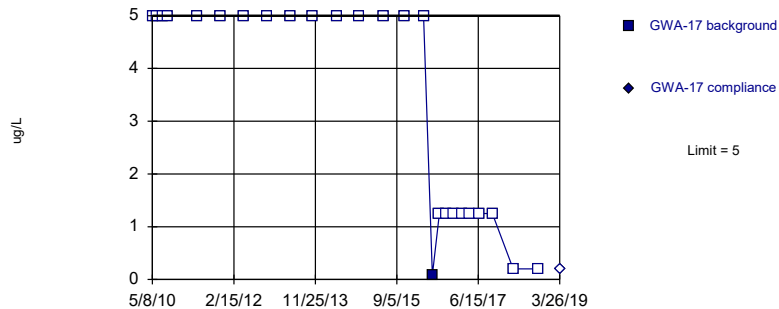


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

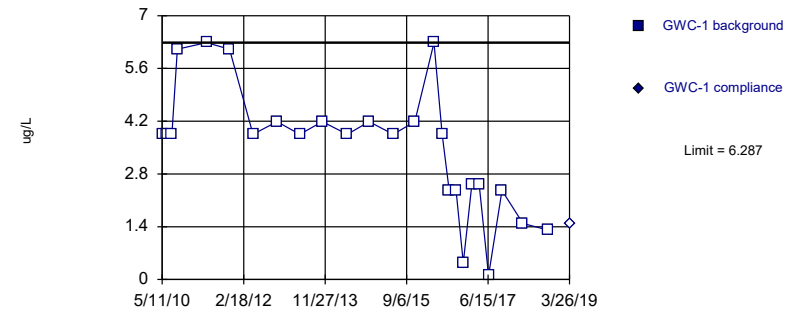


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

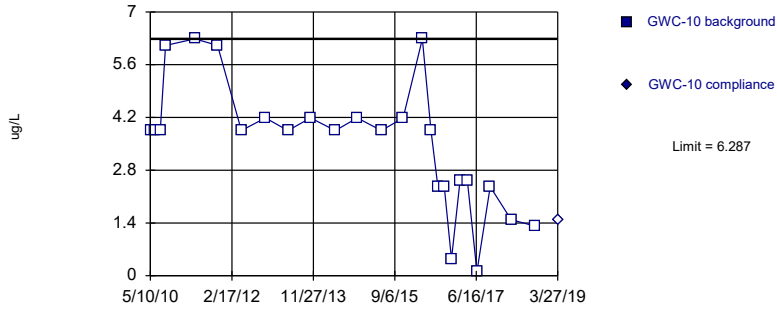


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:04 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

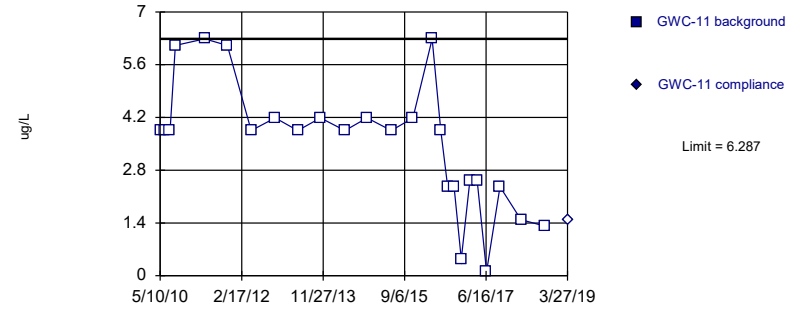


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

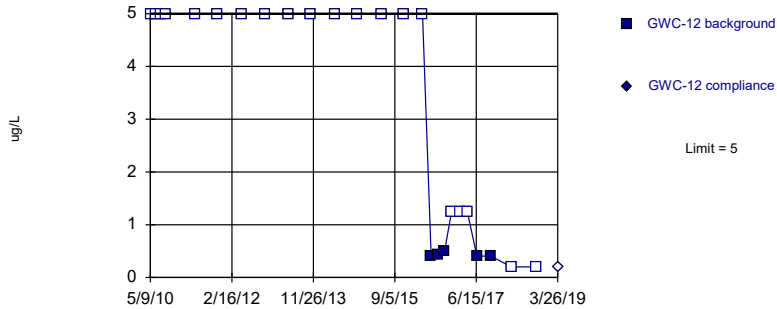


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

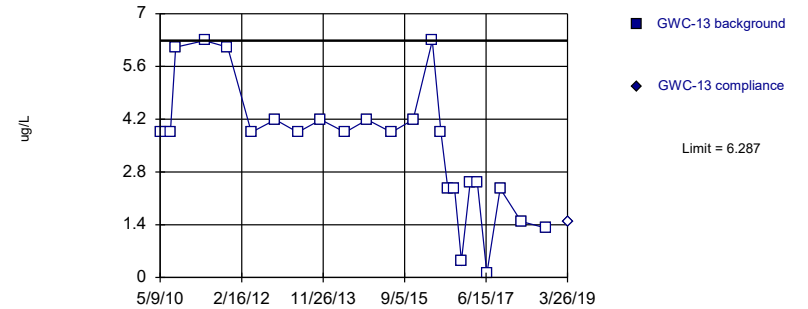


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 80% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

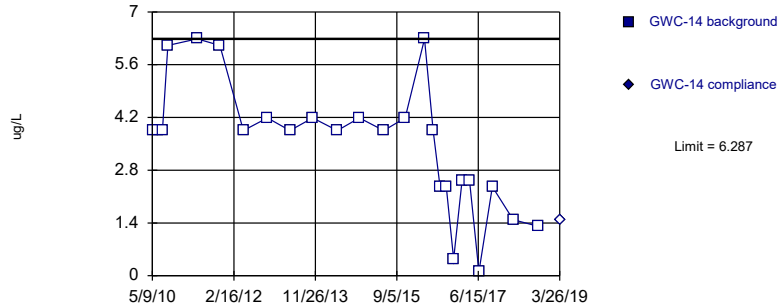


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

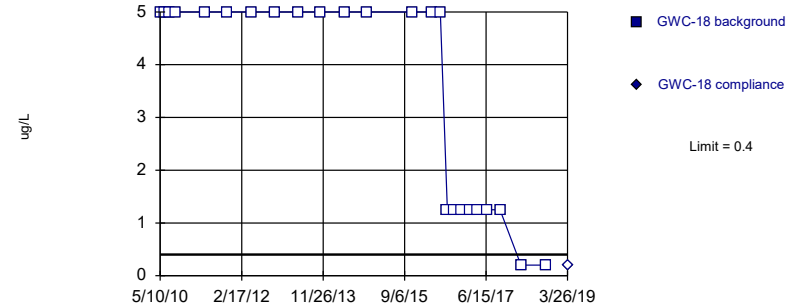


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

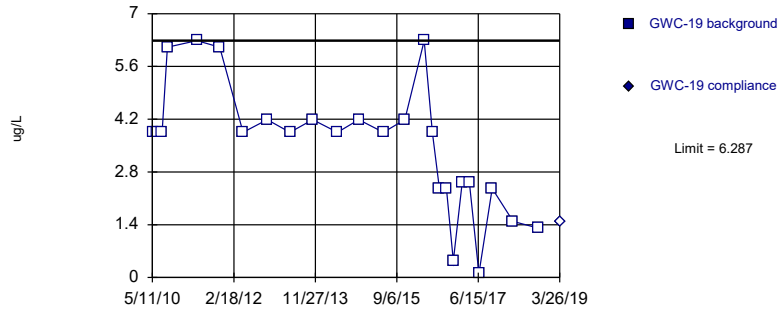


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

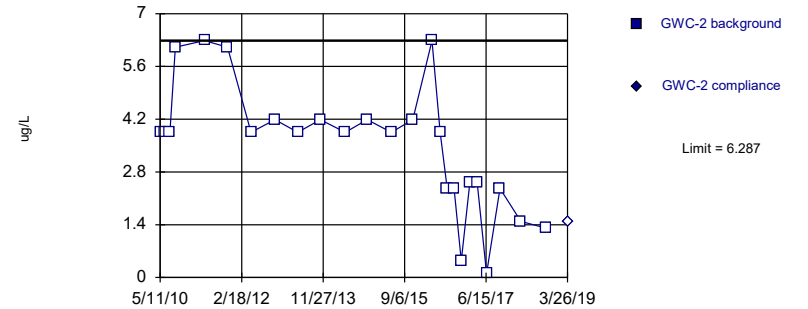


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

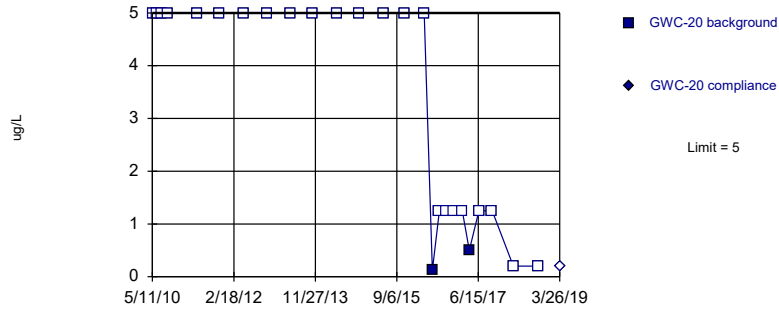


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

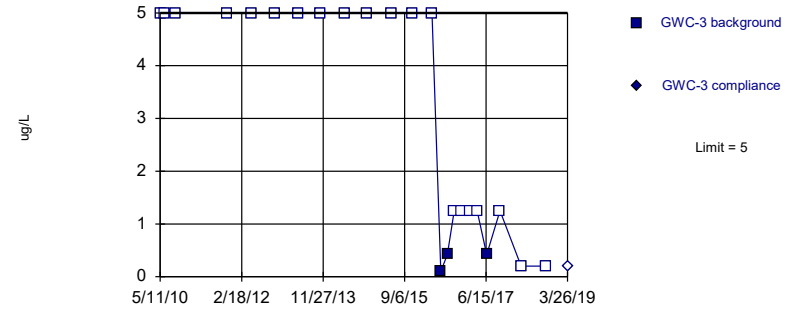


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

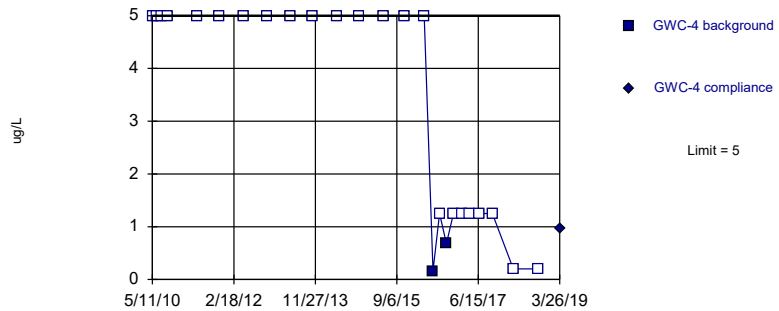


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 86.96% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

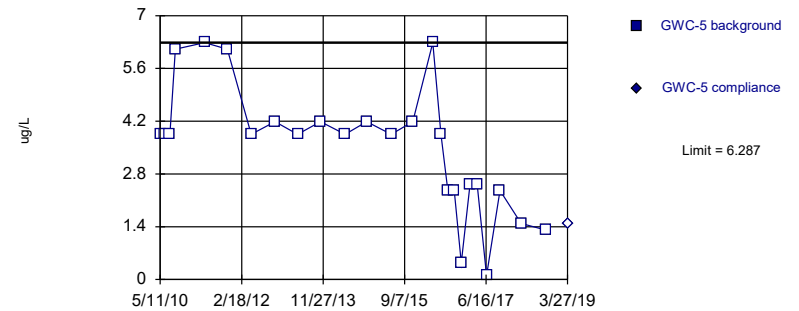


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 92% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

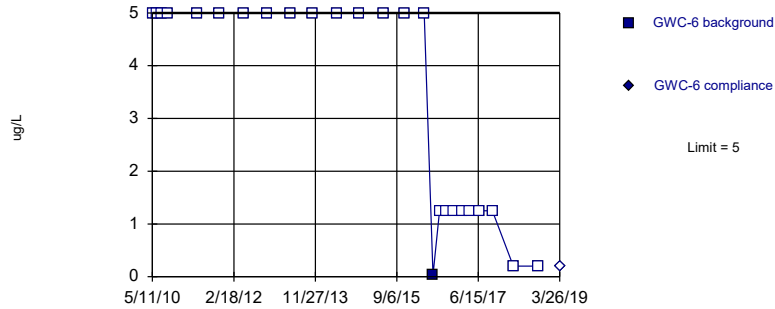


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

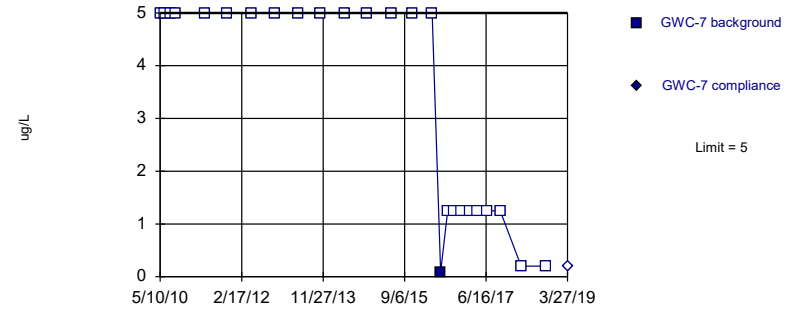


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

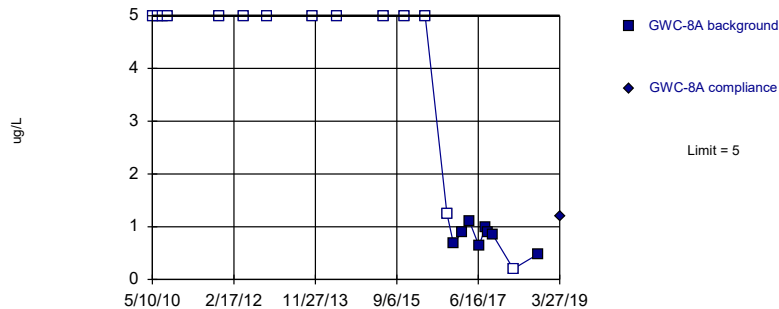


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

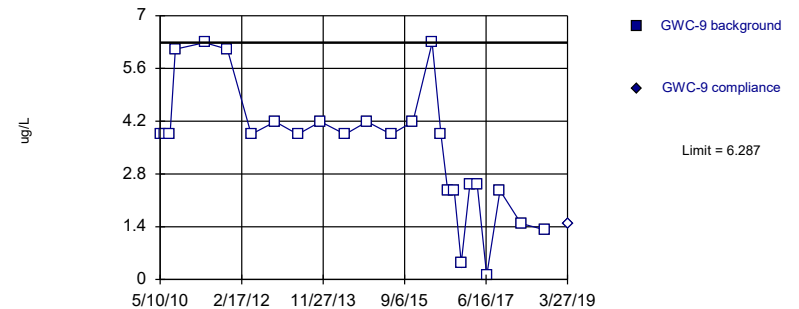


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 63.64% NDs. Report alpha = 0.04348. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

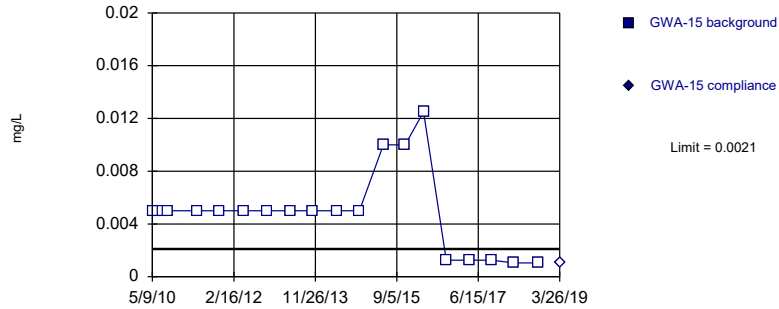


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Cobalt, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

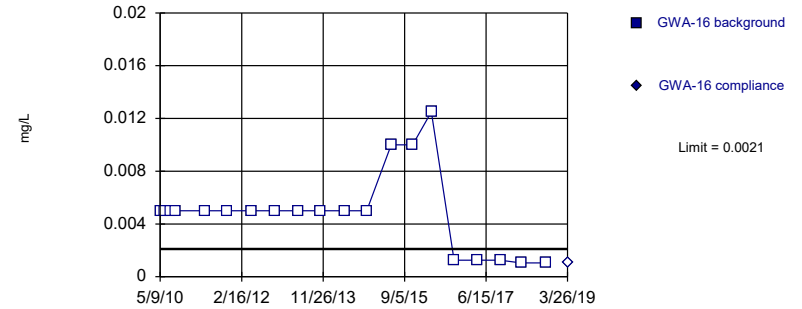


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

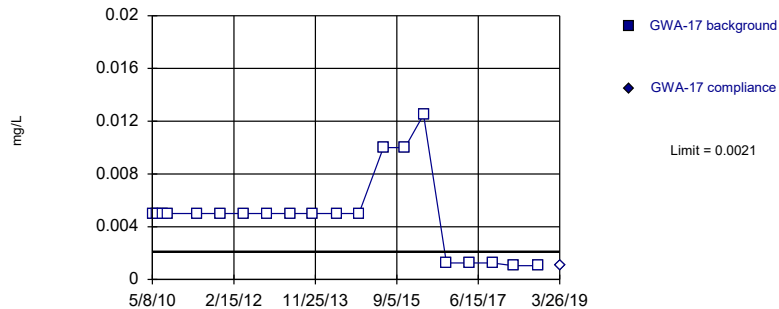


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

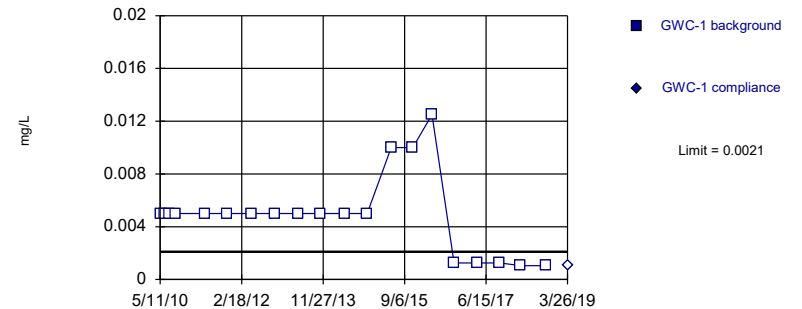


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

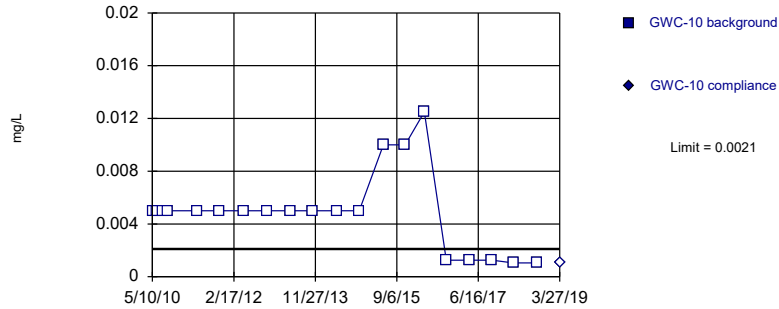


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

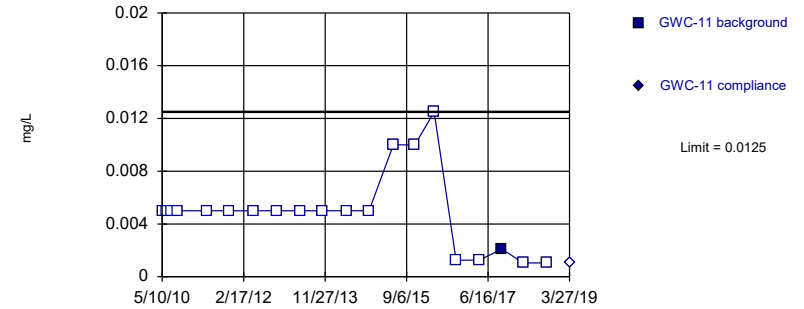


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

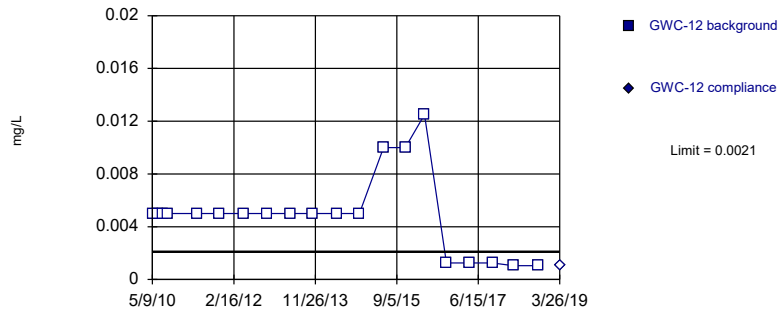


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

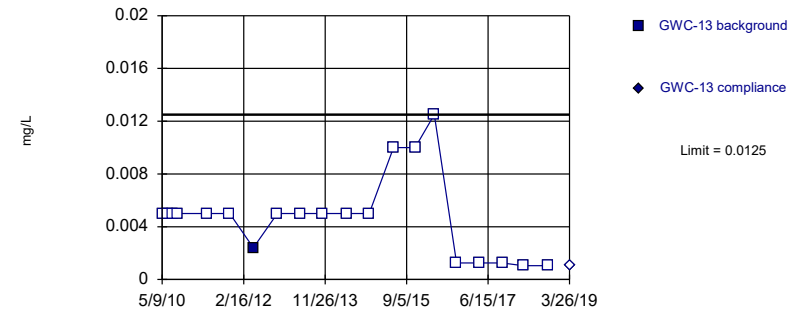


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

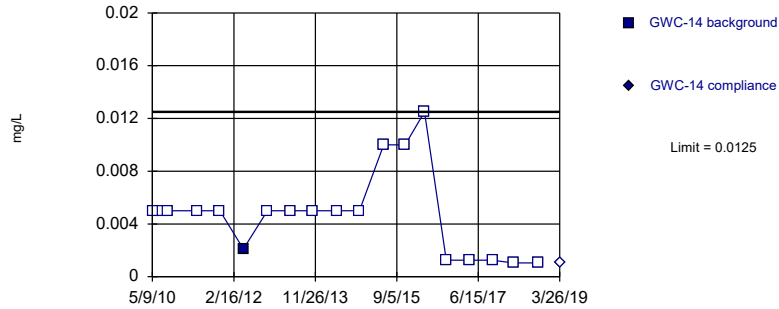


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

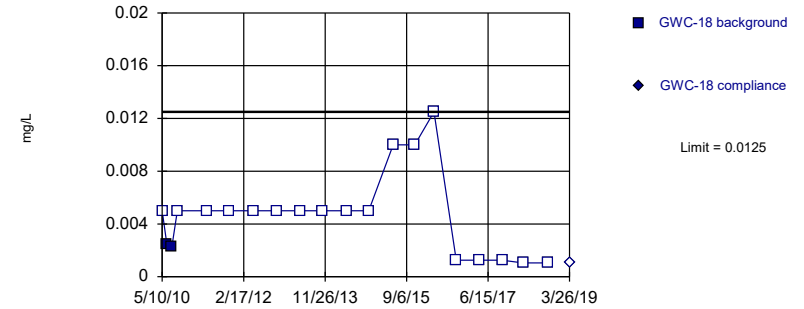


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

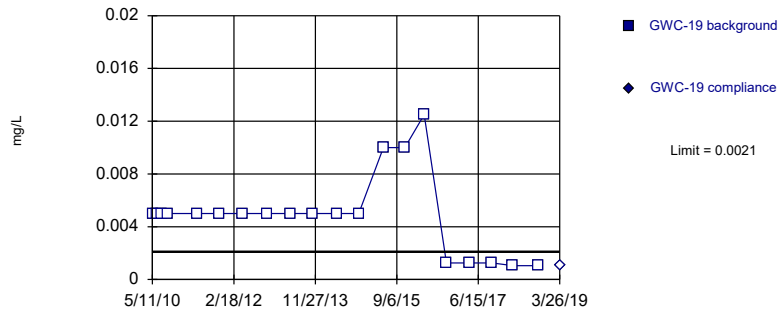


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

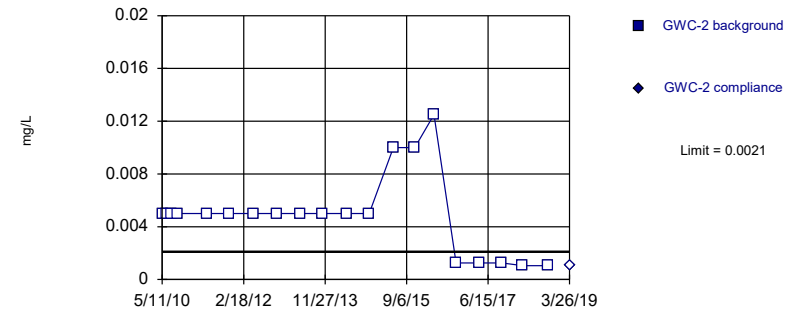


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

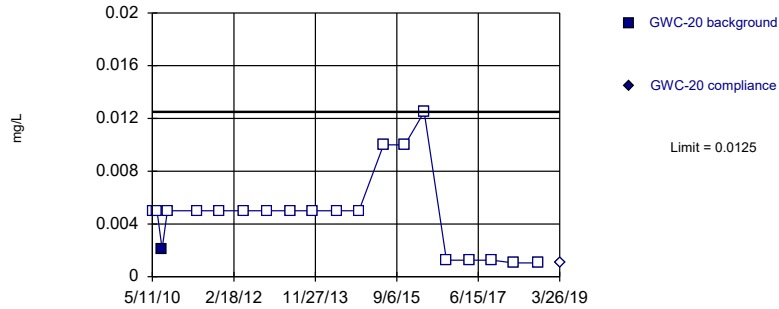


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

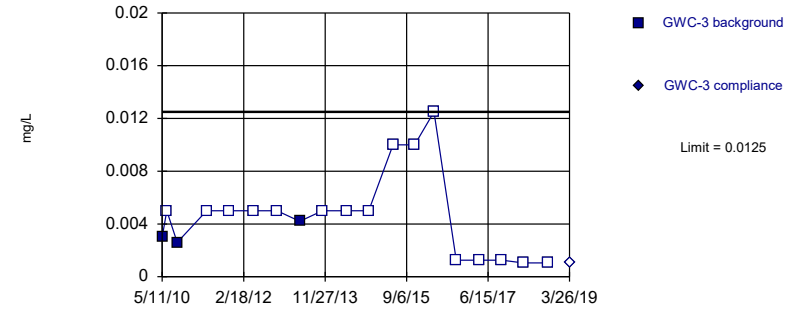


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

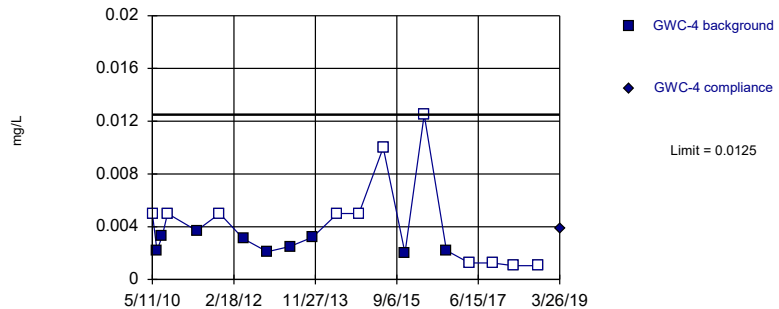


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

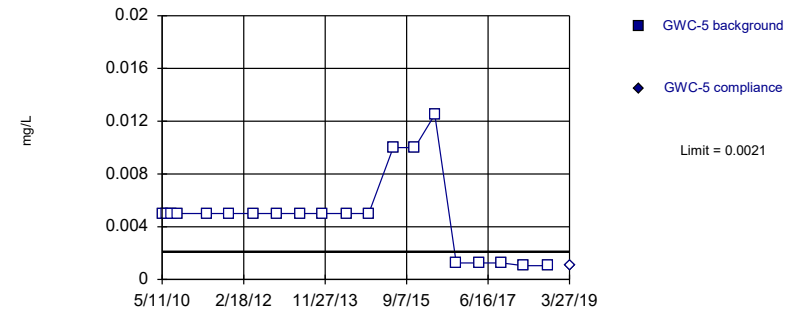


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 55% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

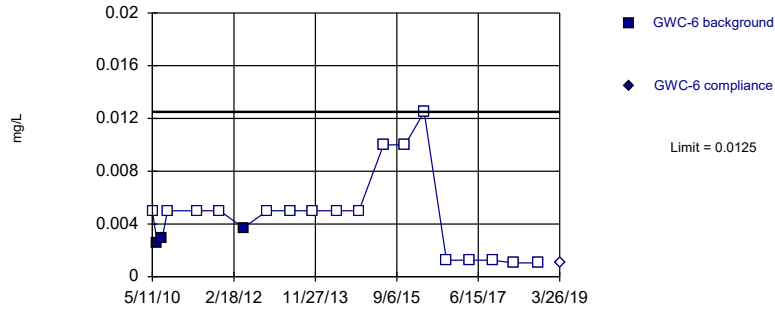
Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

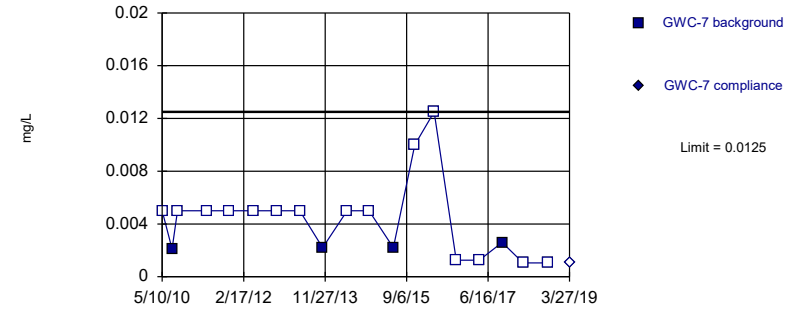
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

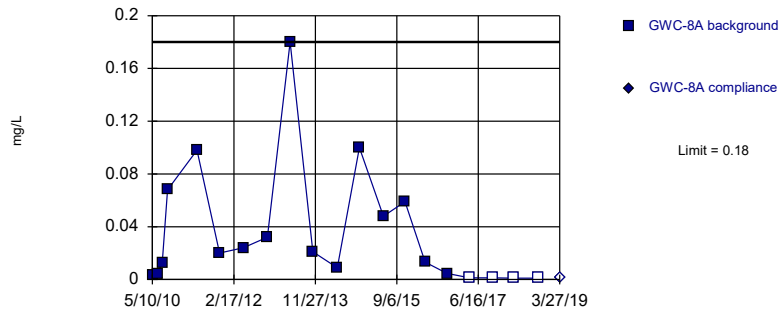
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

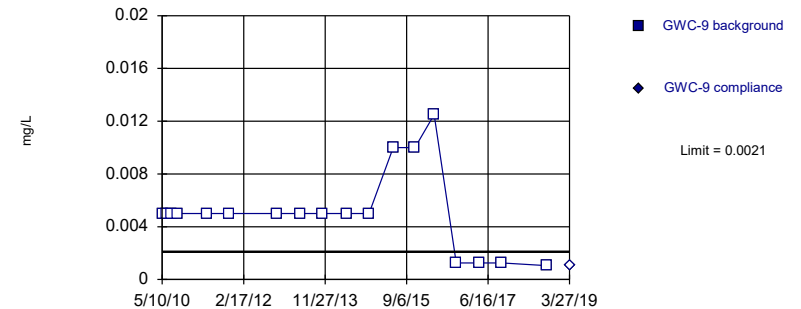
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 20 background values. 20% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit Prediction Limit
Intrawell Non-parametric

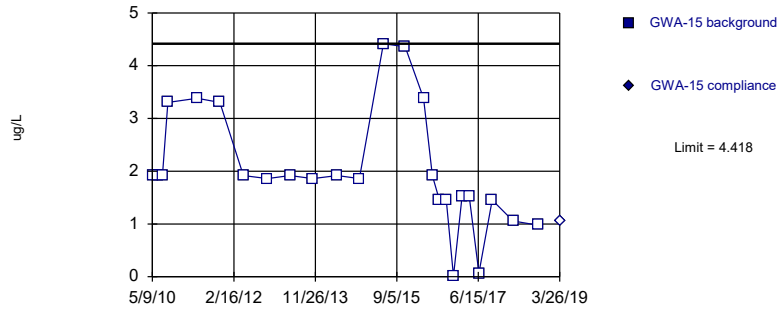


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Report alpha = 0.05263. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Copper Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

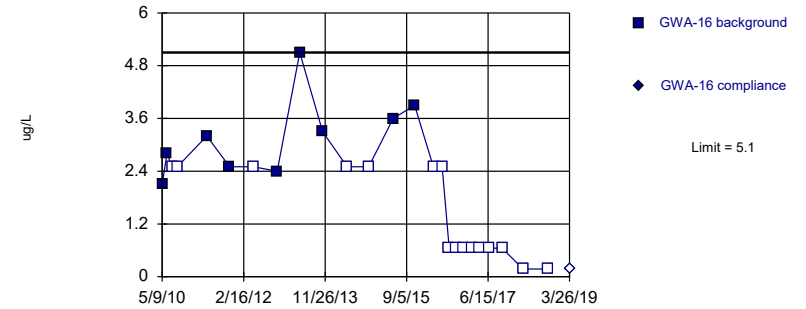


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

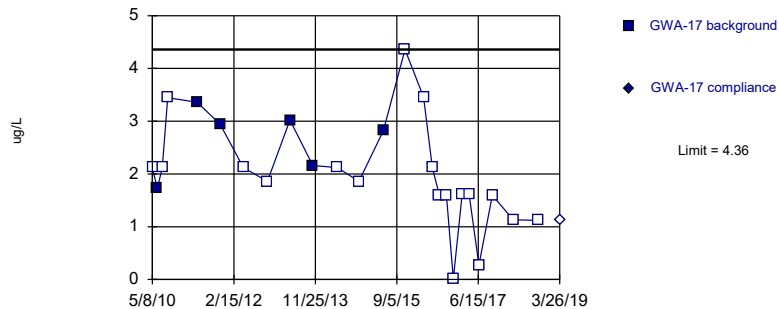


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

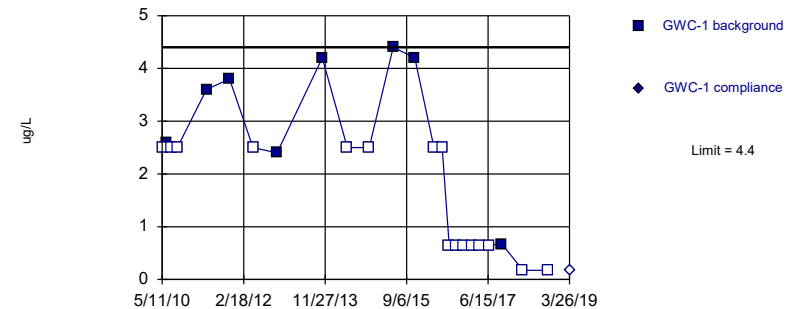


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 76% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

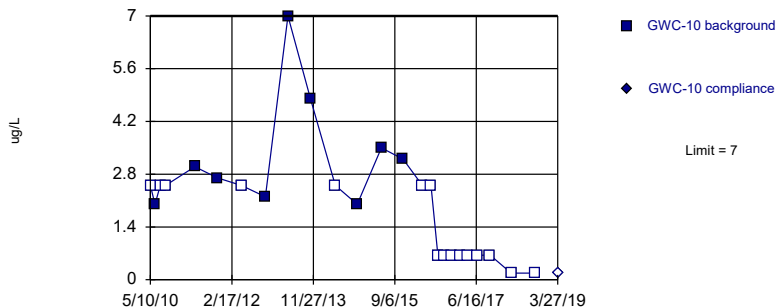


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 66.67% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

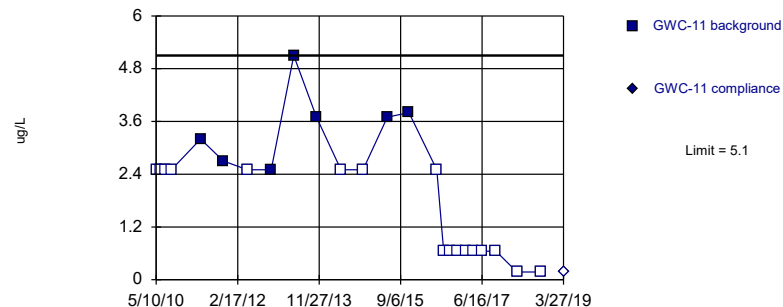


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

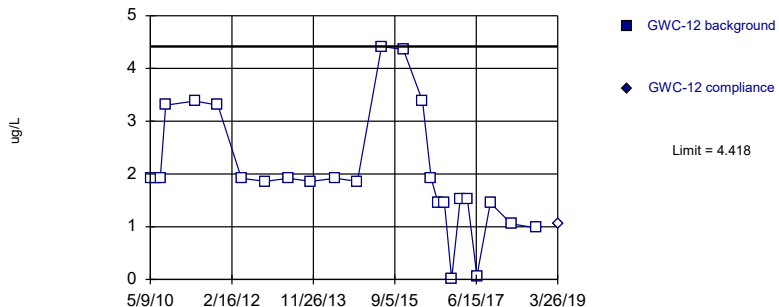


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

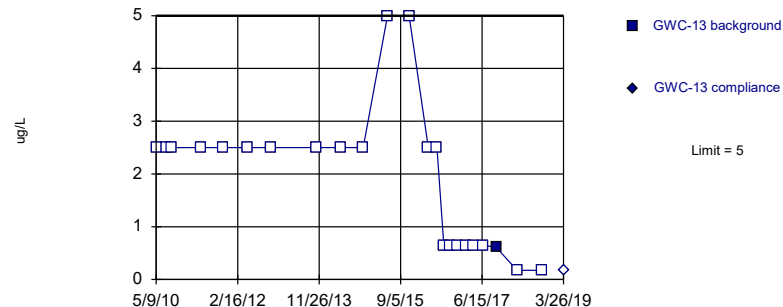


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

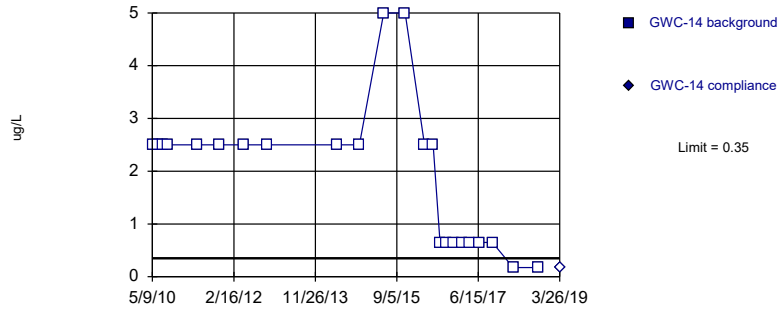


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

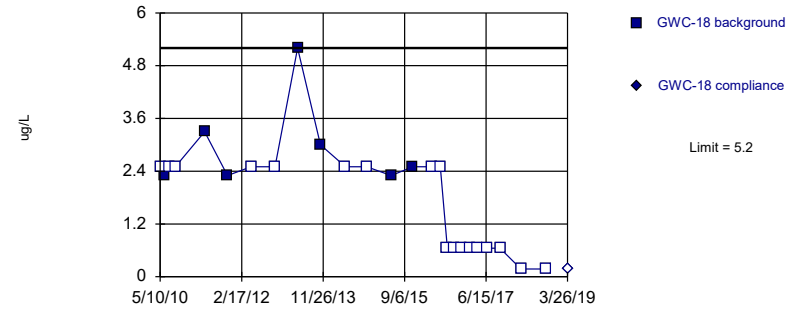


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

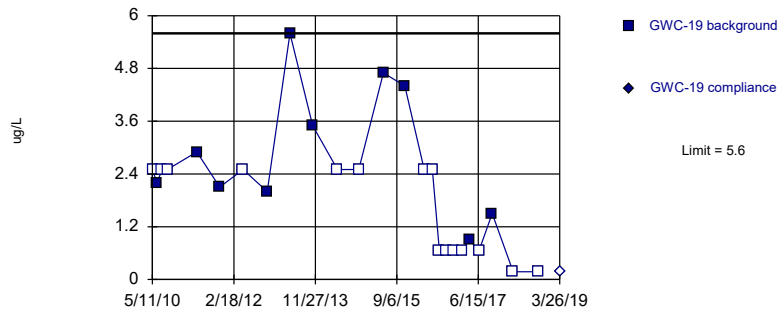


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

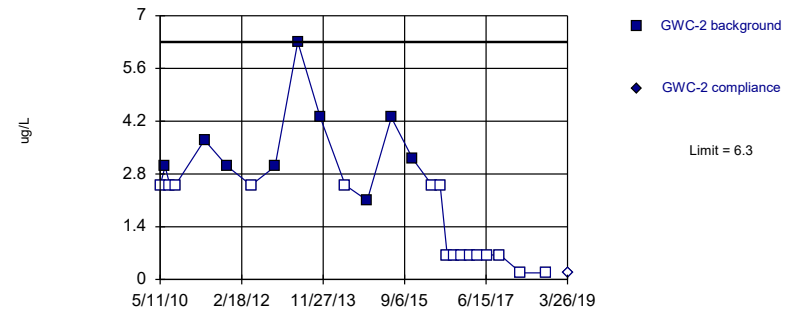


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 60% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

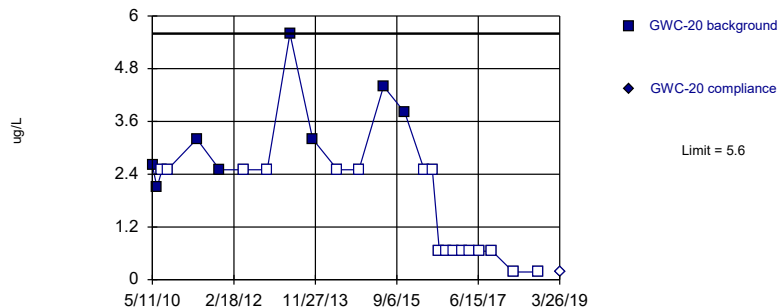


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

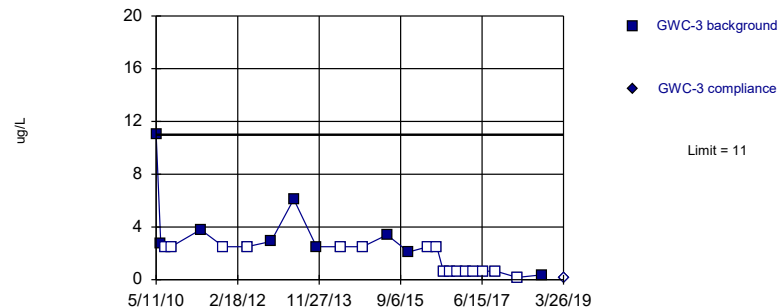


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

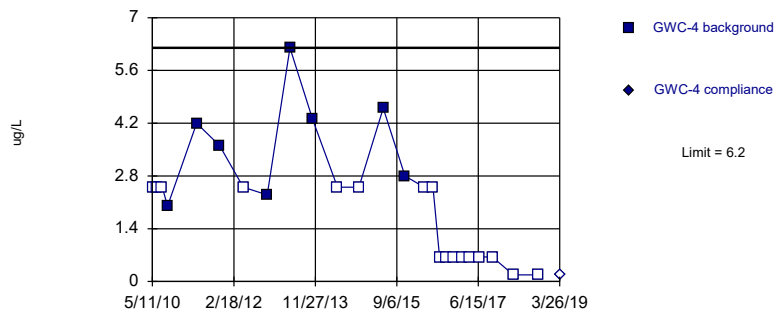


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

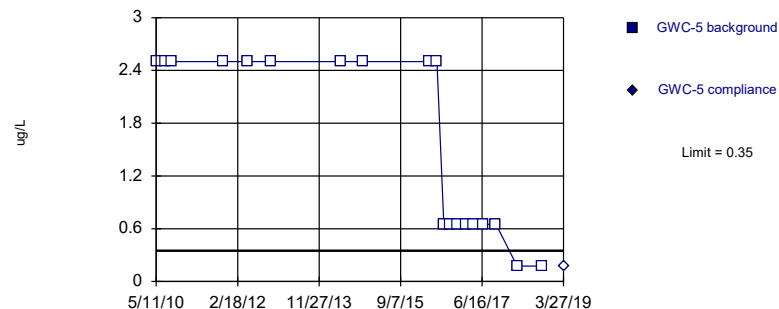


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 68% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

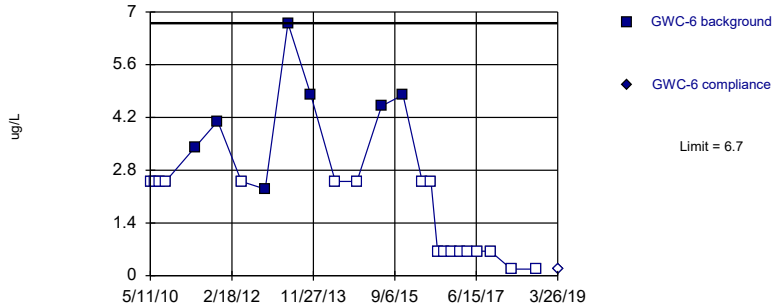


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:05 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

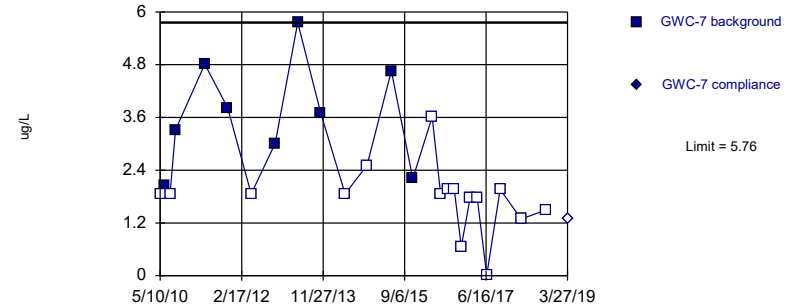


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 72% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

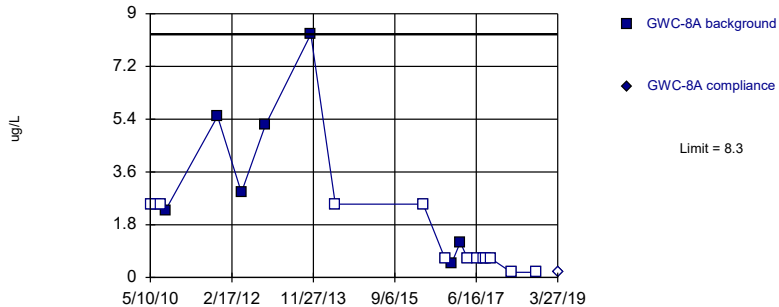


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

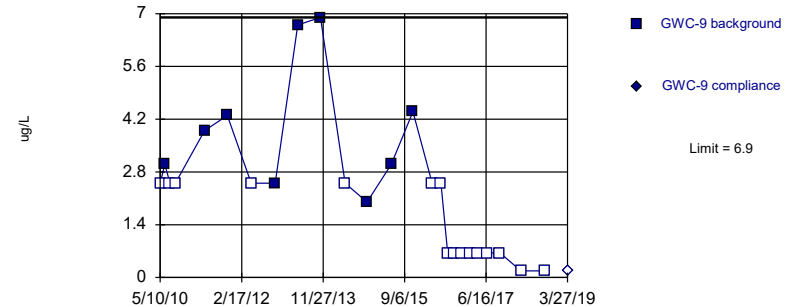


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 65% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

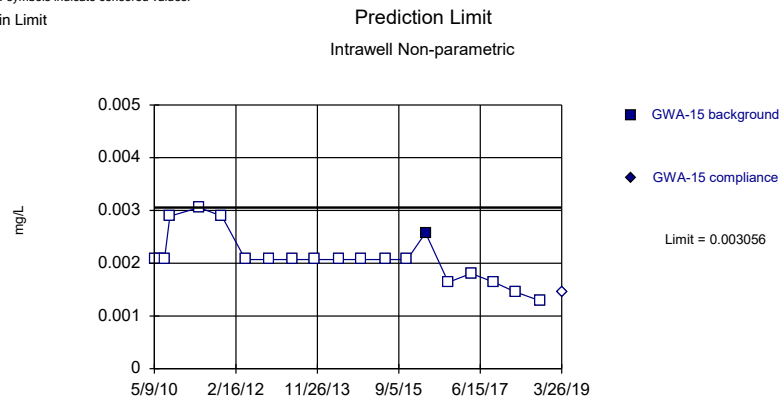
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 64% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Lead, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

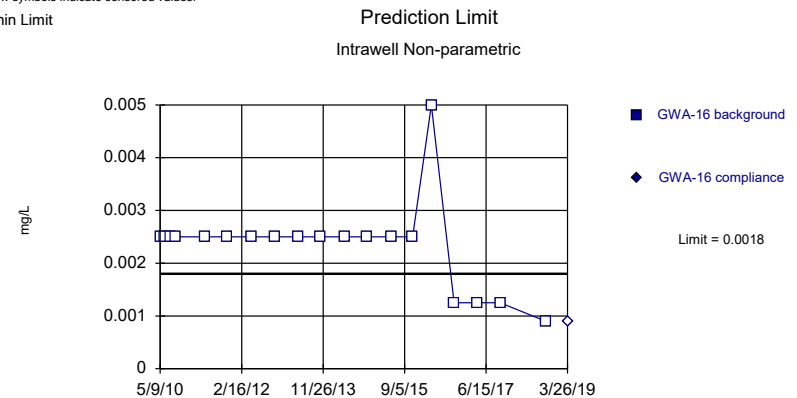
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

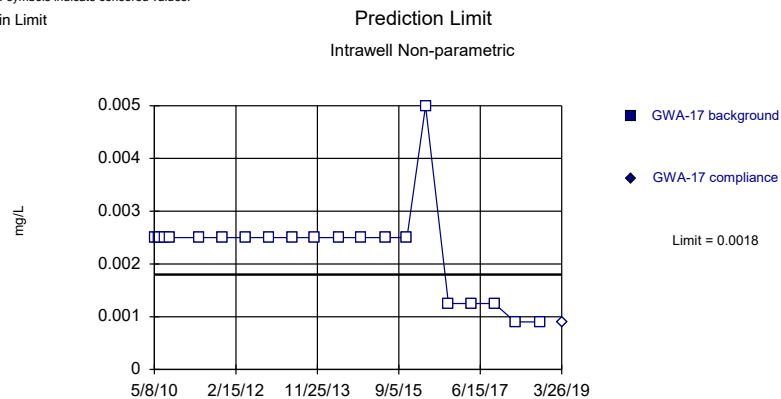
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

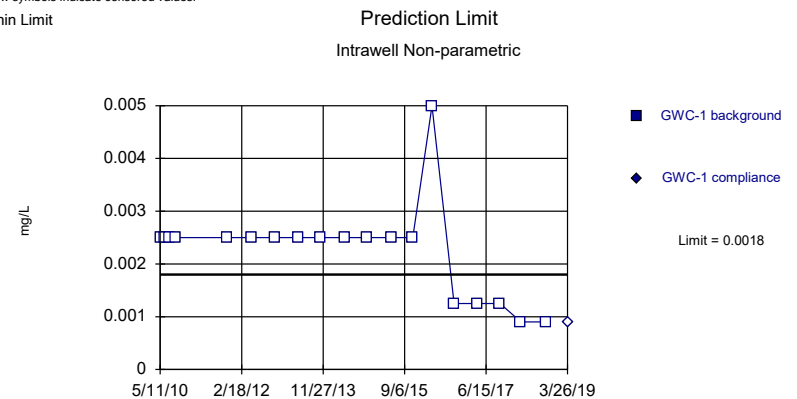
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

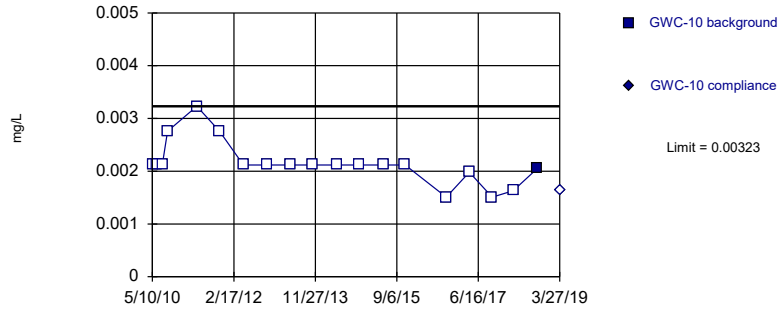


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

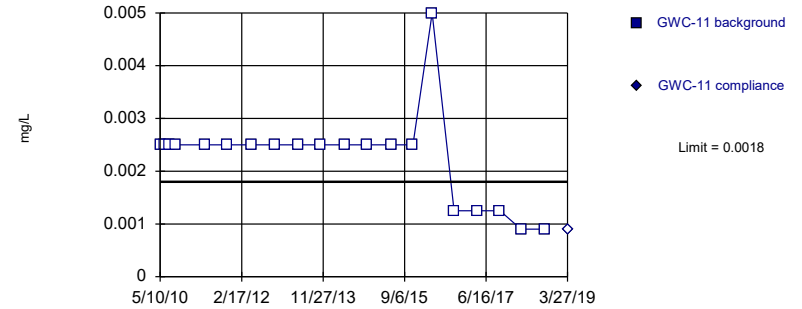


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

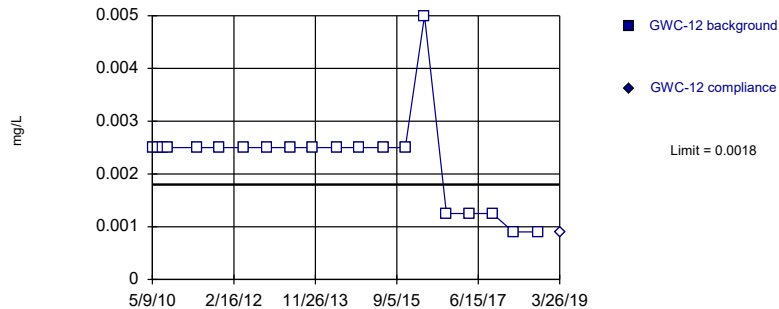


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

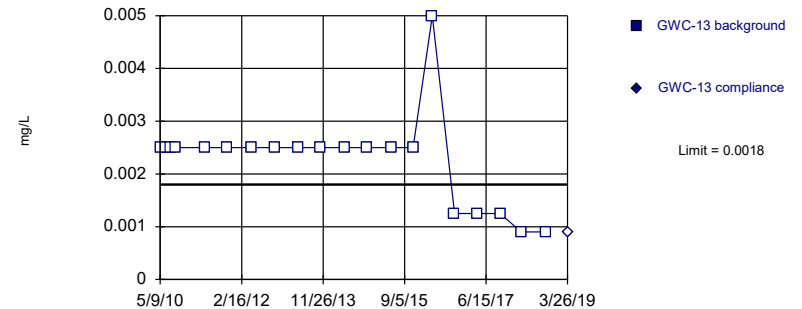


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric



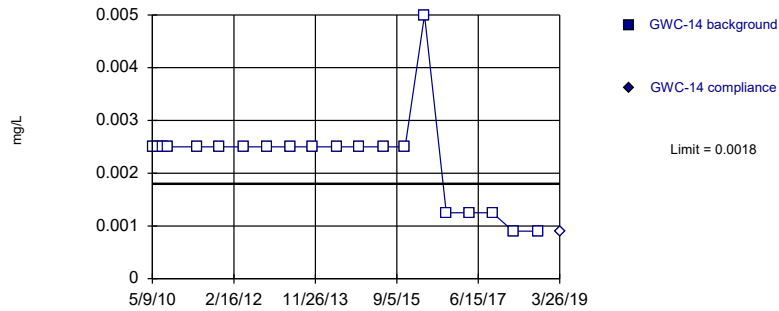
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



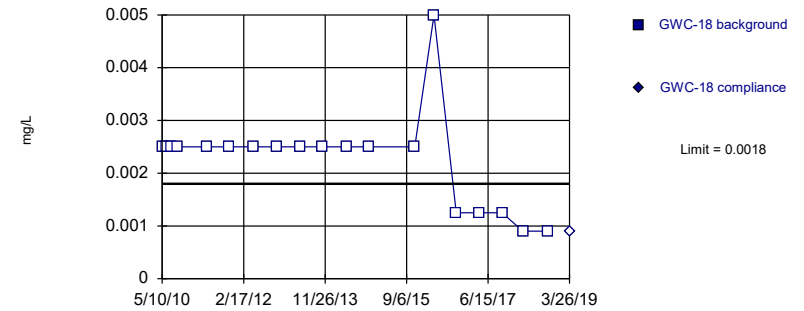
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



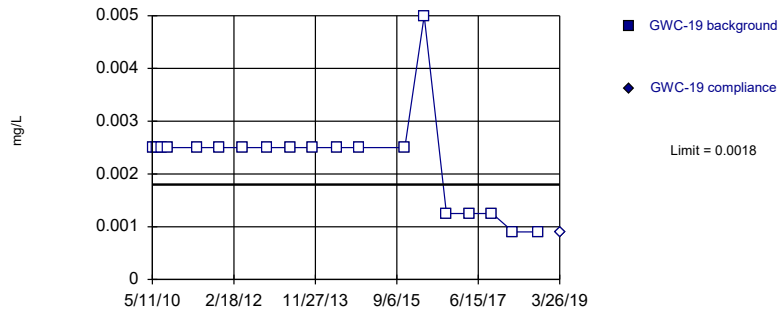
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



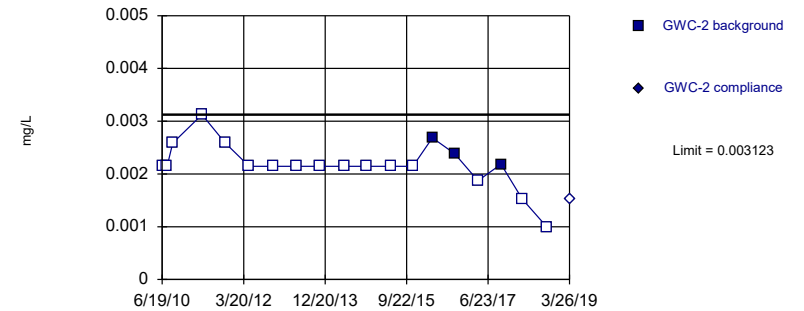
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

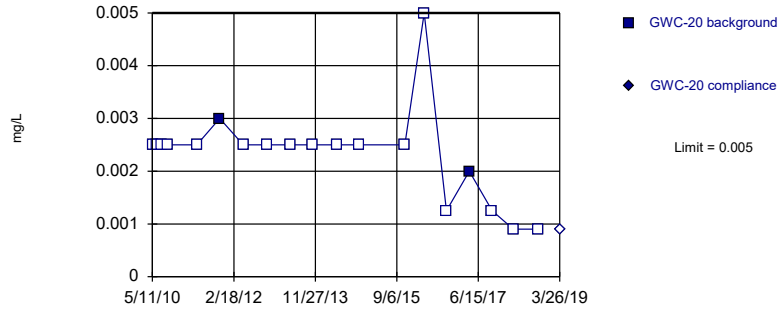


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

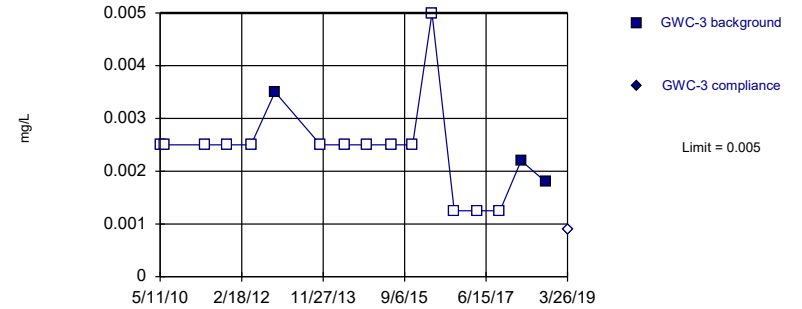


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

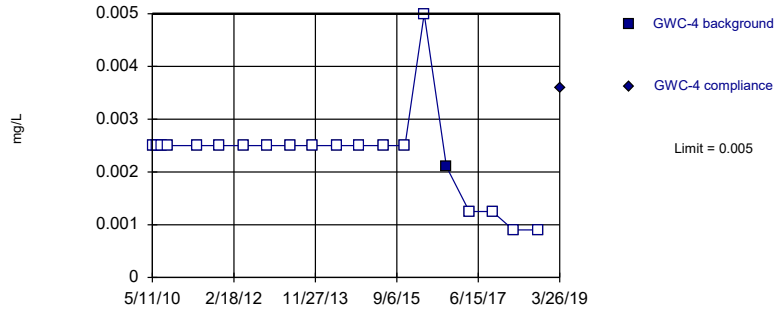


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

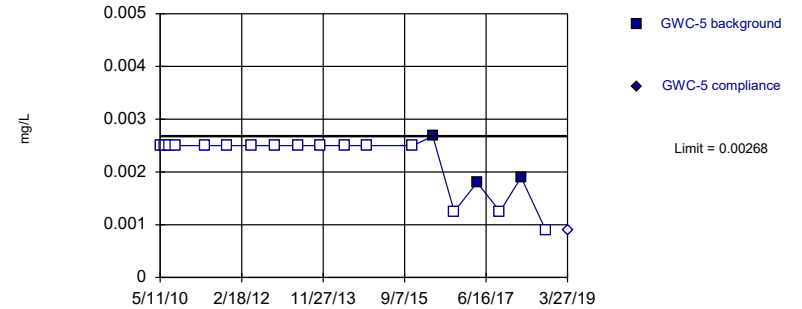


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

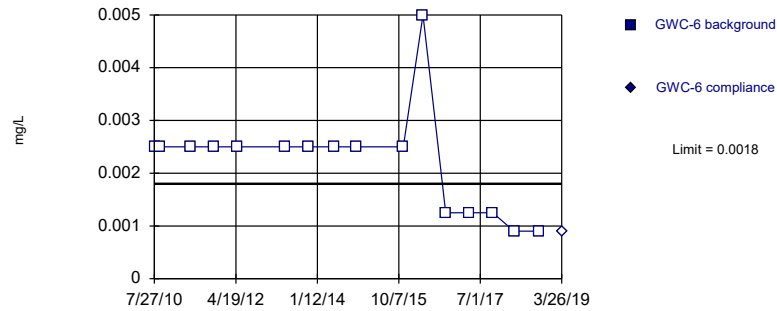


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 84.21% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

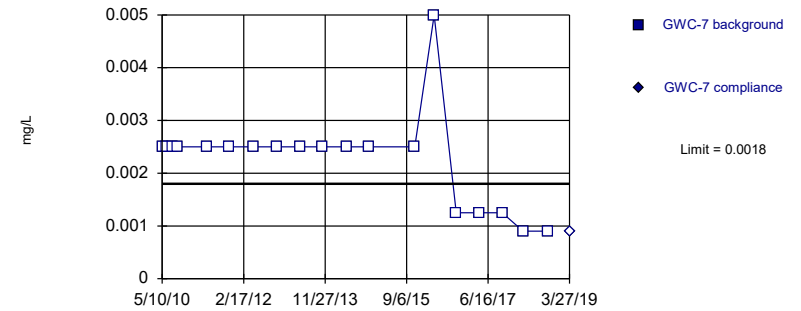


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 16) were censored; limit is most recent reporting limit. Report alpha = 0.05882. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

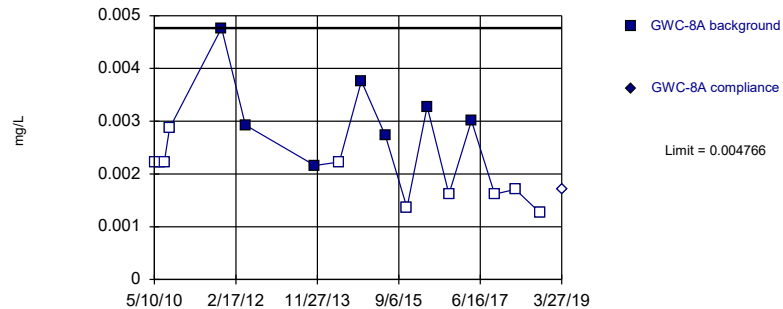


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

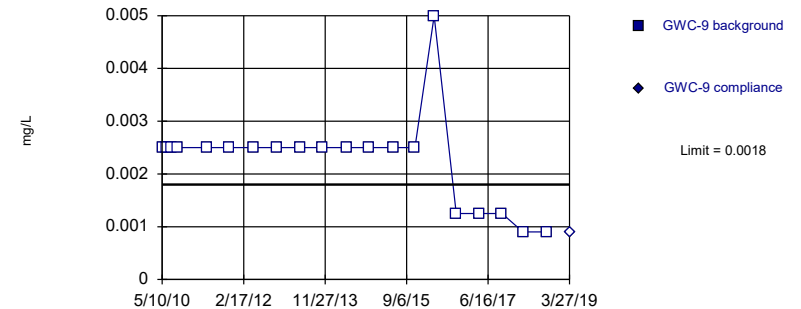


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Report alpha = 0.05556. Most recent point compared to limit. Data were deseasonalized.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

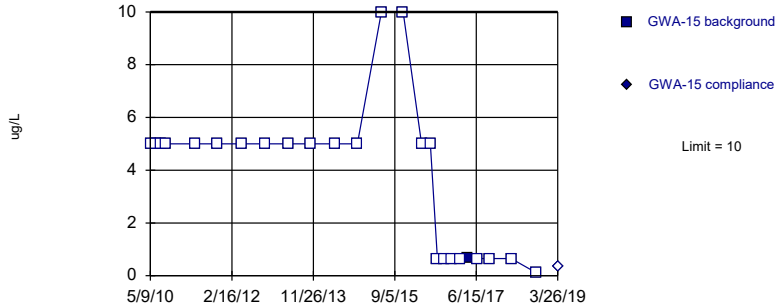


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nickel Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

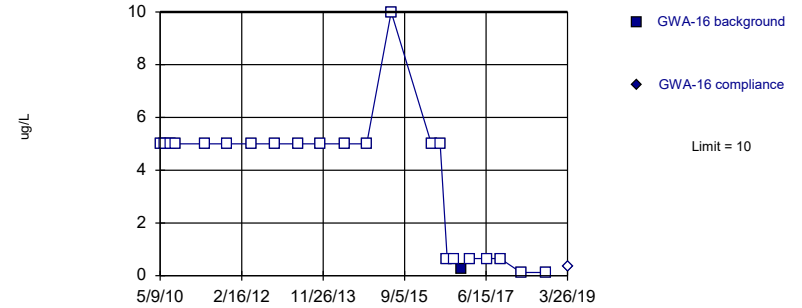


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

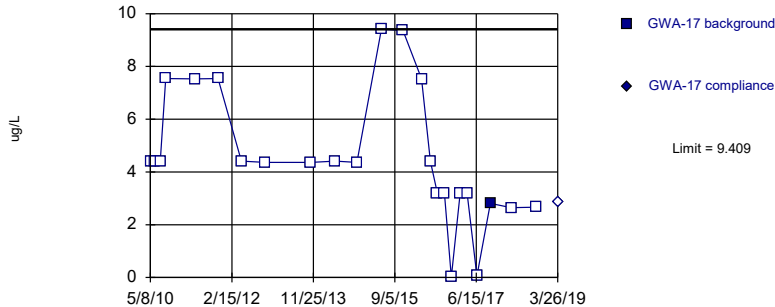


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

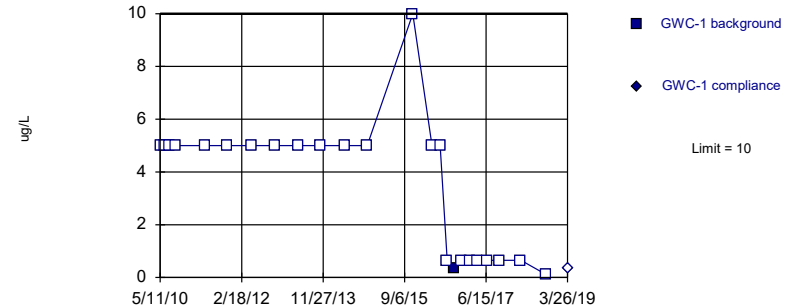


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

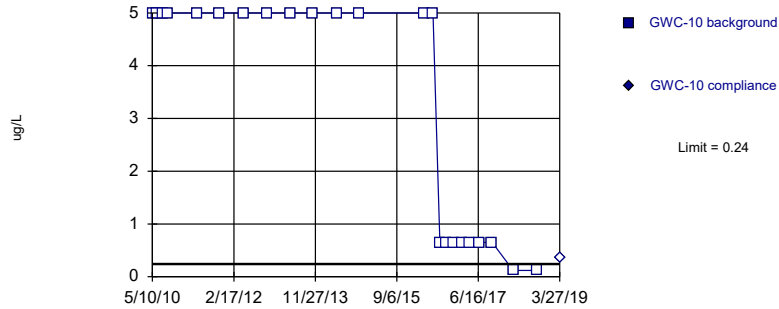


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

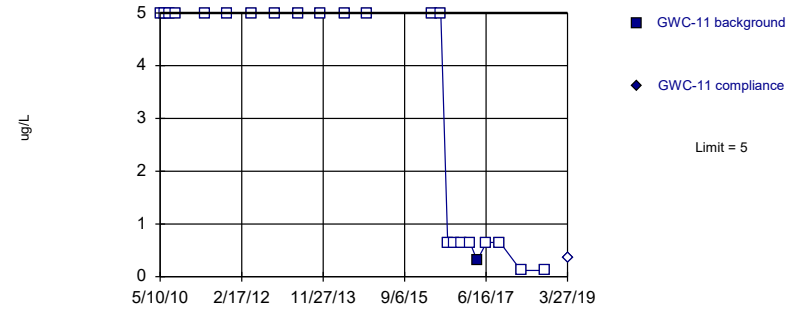


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

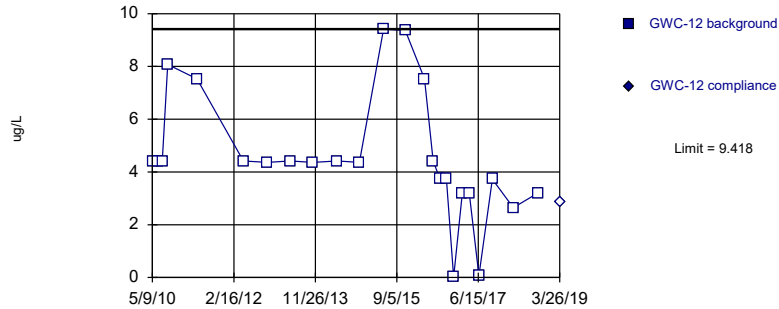


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

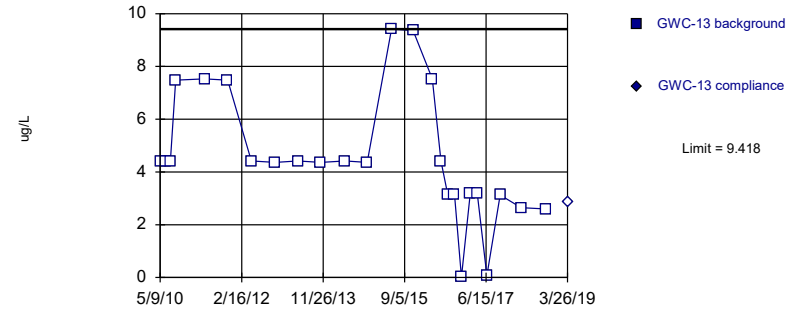


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

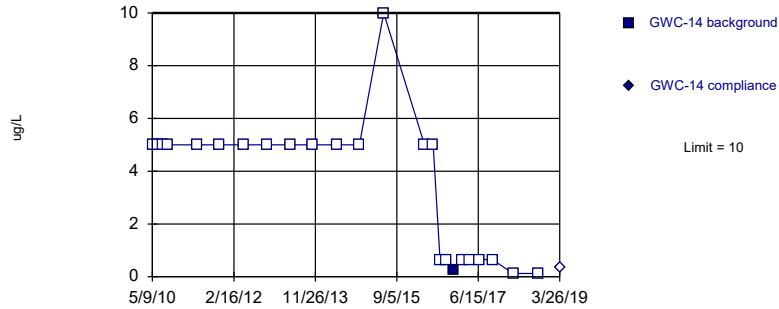


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

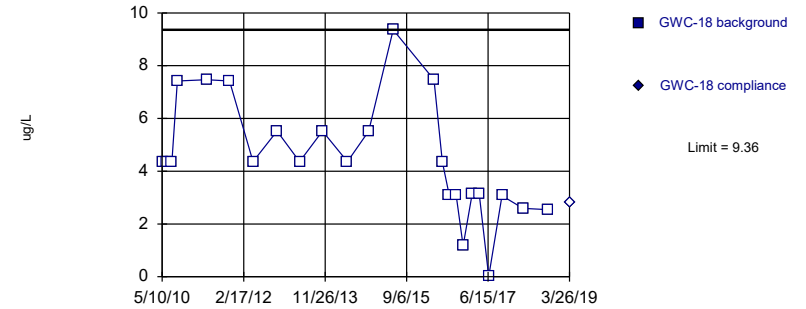


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

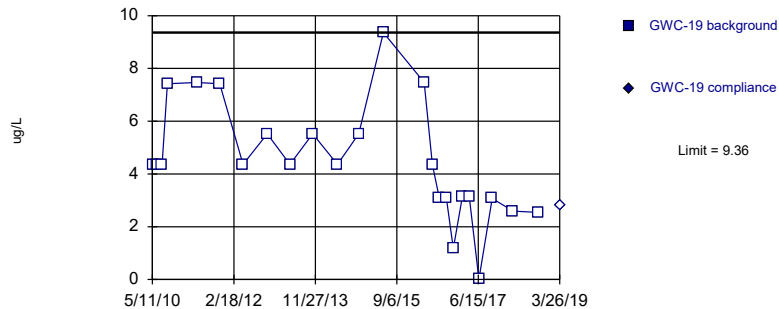


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

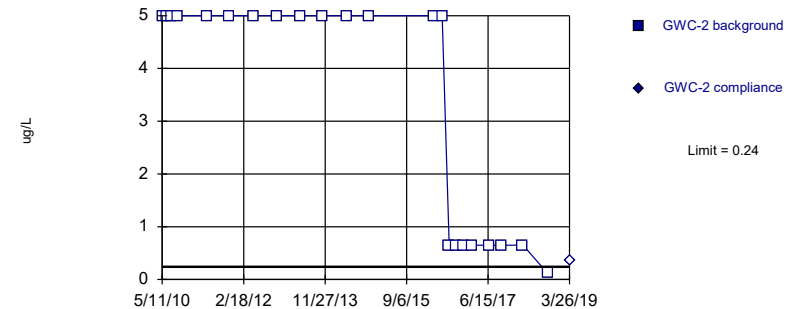


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 100% NDs. Report alpha = 0.04. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

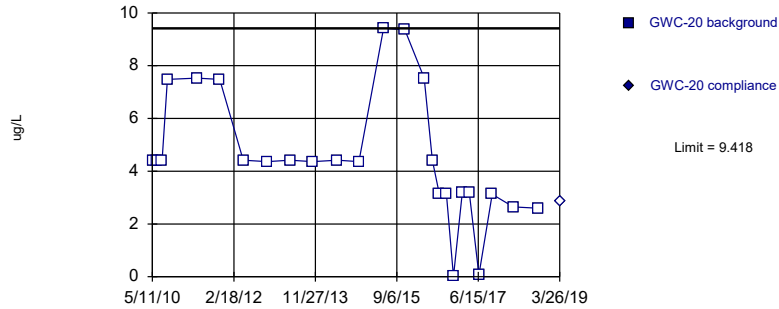


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Report alpha = 0.04348. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

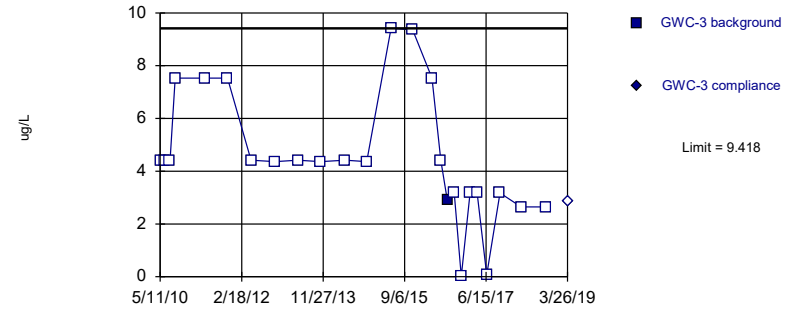


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

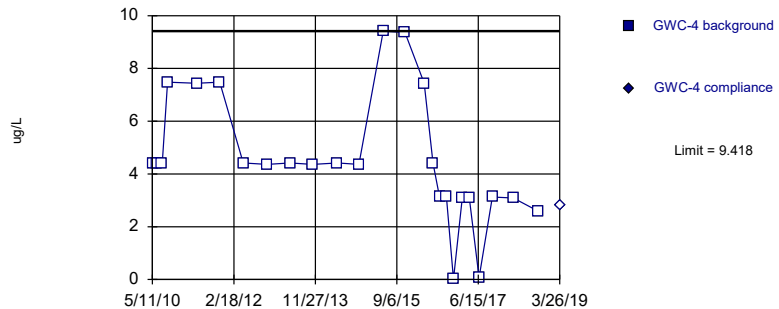


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

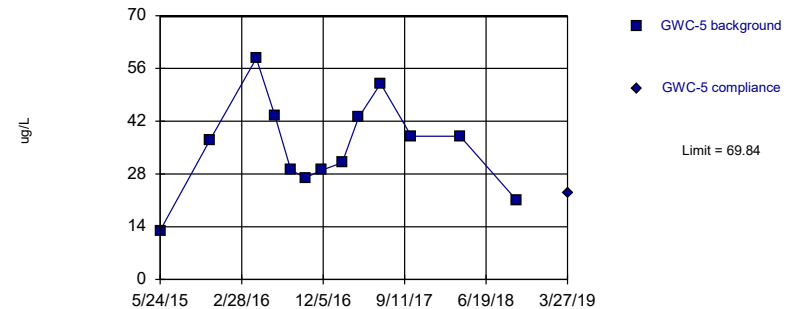


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 100% NDs. Report alpha = 0.03846. Most recent point compared to limit. Data were deseasonalized.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Parametric

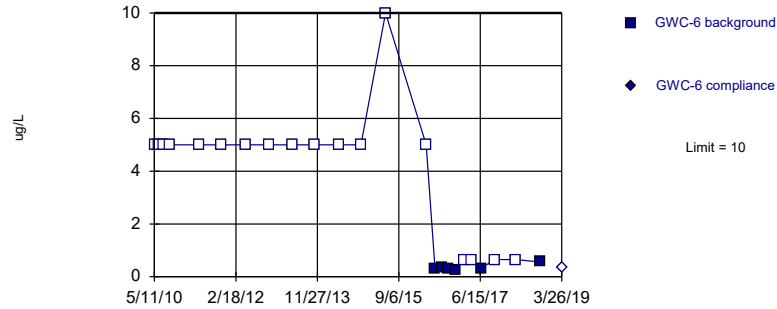


Background Data Summary: Mean=35.4, Std. Dev.=12.38, n=13. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9838, critical = 0.866. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

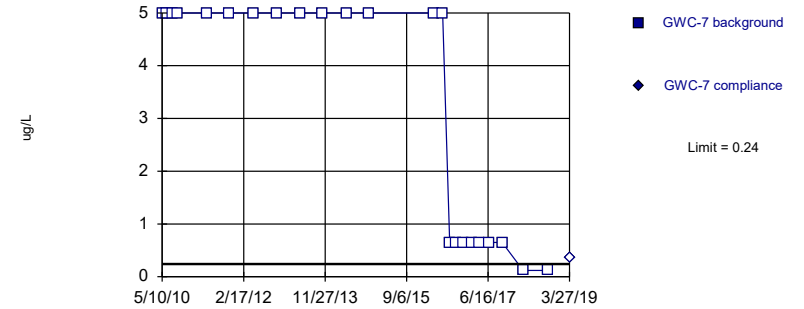


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

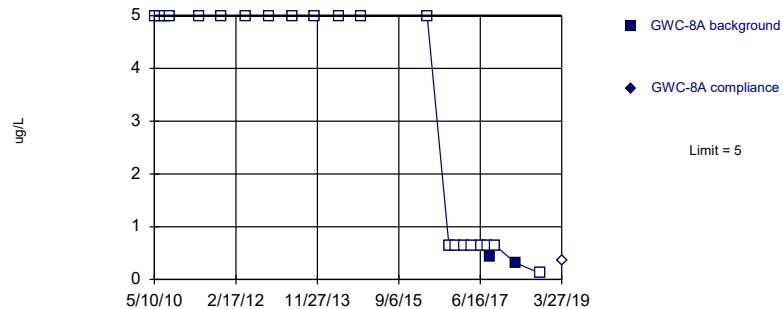


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

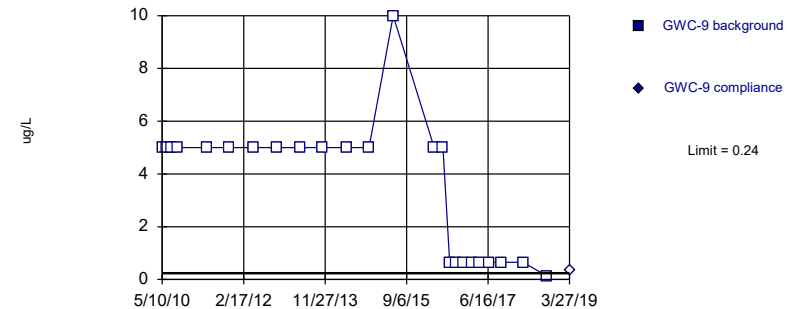


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Report alpha = 0.04167. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

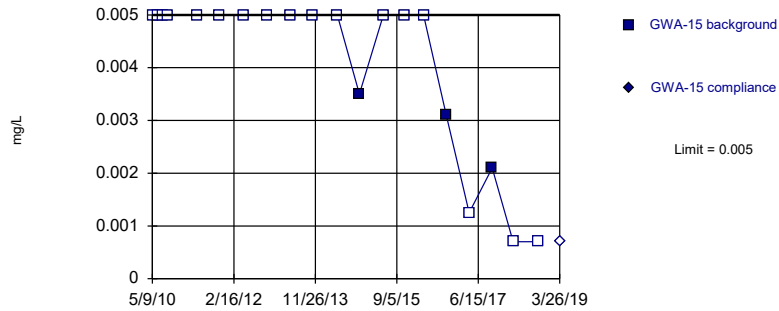


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Report alpha = 0.04. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Selenium, Total Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

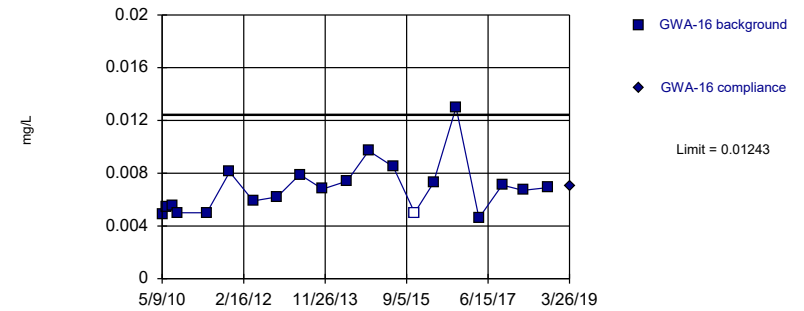


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

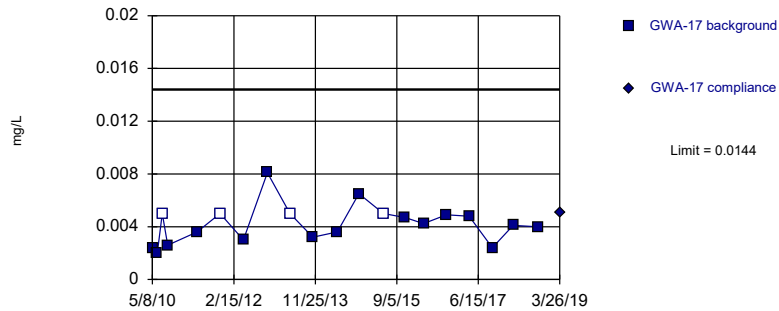


Background Data Summary (based on square root transformation): Mean=0.08198, Std. Dev.=0.01134, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9086, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

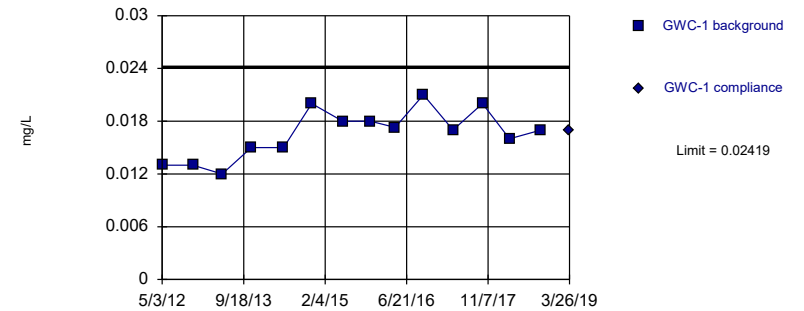


Background Data Summary (after Cohen's Adjustment): Mean=0.005526, Std. Dev.=0.00341, n=20, 20% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9311, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

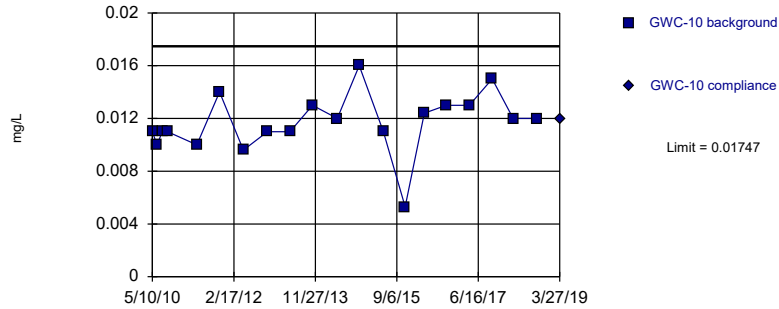


Background Data Summary: Mean=0.01659, Std. Dev.=0.00277, n=14. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9582, critical = 0.874. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

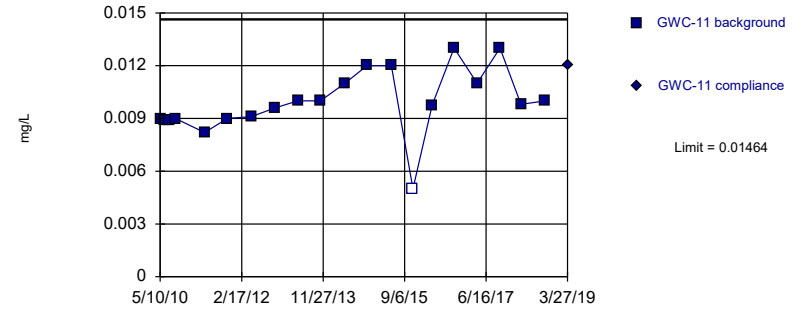


Background Data Summary: Mean=0.01167, Std. Dev.=0.002231, n=20. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9193, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Parametric

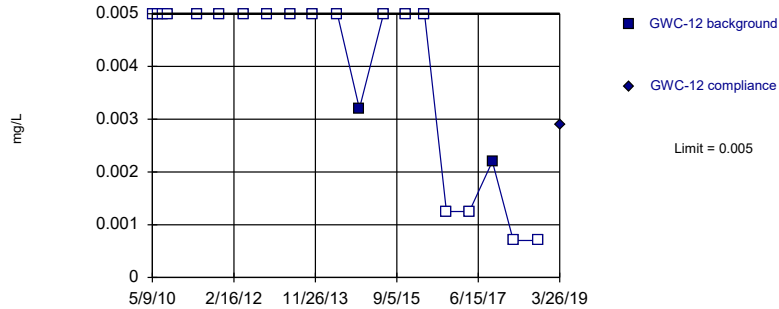


Background Data Summary: Mean=0.009913, Std. Dev.=0.001815, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9125, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

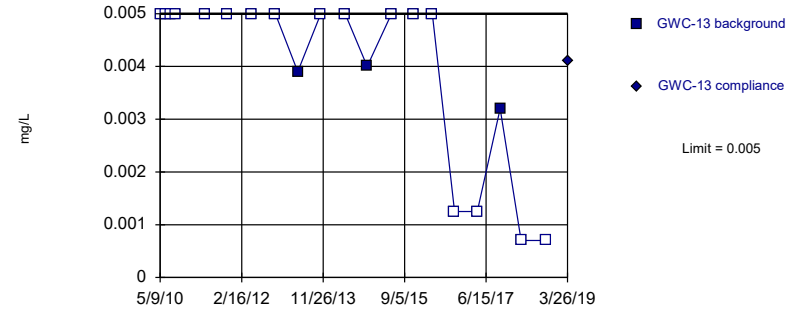


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:06 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

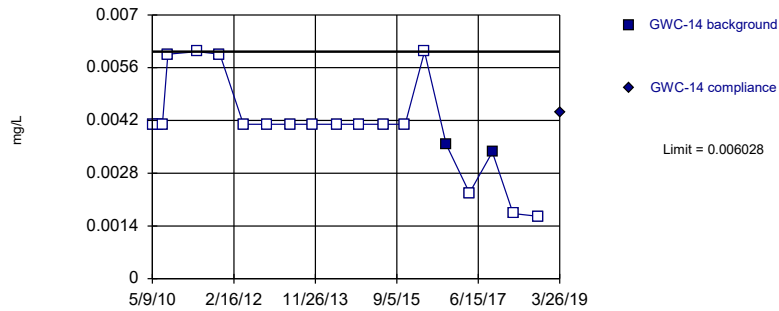


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 85% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

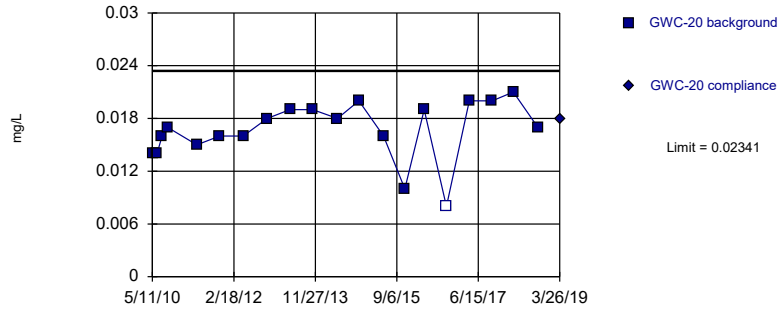
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Parametric



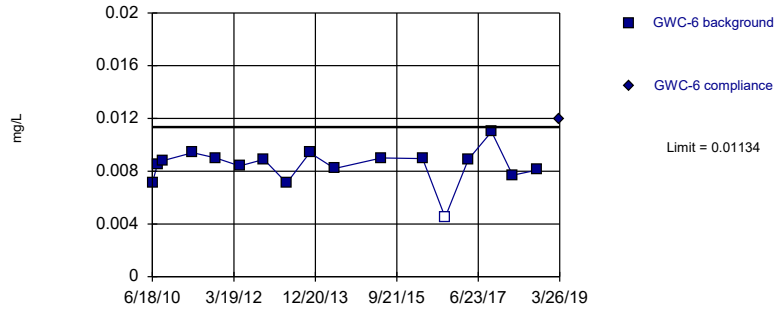
Background Data Summary (based on square transformation): Mean=0.0002878, Std. Dev.=0.0001, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9497, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF</

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Parametric



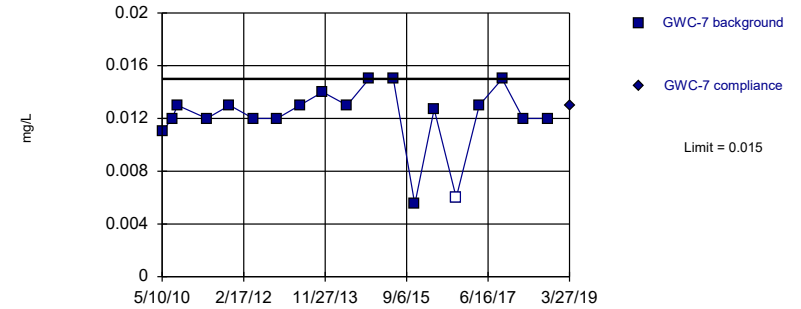
Background Data Summary (based on square transformation): Mean=0.00007246, Std. Dev.=0.00002112, n=17, 5.882% NDs. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9219, critical = 0.892. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



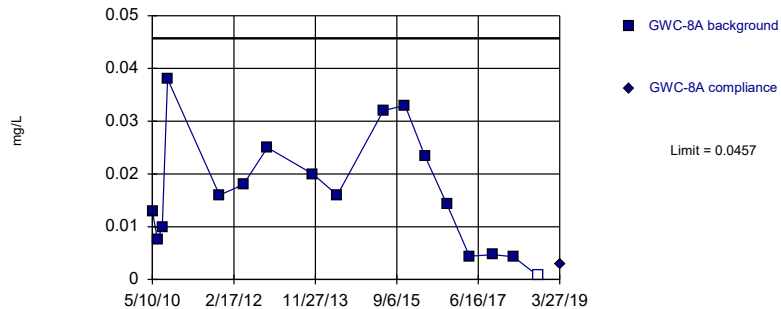
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values. 5.263% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



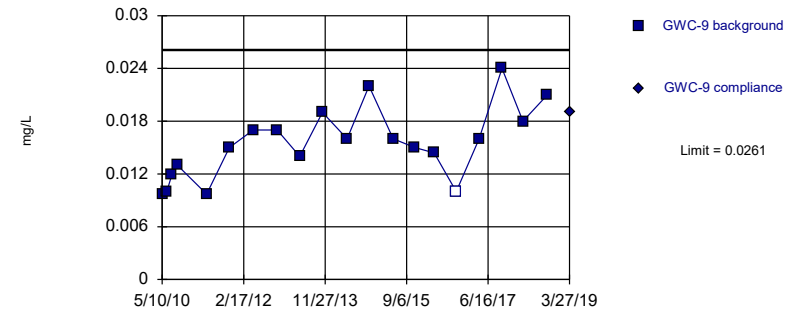
Background Data Summary: Mean=0.01648, Std. Dev.=0.01099, n=17, 5.882% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9527, critical = 0.892. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric

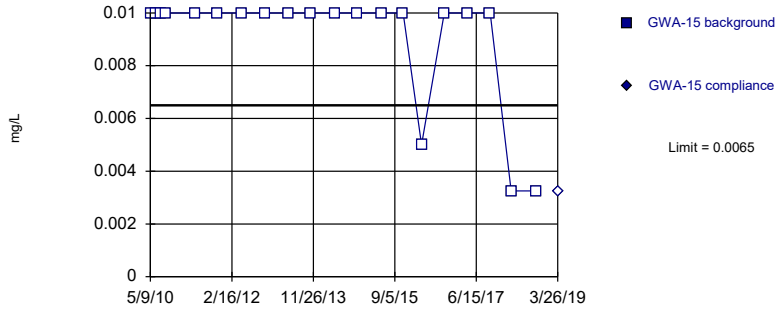


Background Data Summary: Mean=0.01544, Std. Dev.=0.004095, n=20, 5% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.954, critical = 0.905. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Vanadium Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

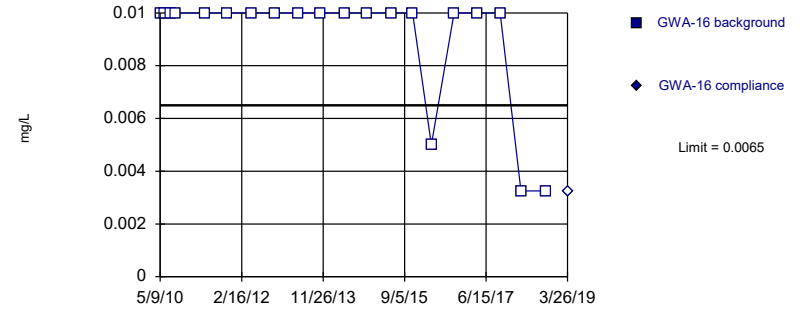


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

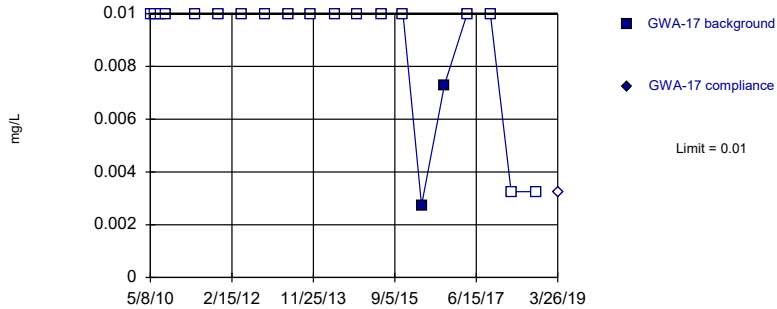


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric

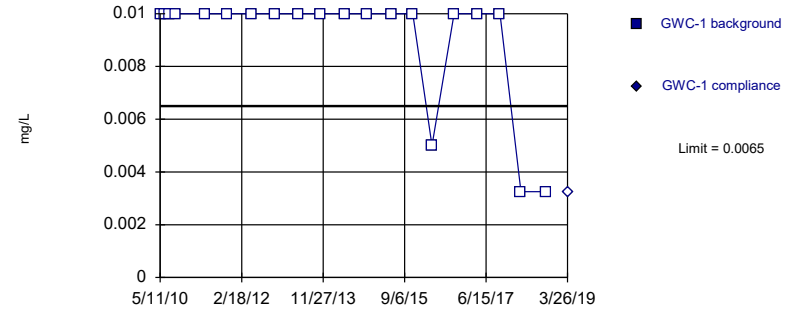


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
 Intrawell Non-parametric



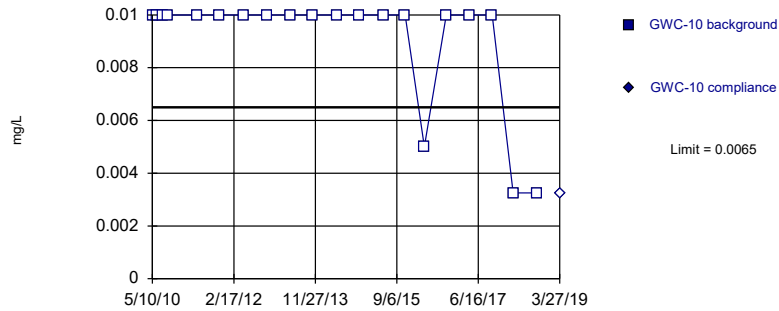
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



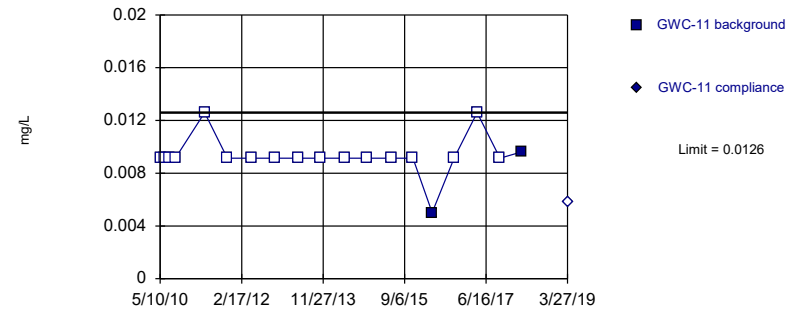
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



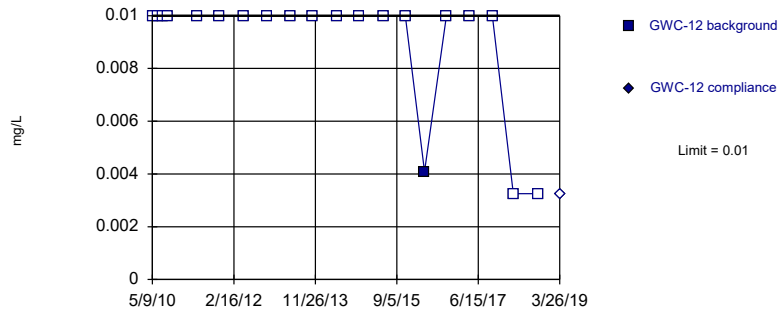
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Report alpha = 0.05. Most recent point compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



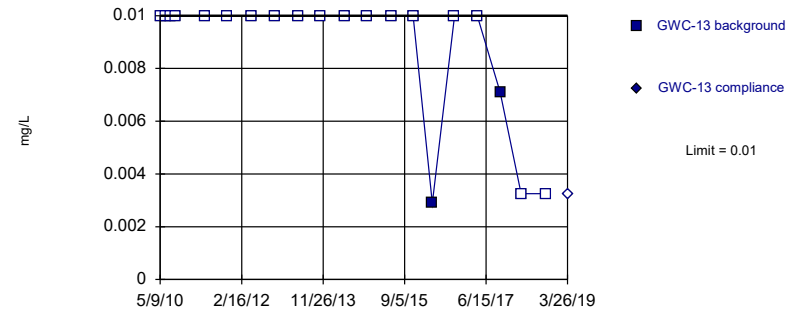
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



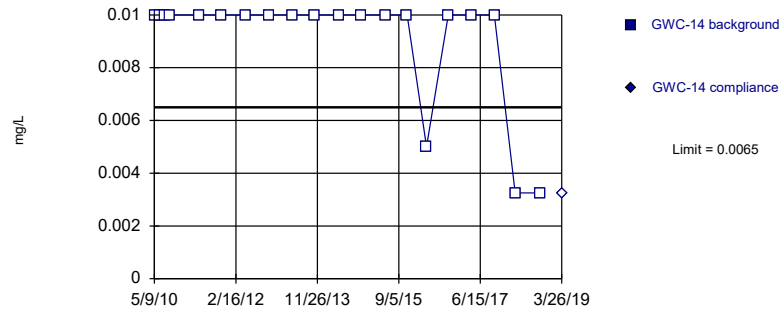
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 90% NDs. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



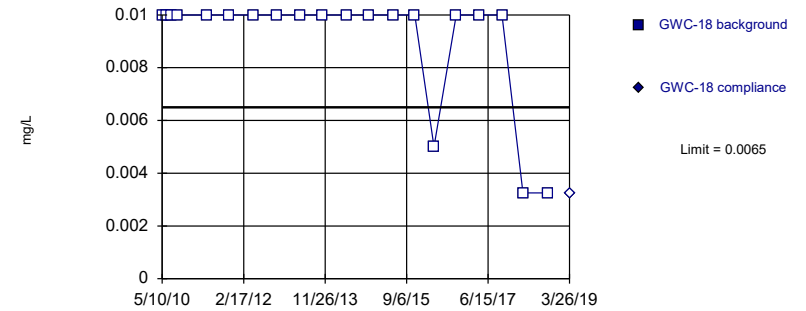
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



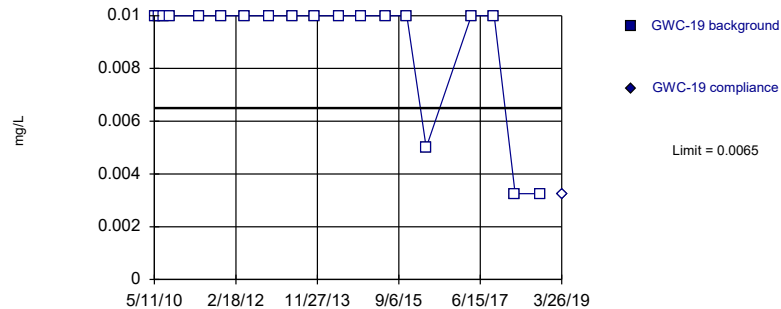
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



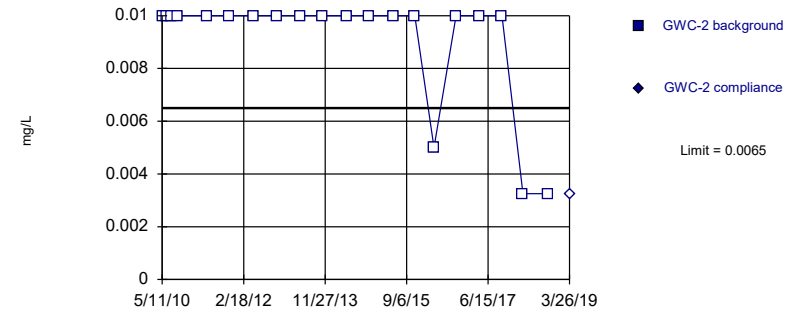
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



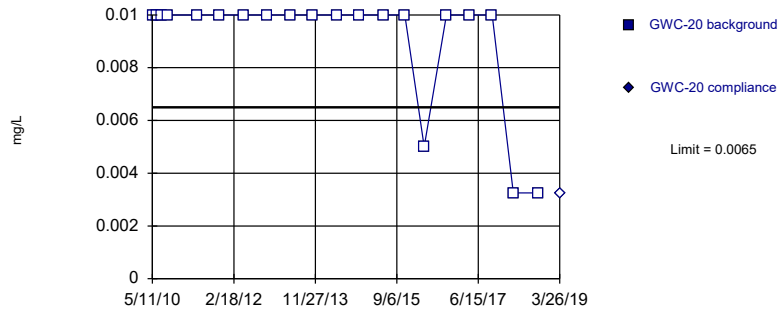
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



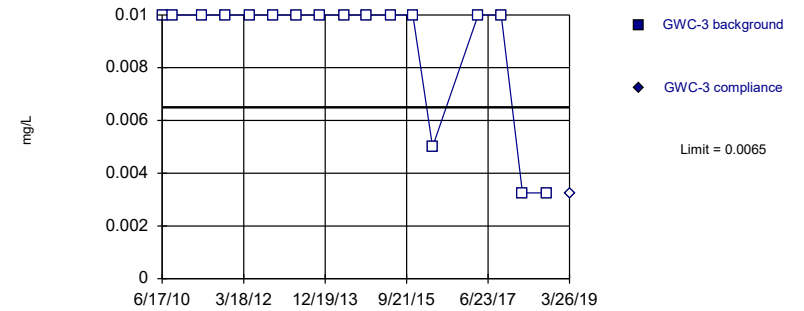
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



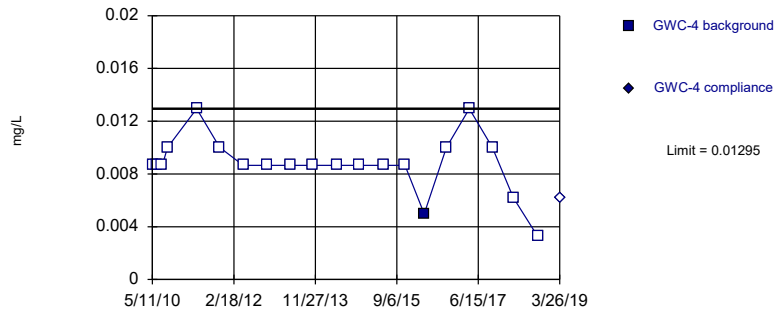
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



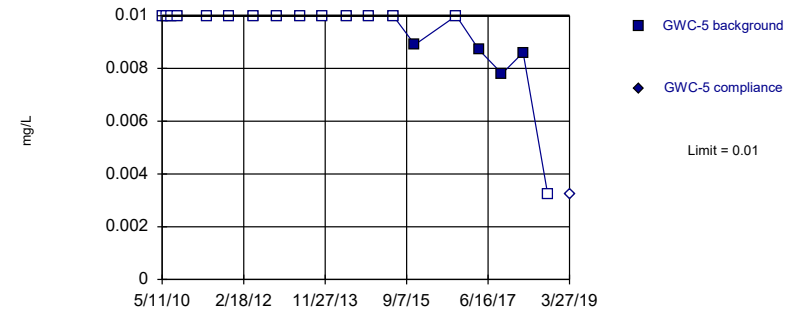
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Report alpha = 0.04762. Most recent point compared to limit. Data were deseasonalized.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sanitas™ v.9.6.18 For the statistical analyses of ground water by Golder Associates only, EPA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

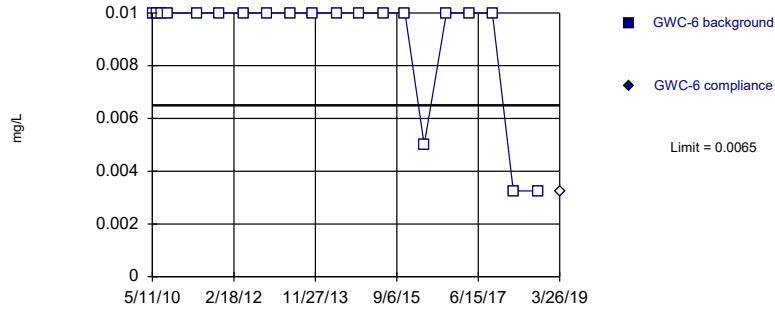


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 78.95% NDs. Report alpha = 0.05. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

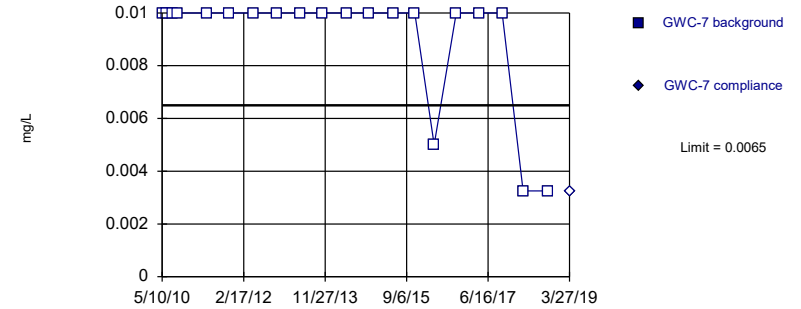


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

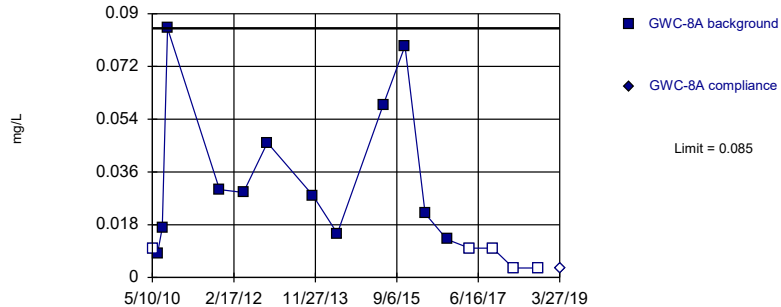


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

Prediction Limit
Intrawell Non-parametric

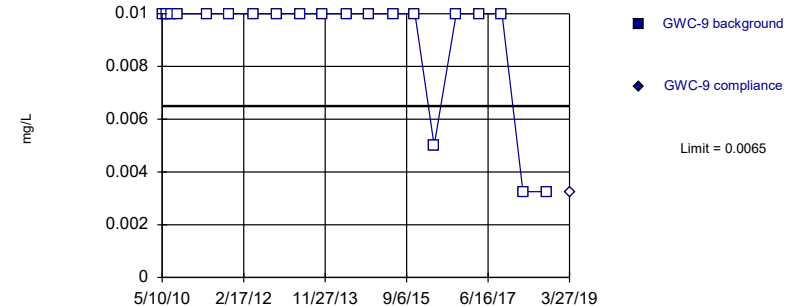


Non-parametric test used in lieu of parametric prediction limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 17 background values. 29.41% NDs. Report alpha = 0.05556. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Within Limit

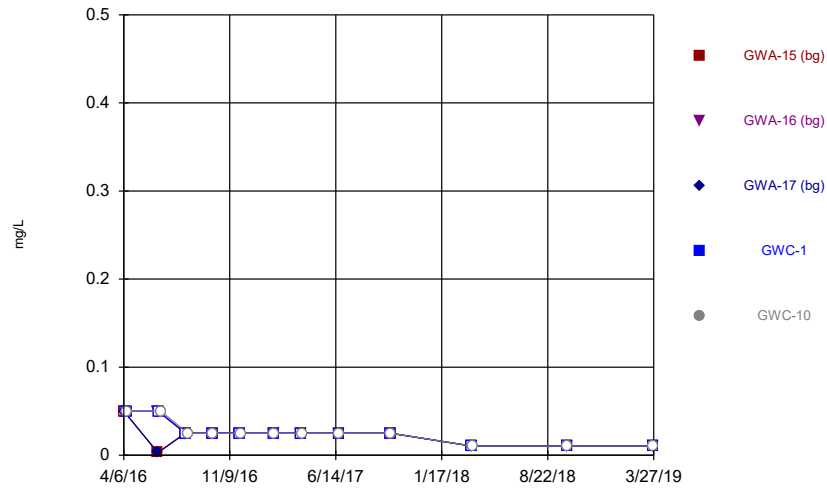
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Report alpha = 0.04762. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

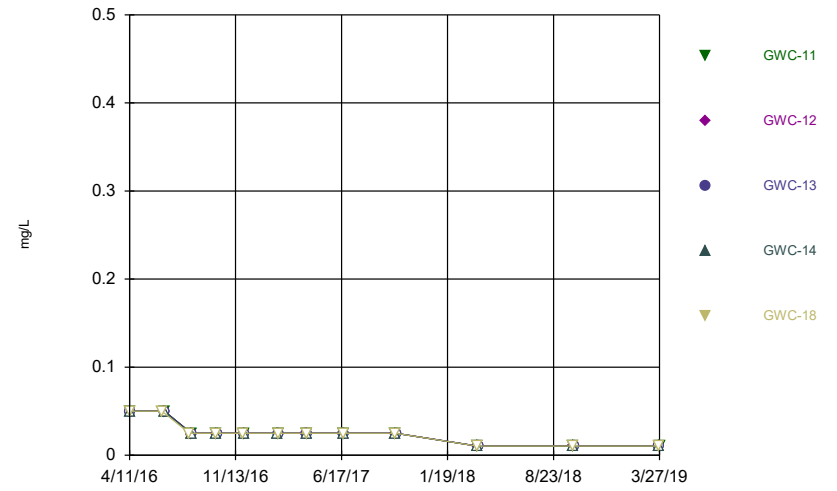
Constituent: Zinc Analysis Run 7/25/2019 2:07 PM View: Cell 1 Intra Well PLs
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



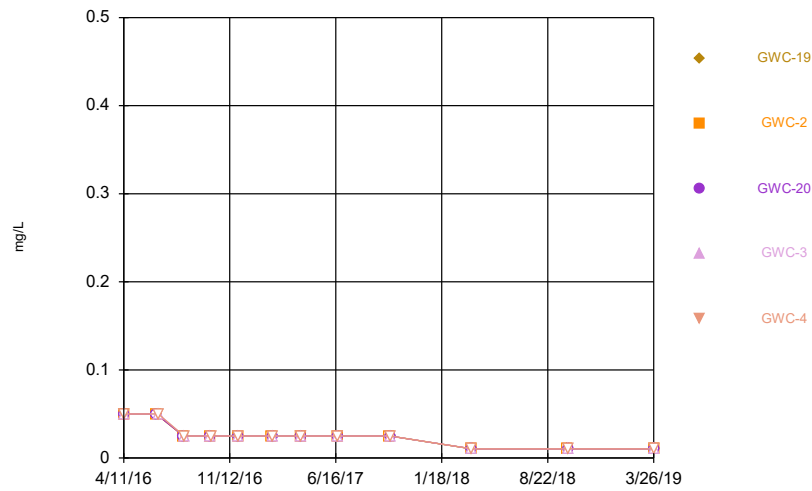
Constituent: Boron Analysis Run 8/15/2019 12:28 PM View: Cell 1 ApplIII Intra Well PLs
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



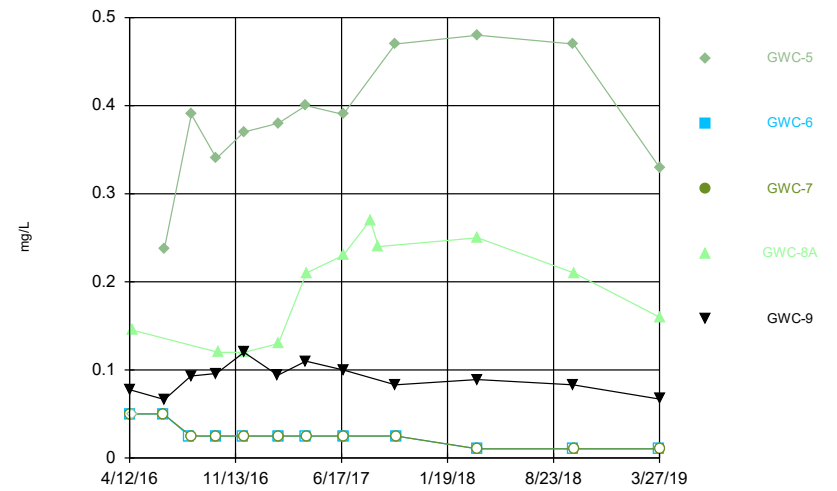
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



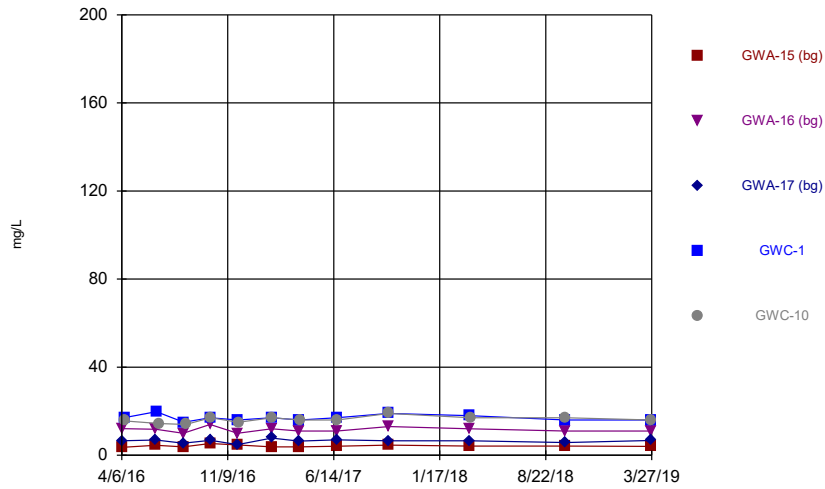
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



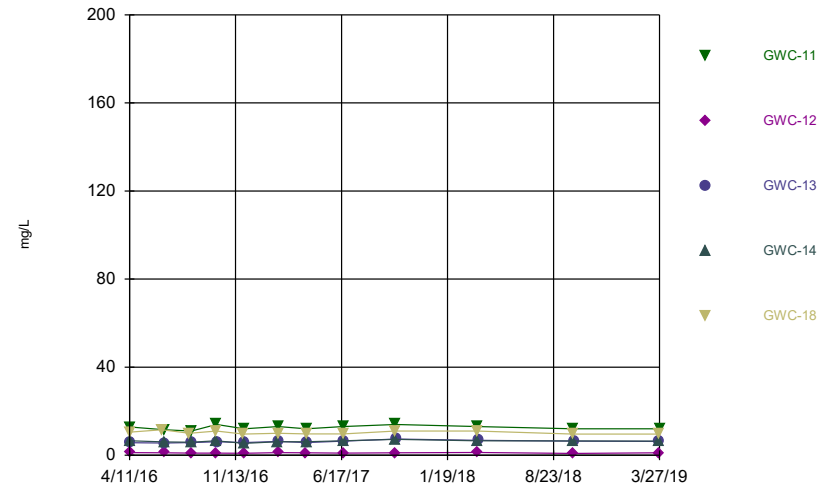
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



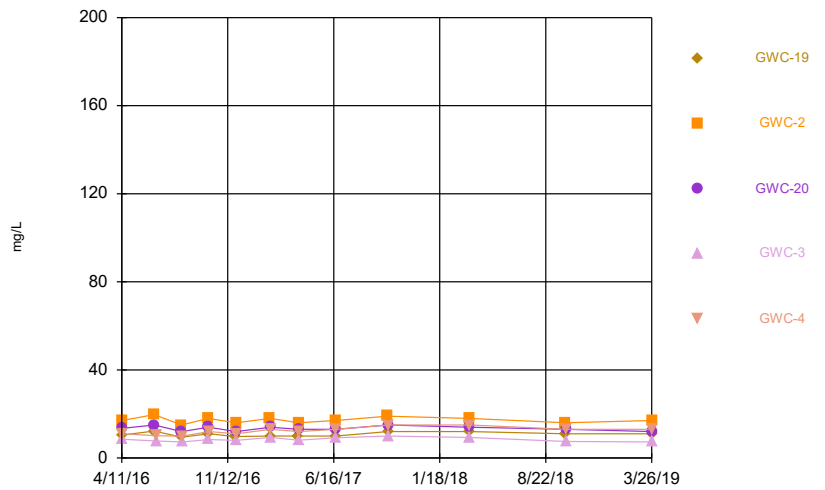
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



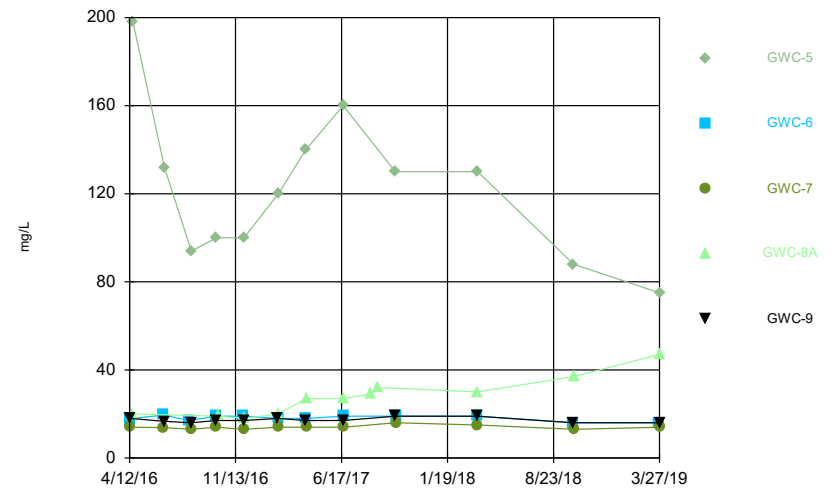
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Time Series



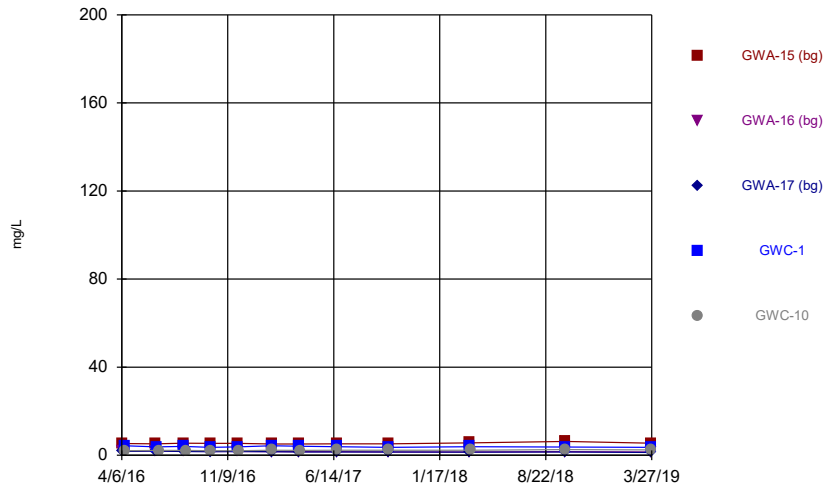
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Time Series



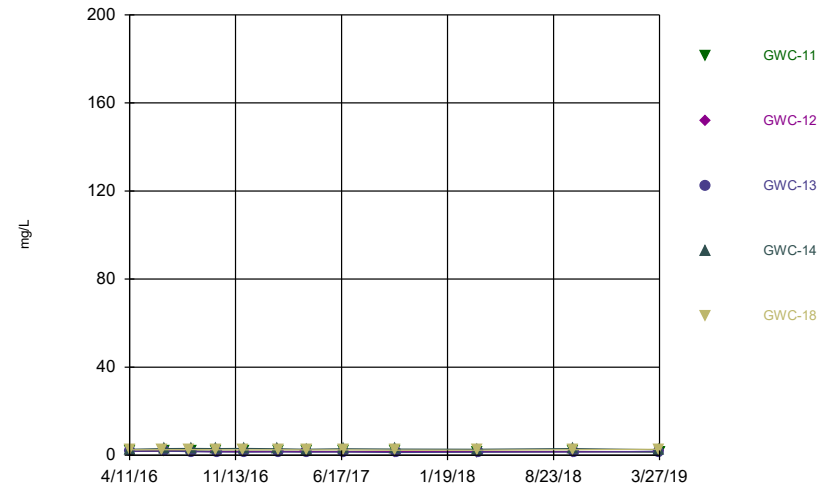
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Time Series



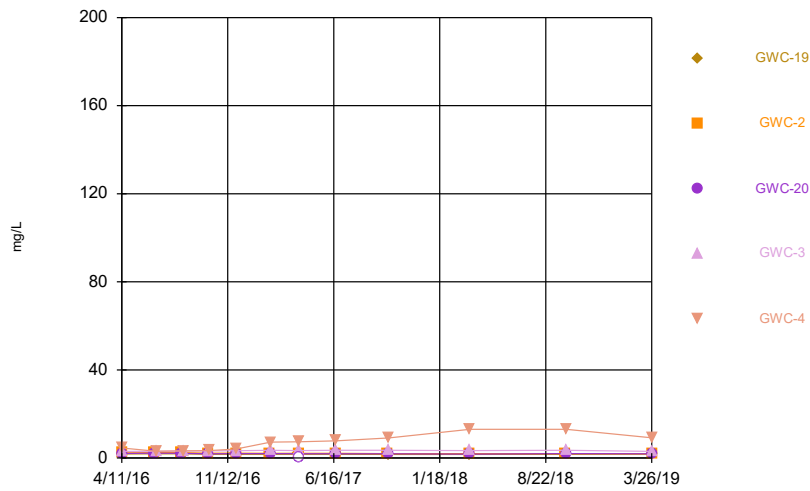
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Time Series



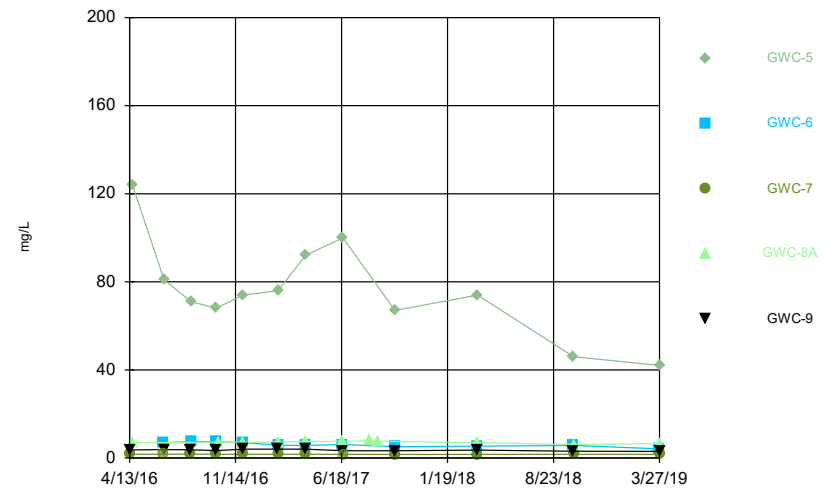
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Time Series



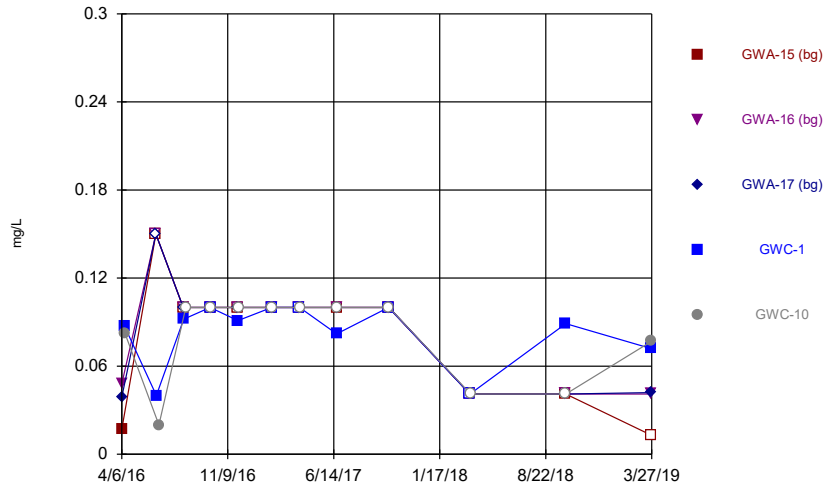
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Time Series



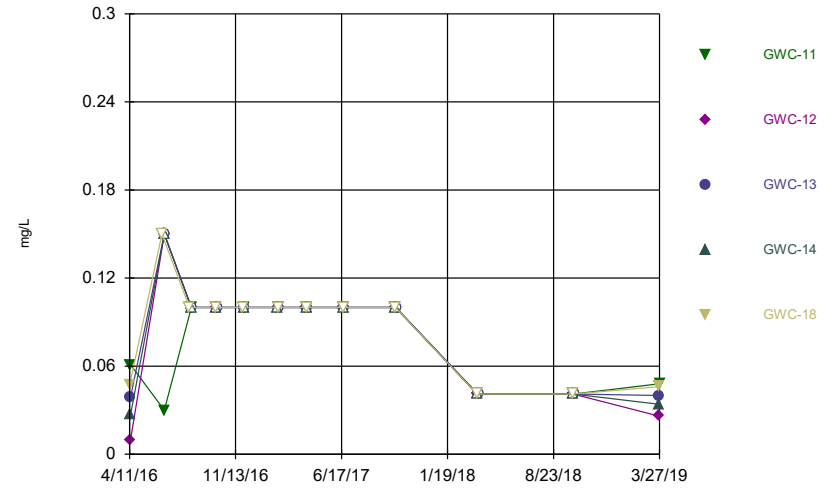
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Time Series



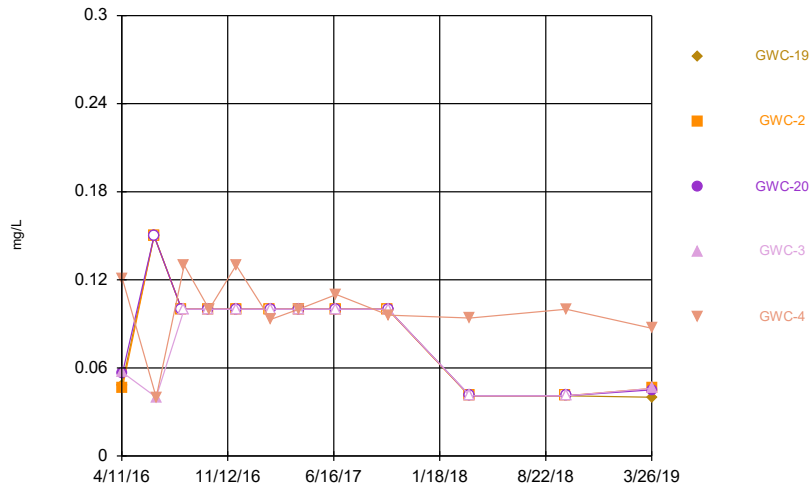
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Time Series



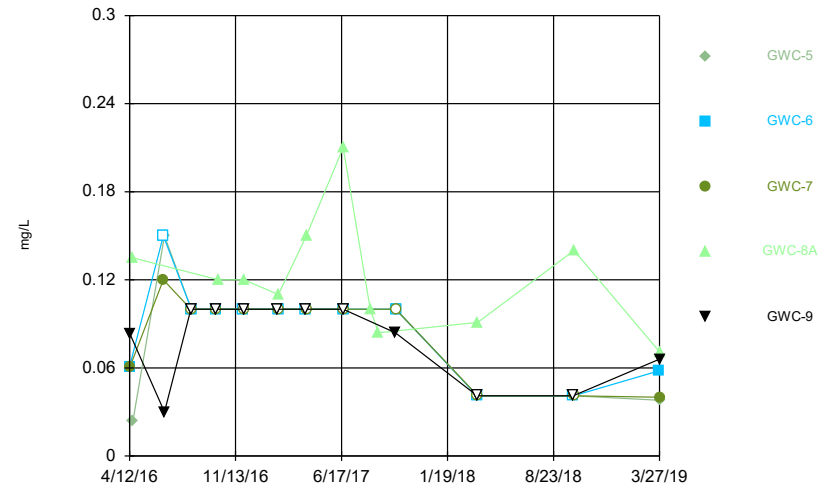
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Time Series



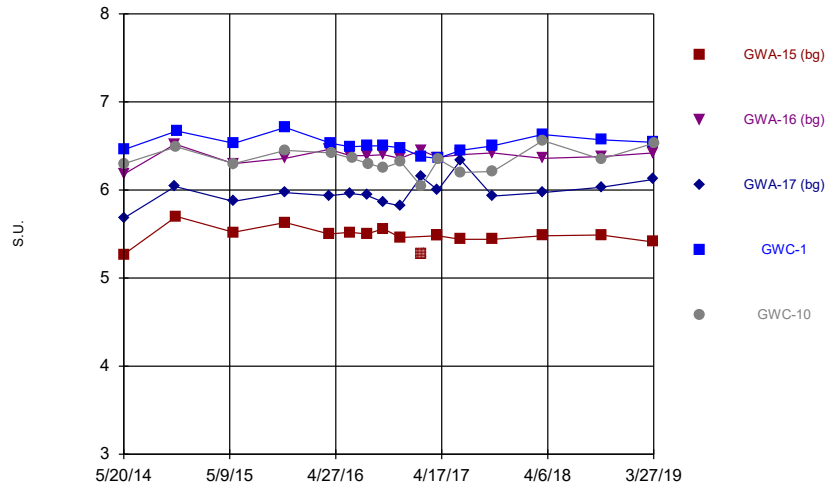
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Time Series



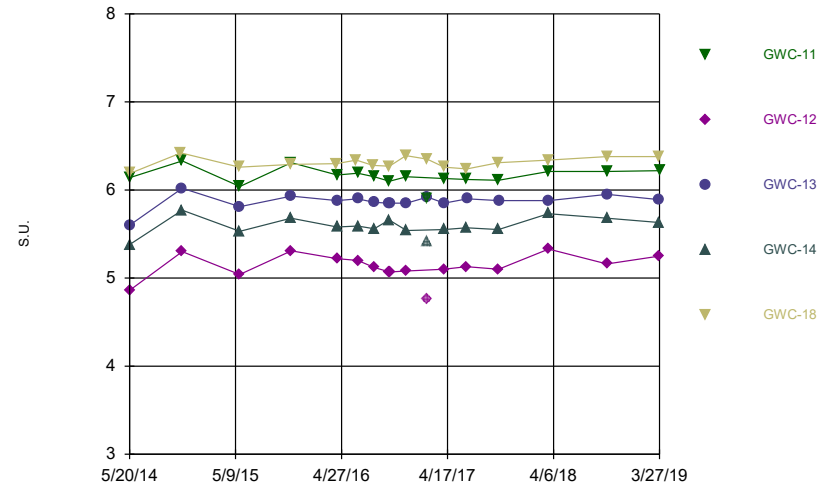
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Time Series



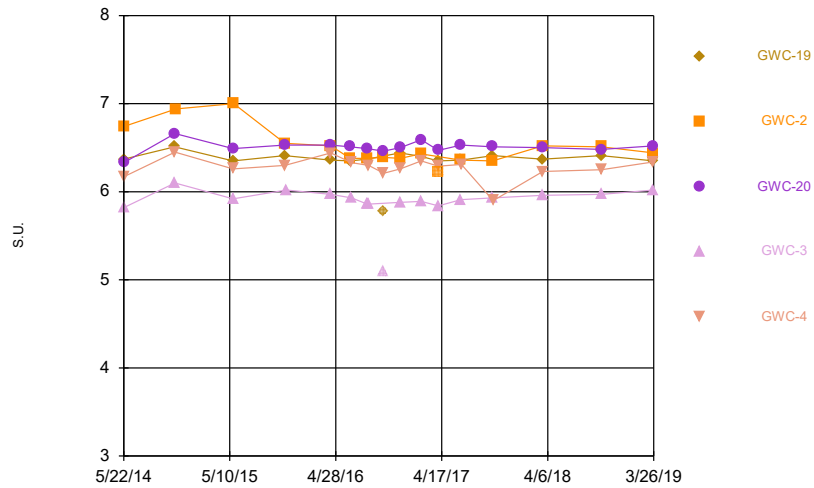
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Time Series



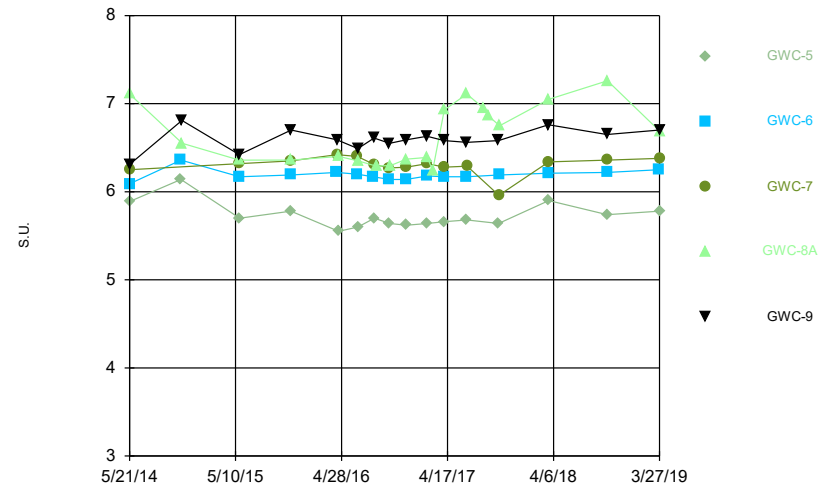
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



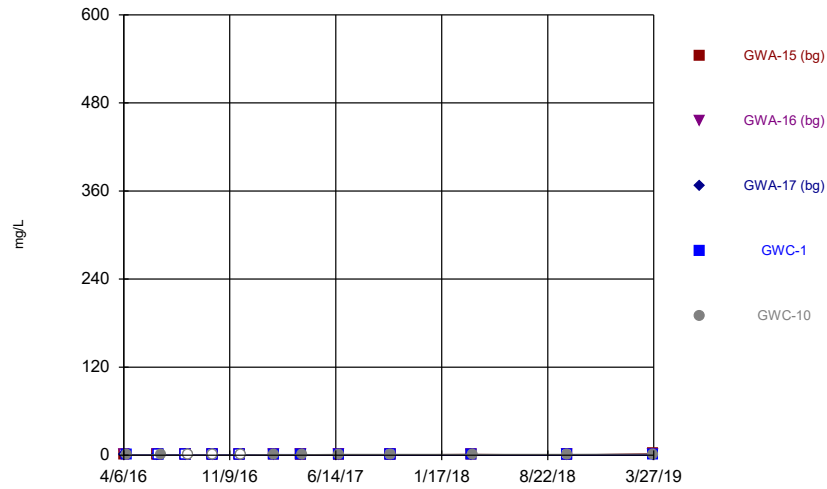
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 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



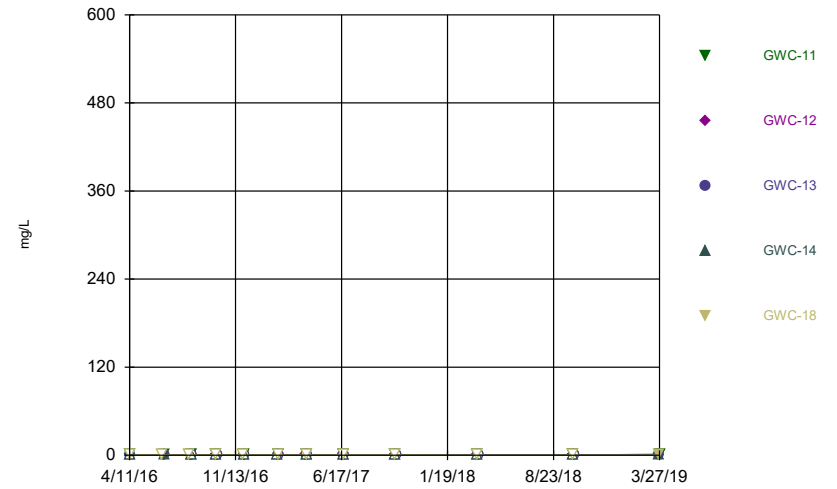
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Time Series



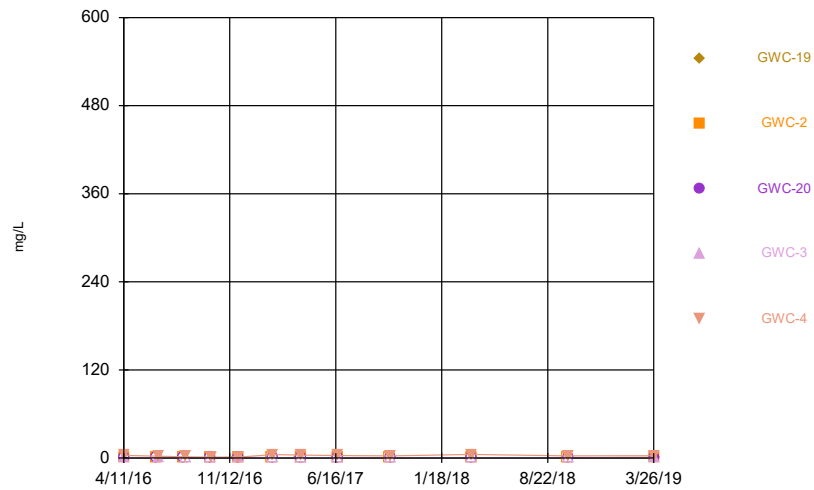
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



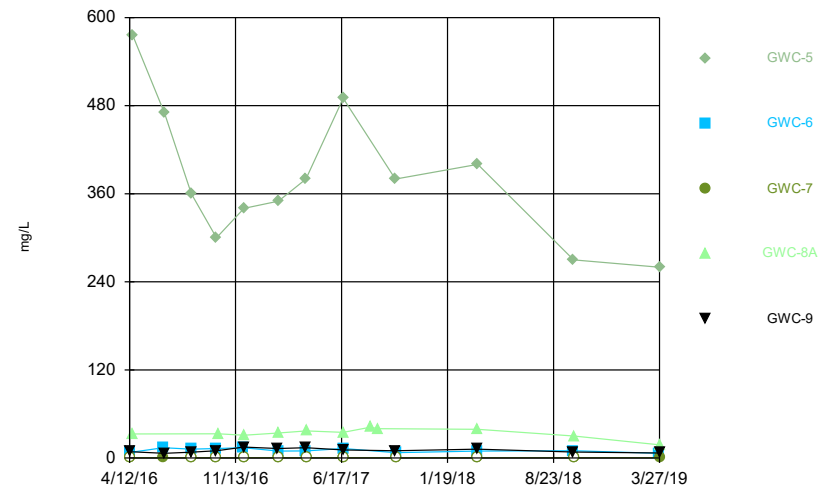
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



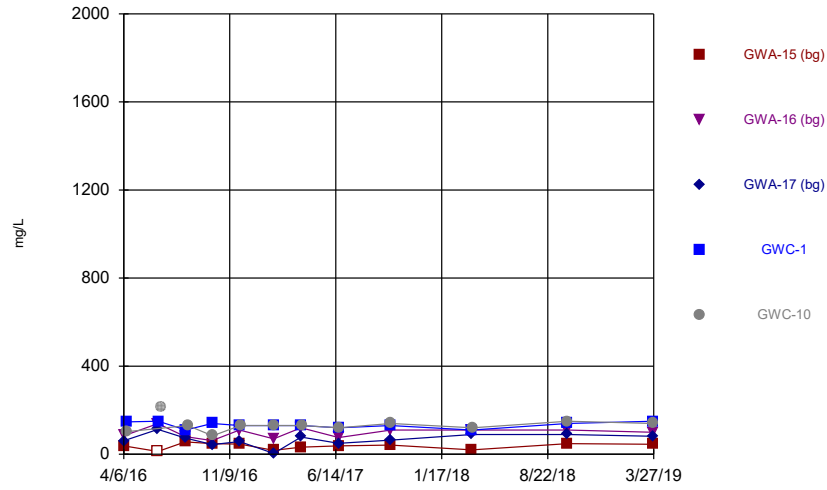
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



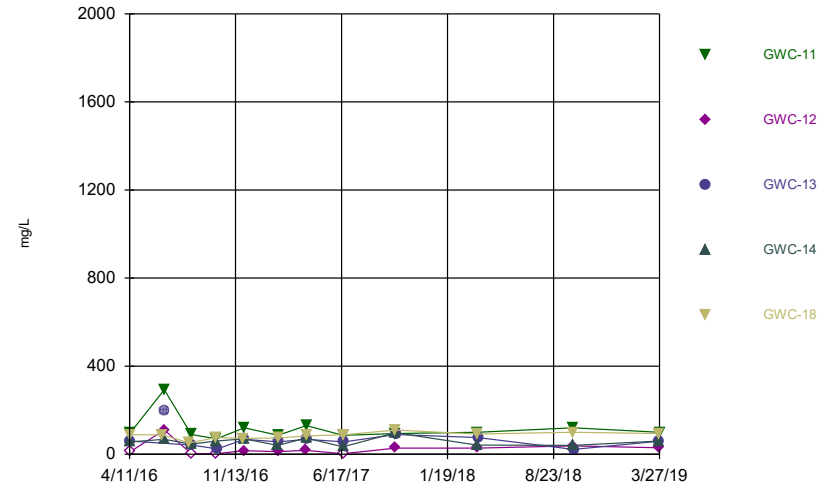
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Time Series



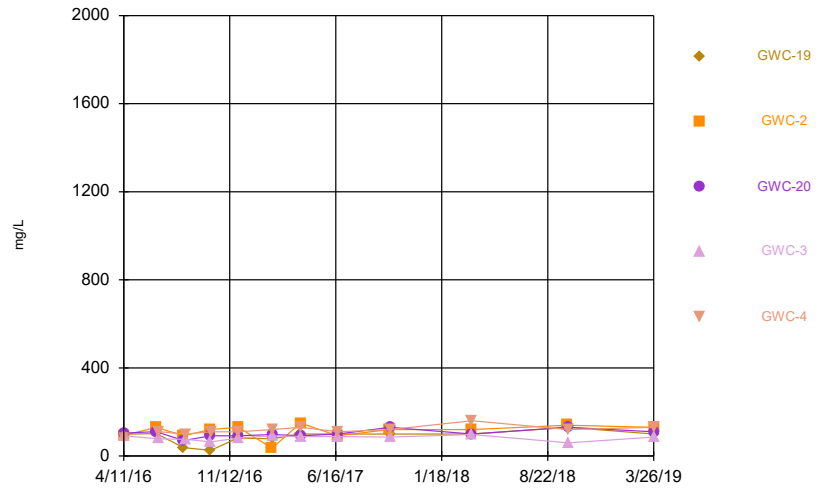
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



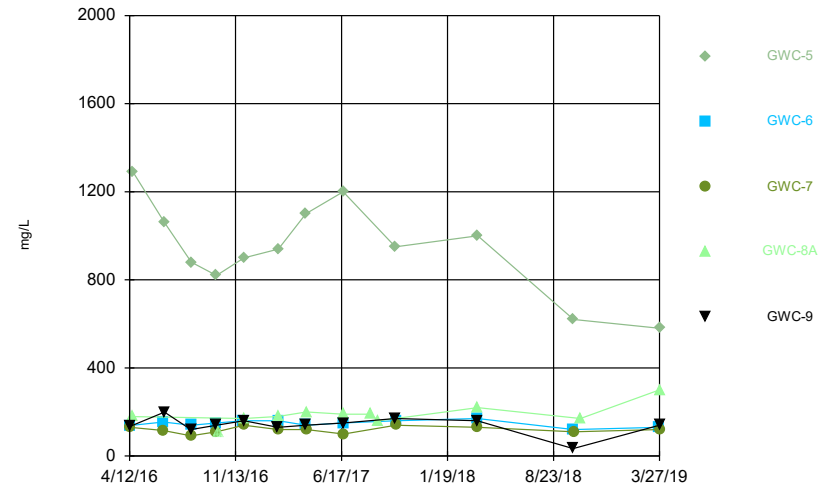
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Time Series



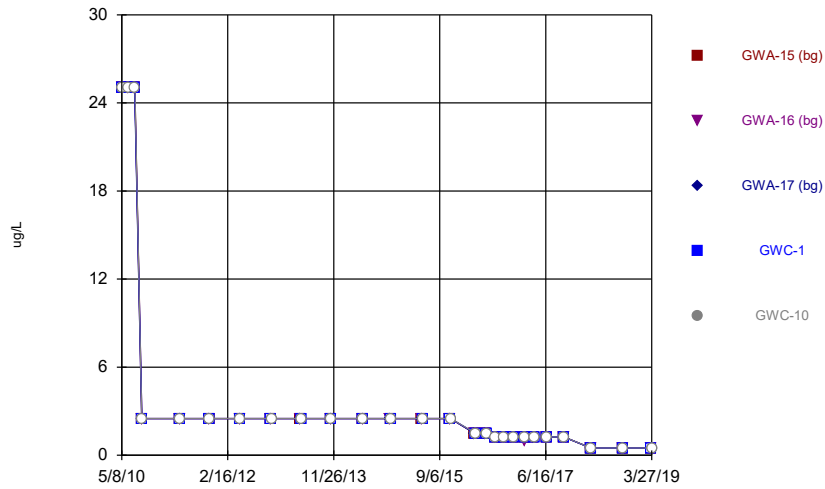
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Time Series



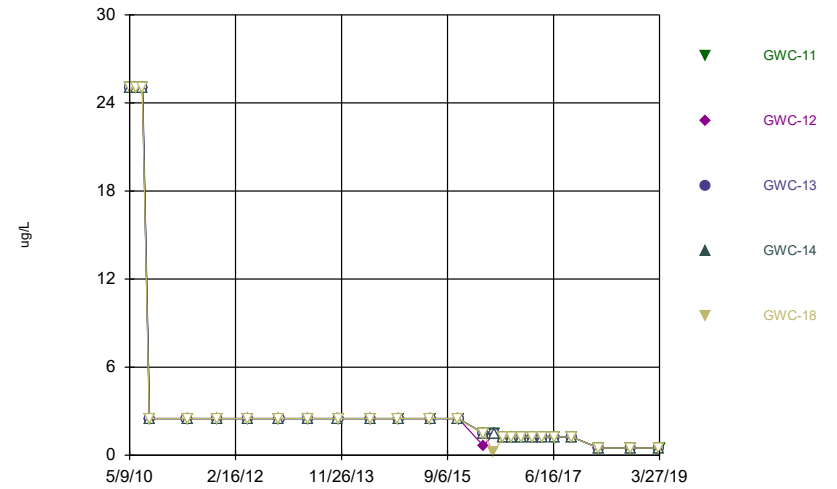
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



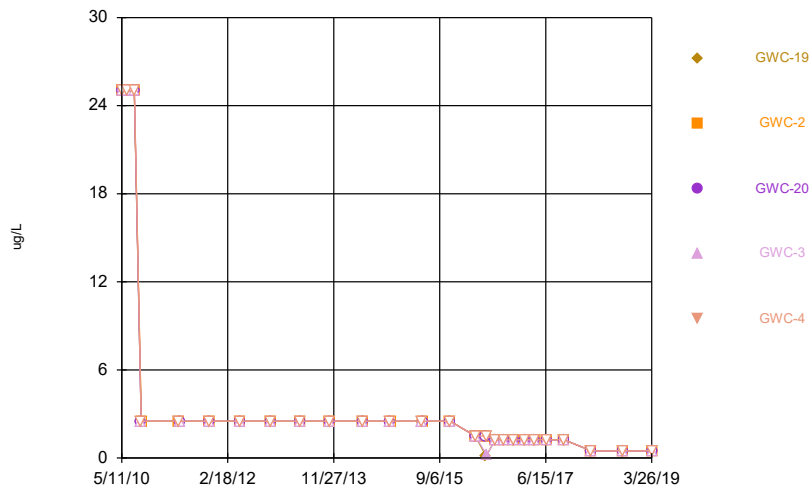
Constituent: Antimony, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



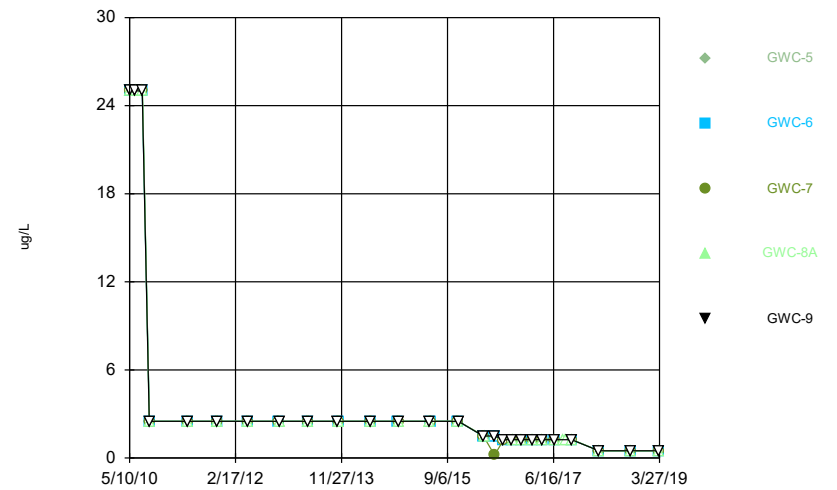
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Time Series



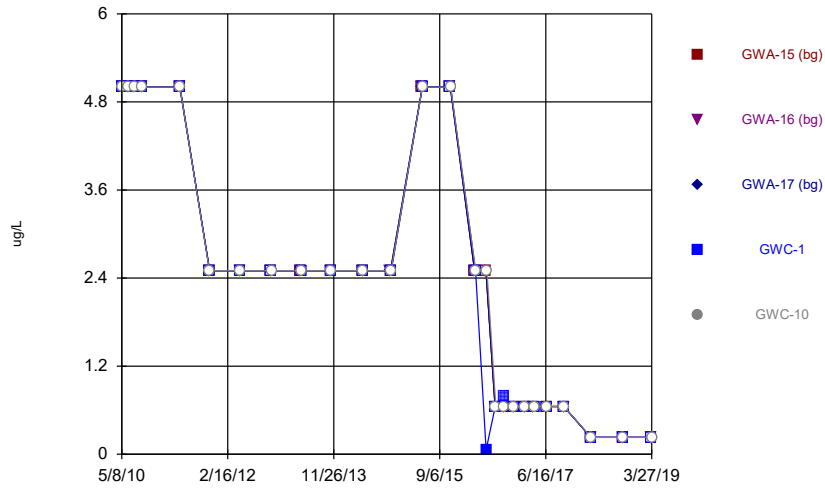
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



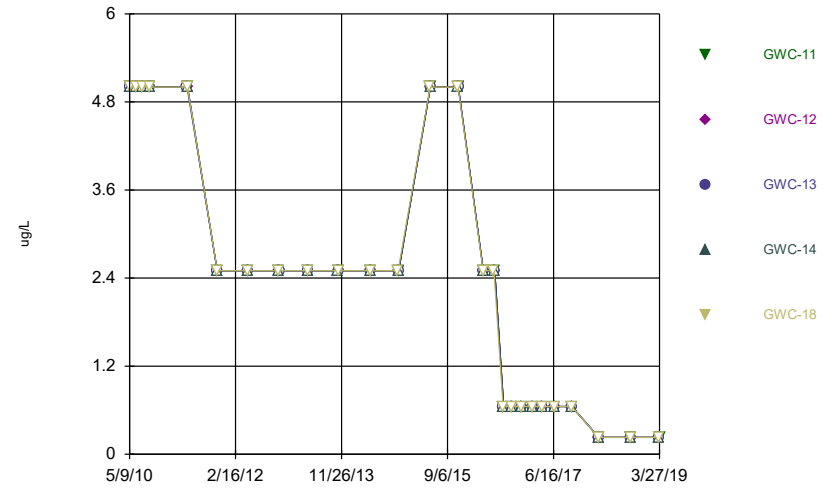
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Time Series



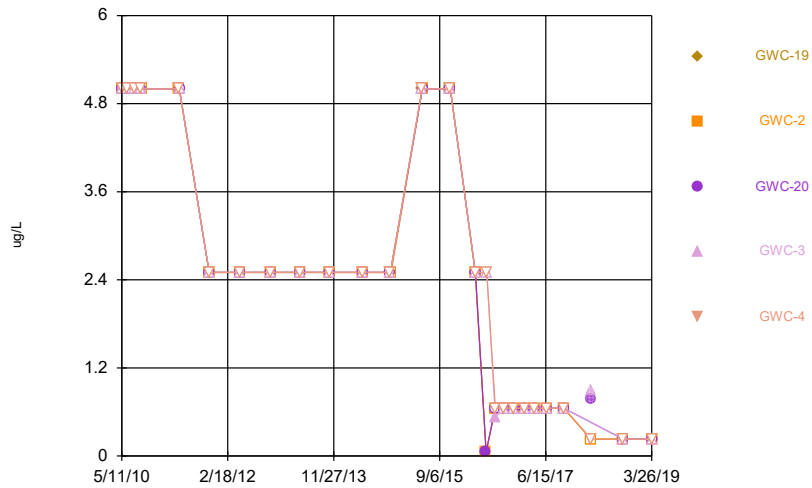
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Time Series



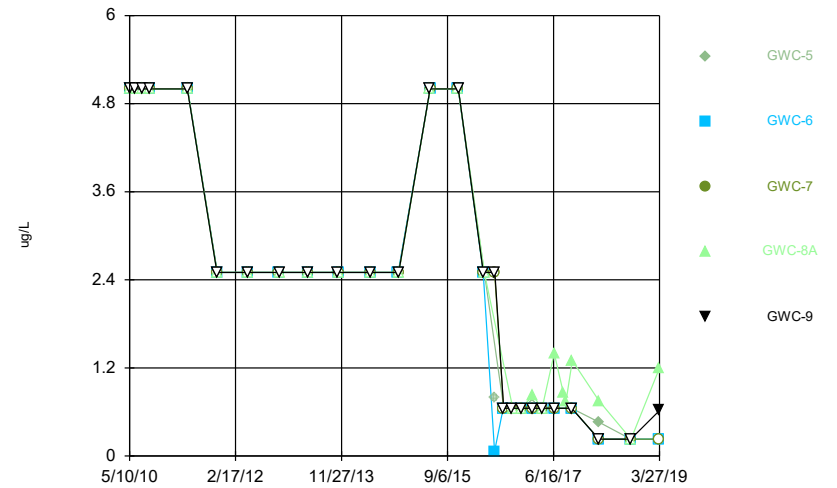
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Time Series



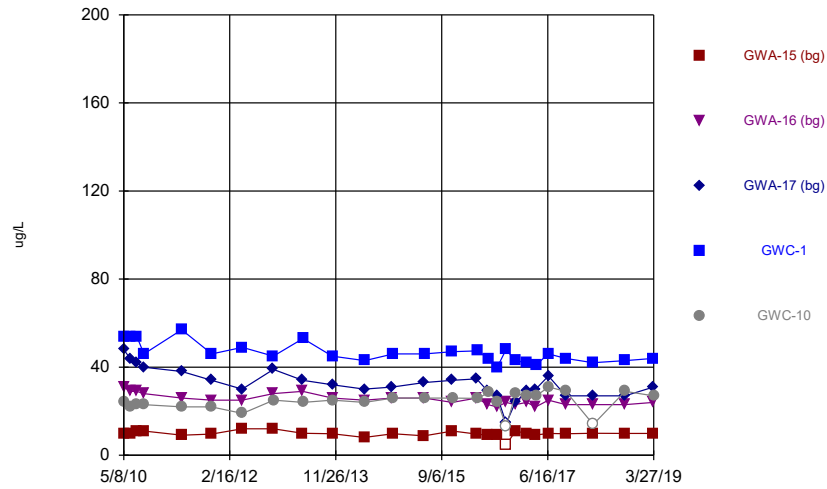
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Time Series



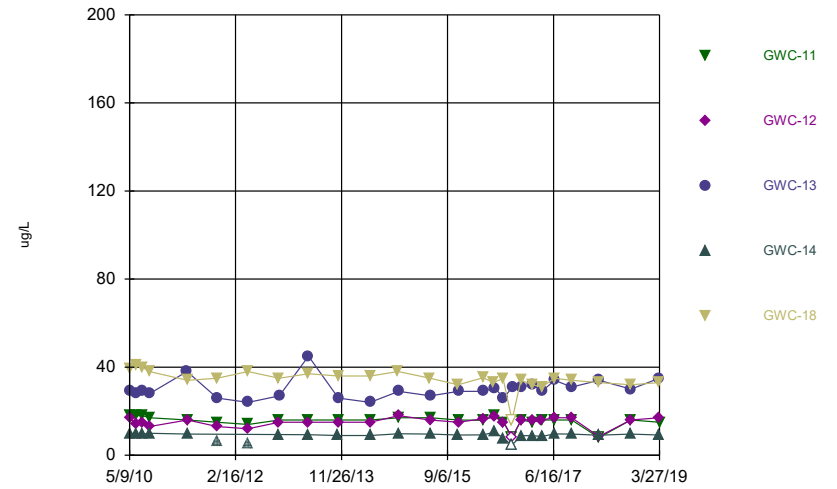
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Time Series



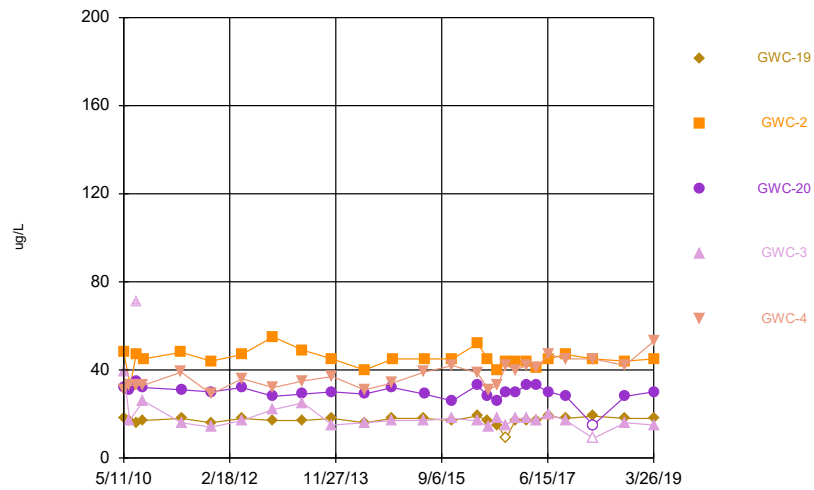
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



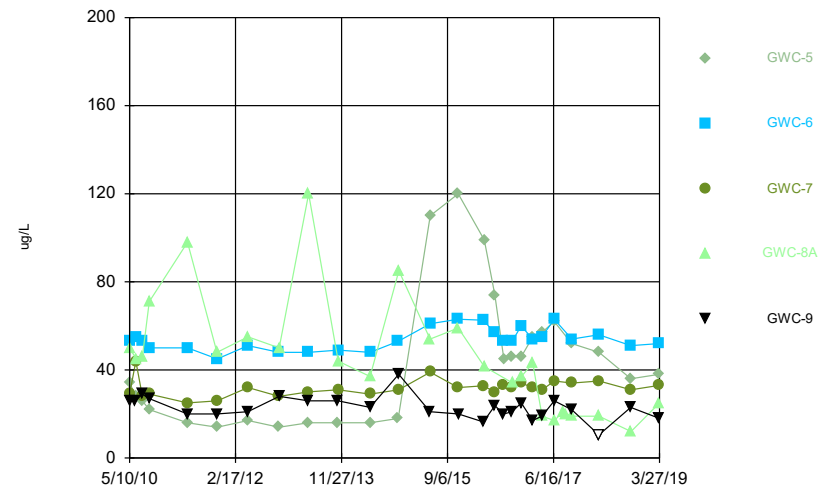
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



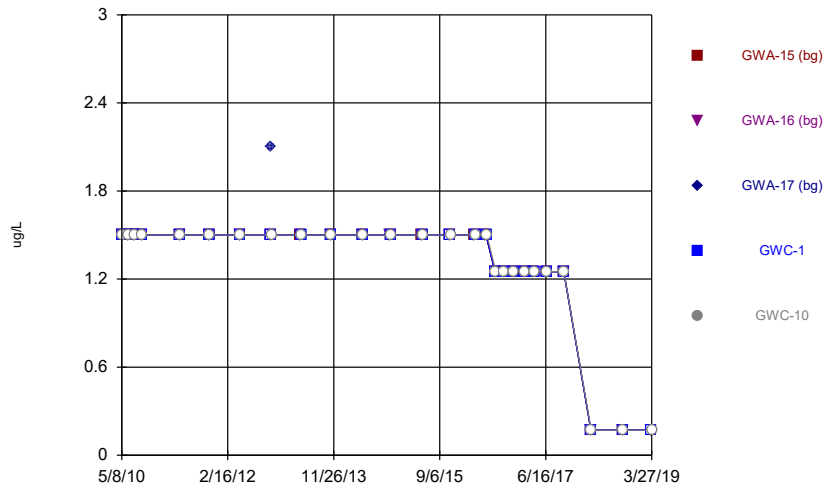
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Time Series



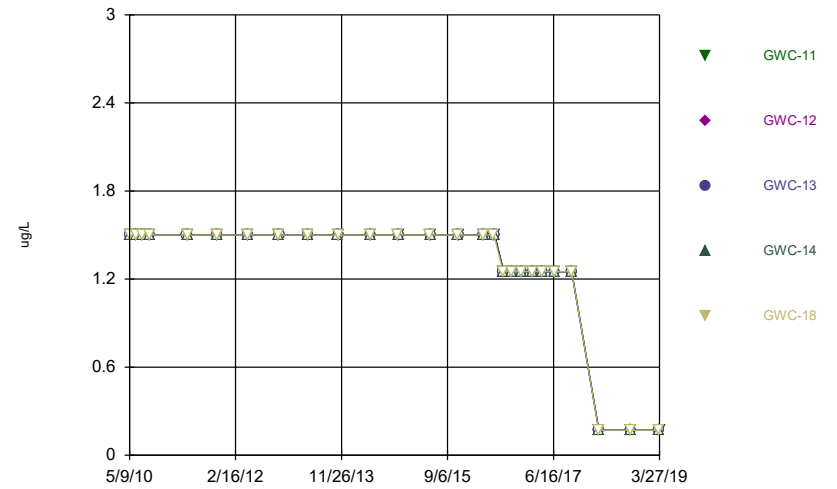
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Time Series



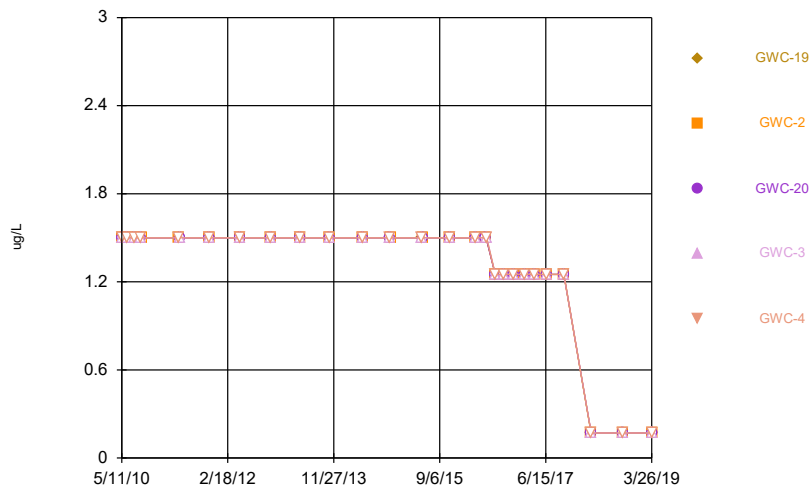
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Time Series



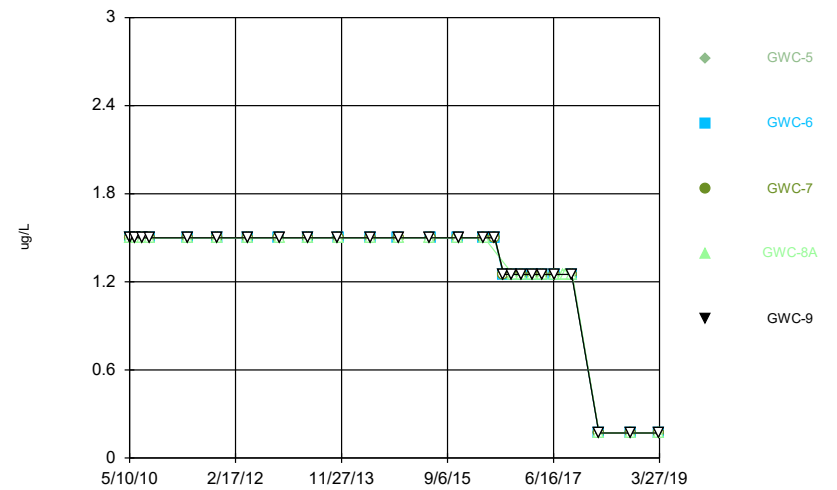
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Time Series



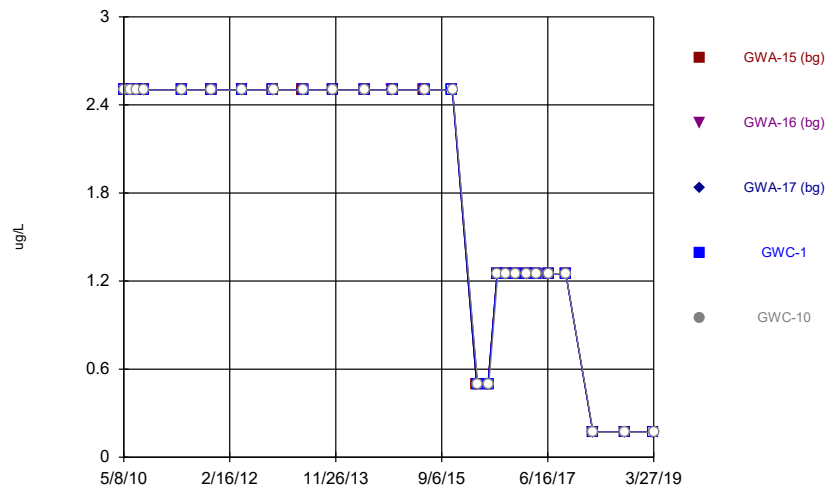
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Time Series



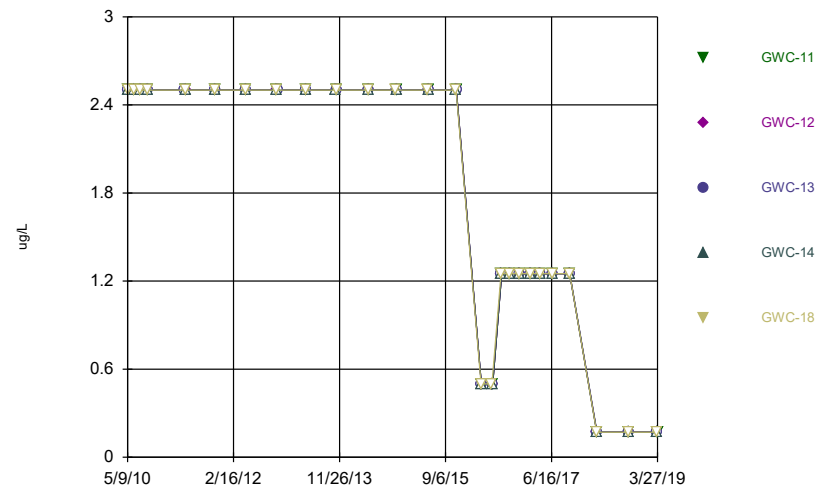
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Time Series



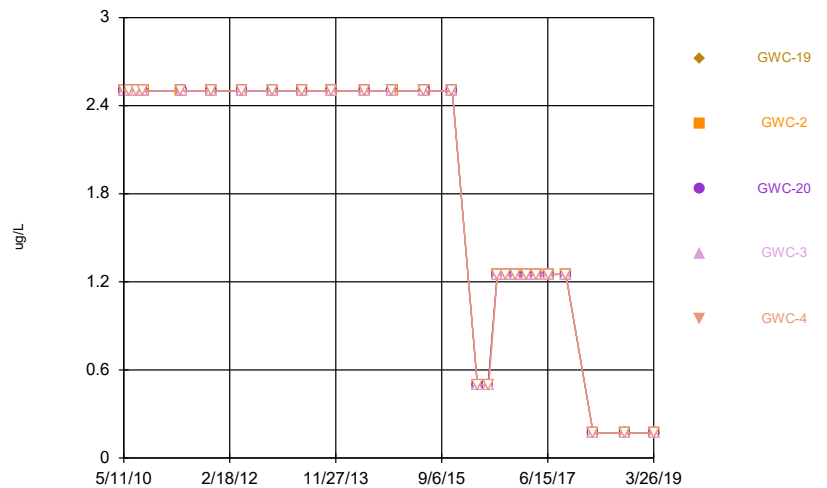
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Time Series



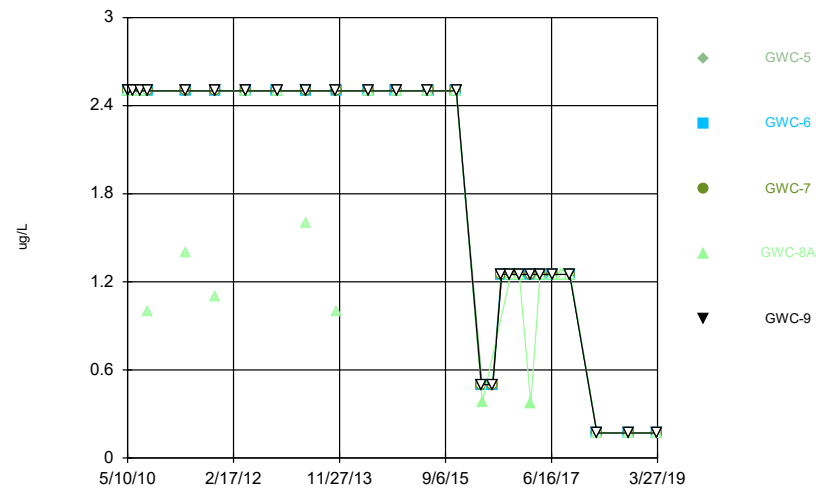
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Time Series



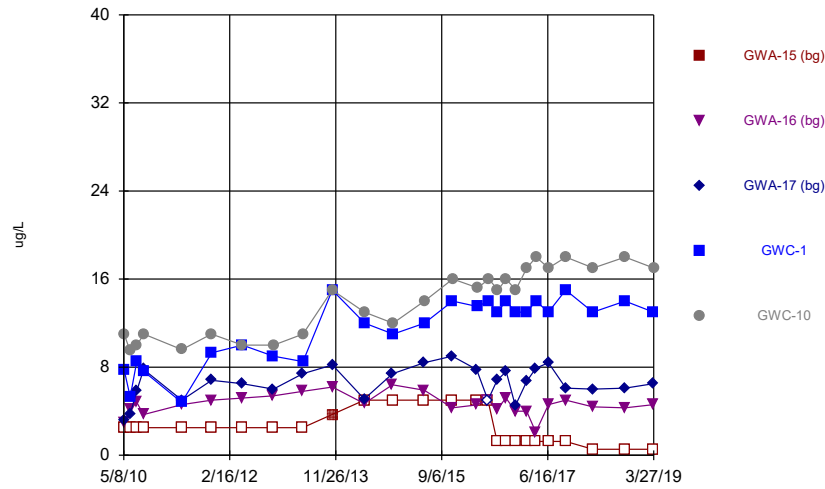
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Time Series



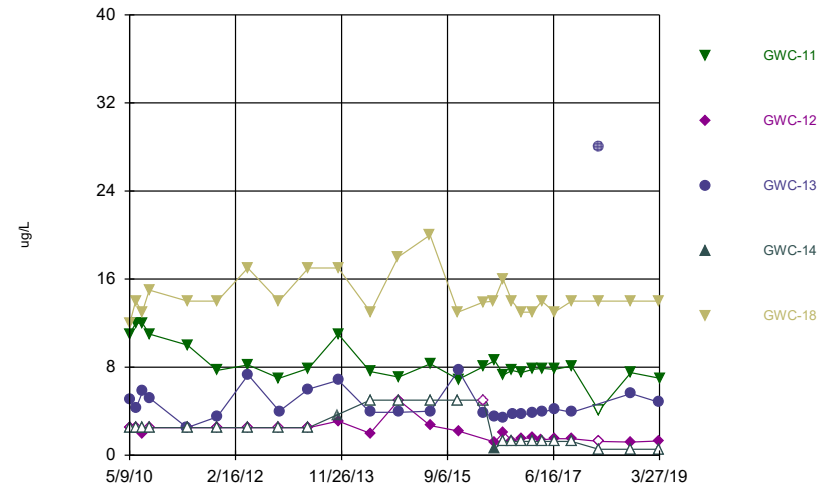
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Time Series



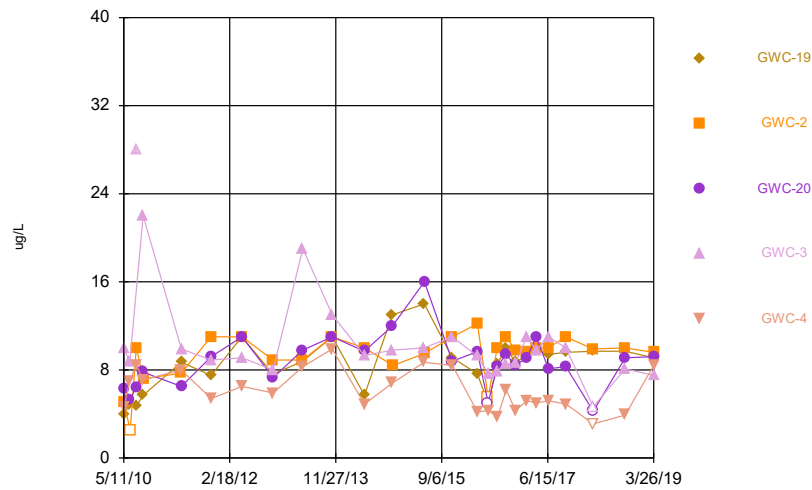
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Time Series



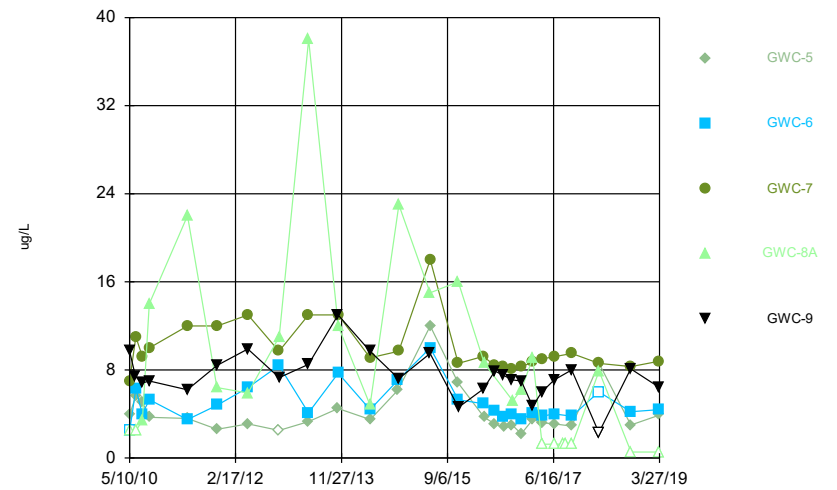
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Time Series



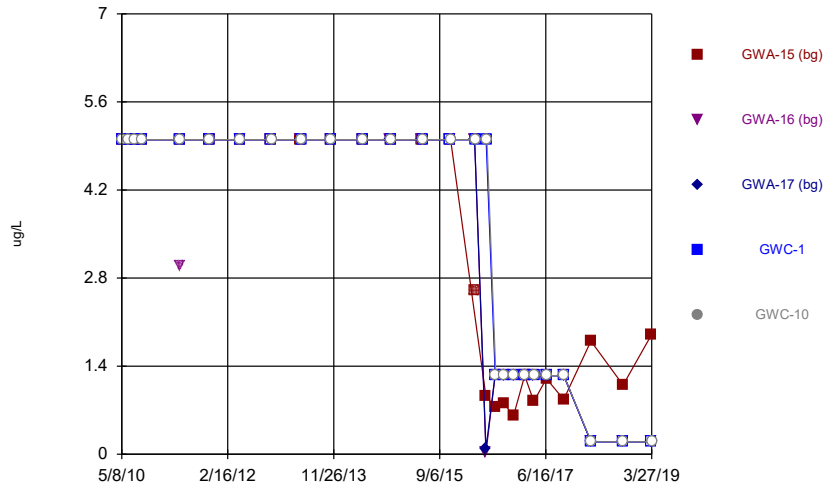
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Time Series



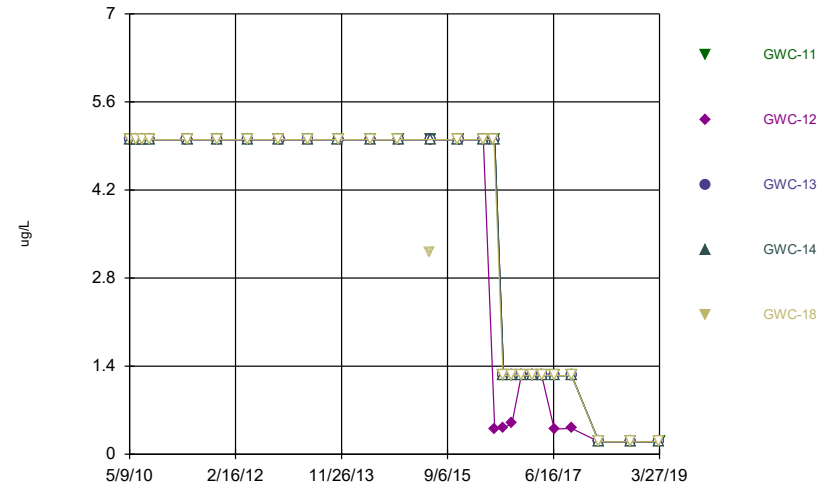
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Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



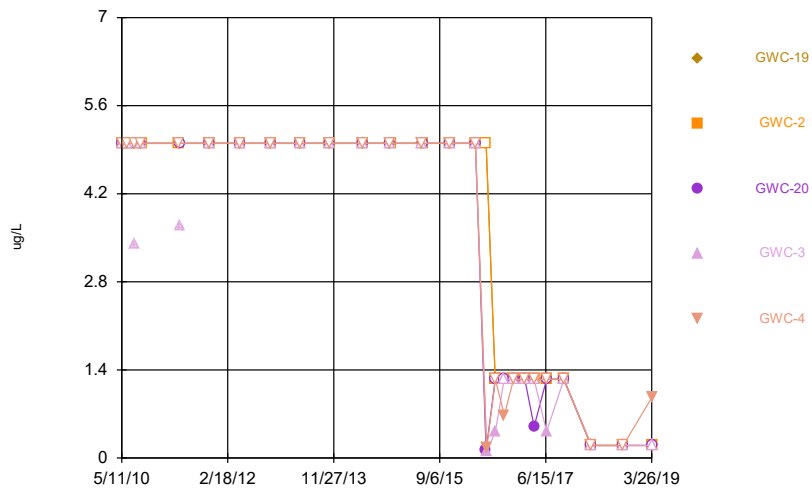
Constituent: Cobalt, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
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Time Series



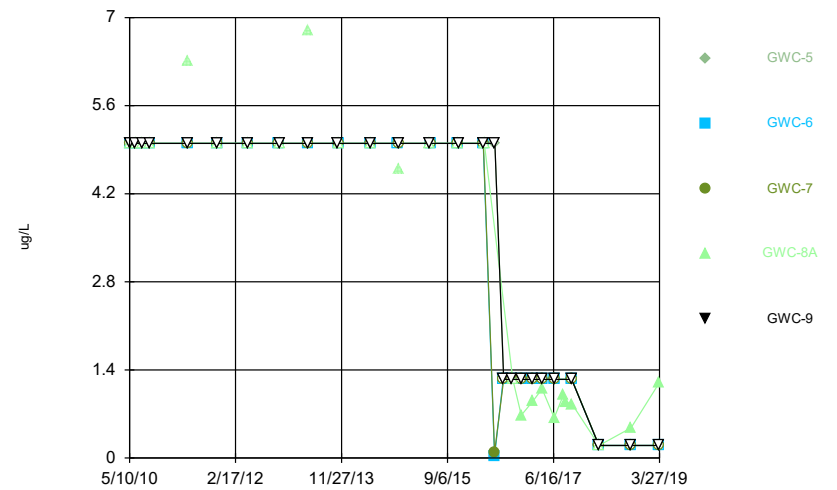
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Time Series



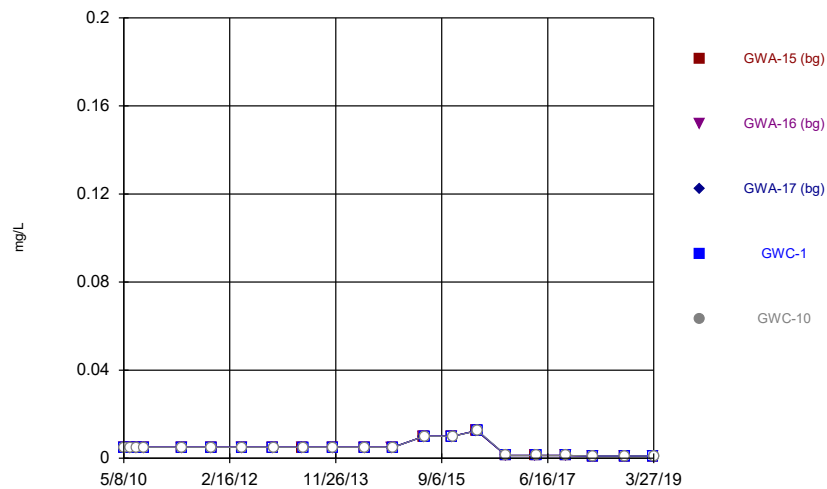
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Time Series



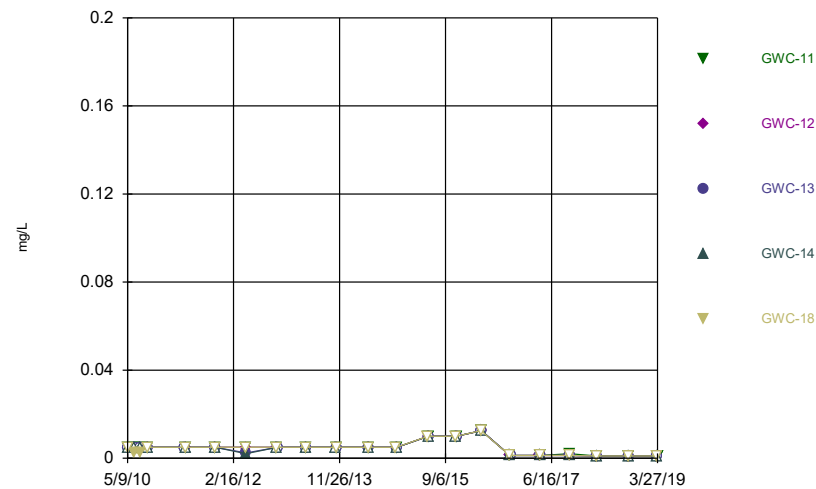
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Time Series



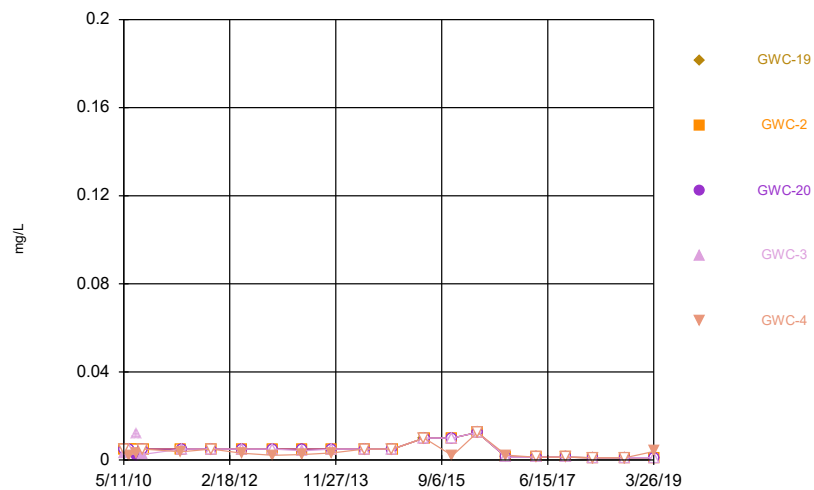
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Time Series



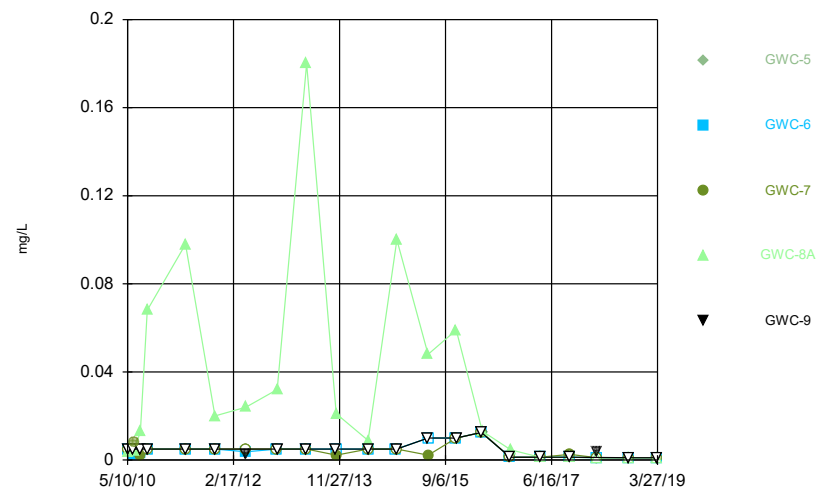
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Time Series



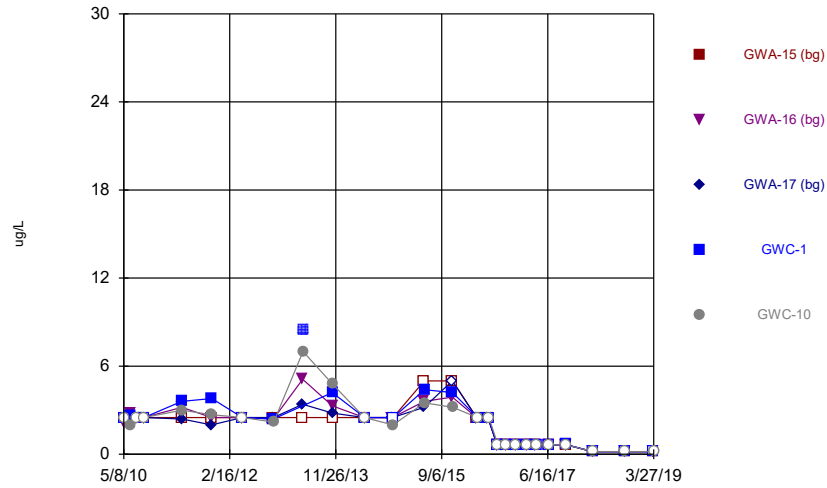
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Time Series



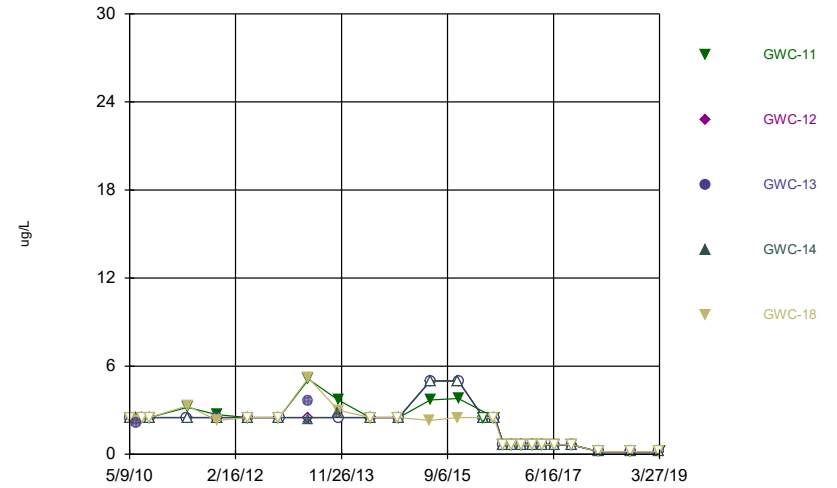
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Time Series



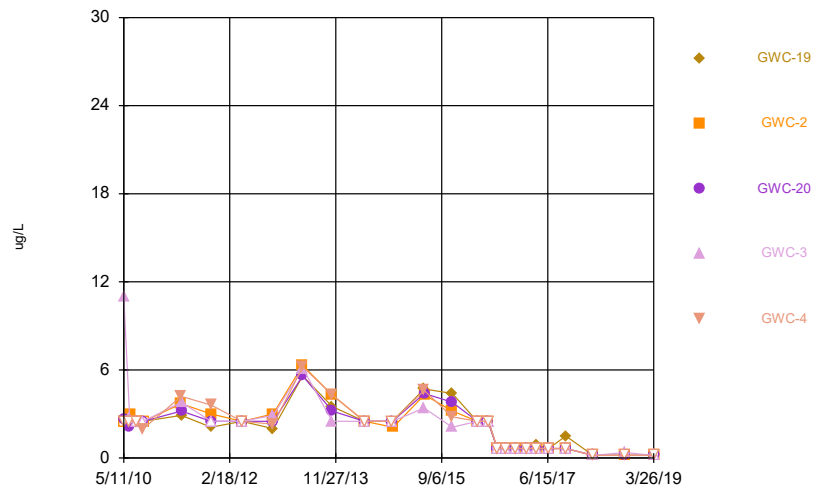
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Time Series



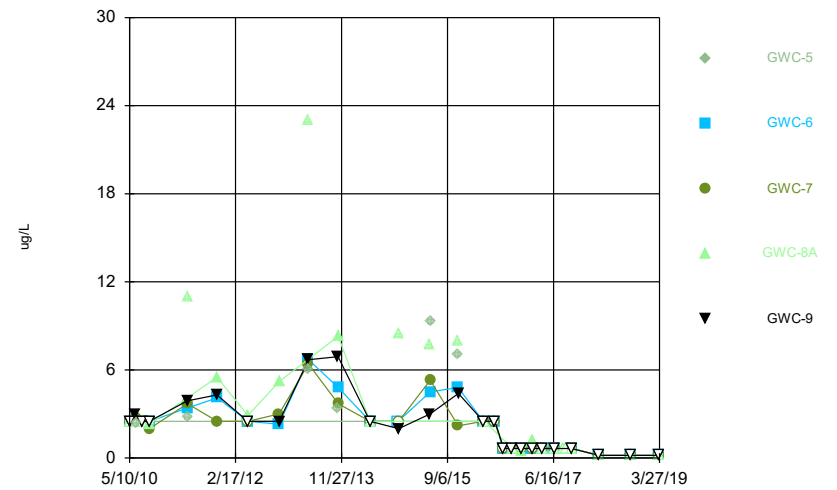
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Time Series



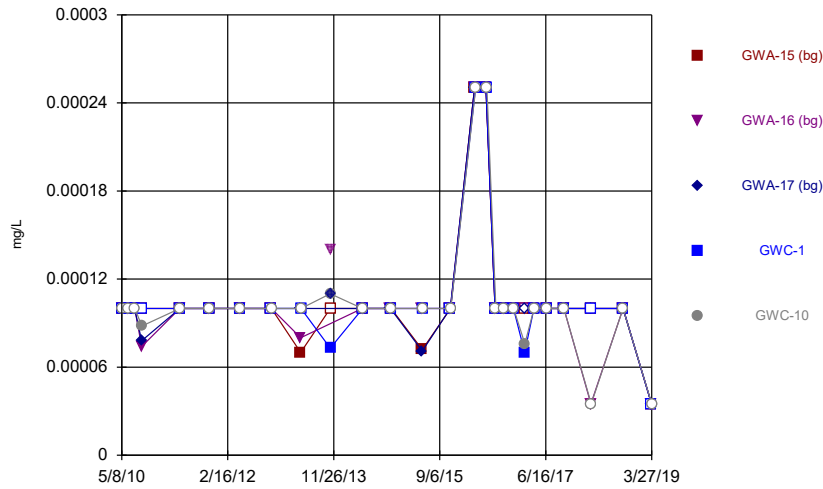
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



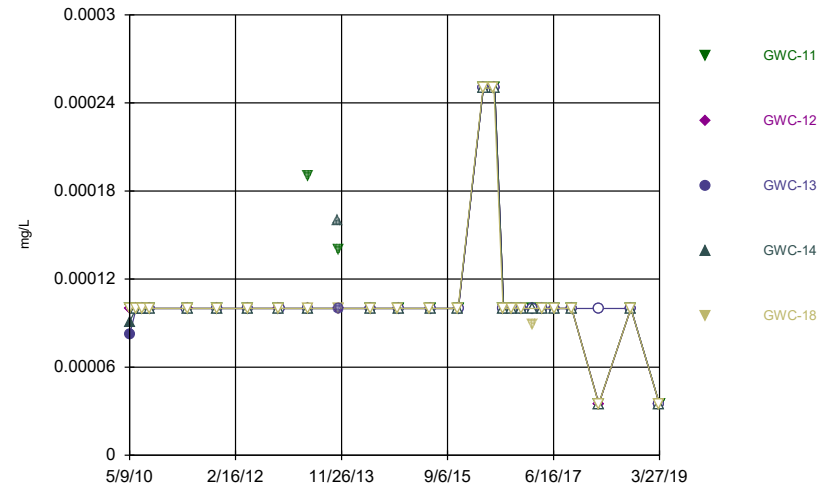
Constituent: Lead, Total Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



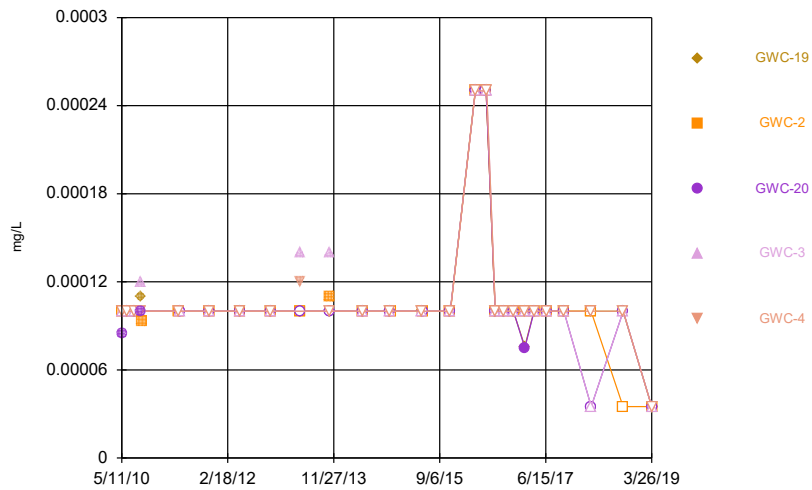
Constituent: Mercurly Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



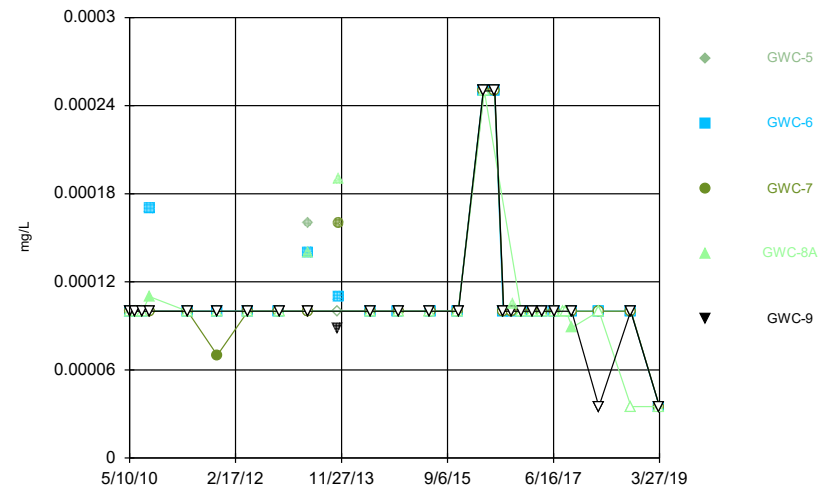
Constituent: Mercurly Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



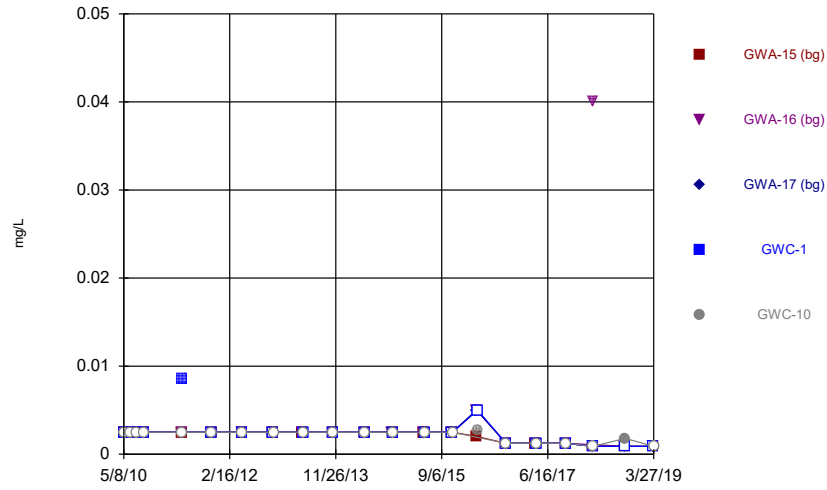
Constituent: Mercurly Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



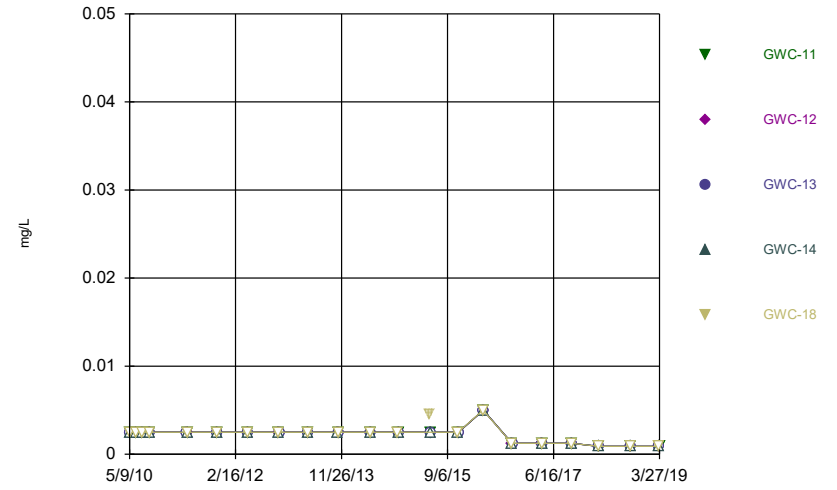
Constituent: Mercurly Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



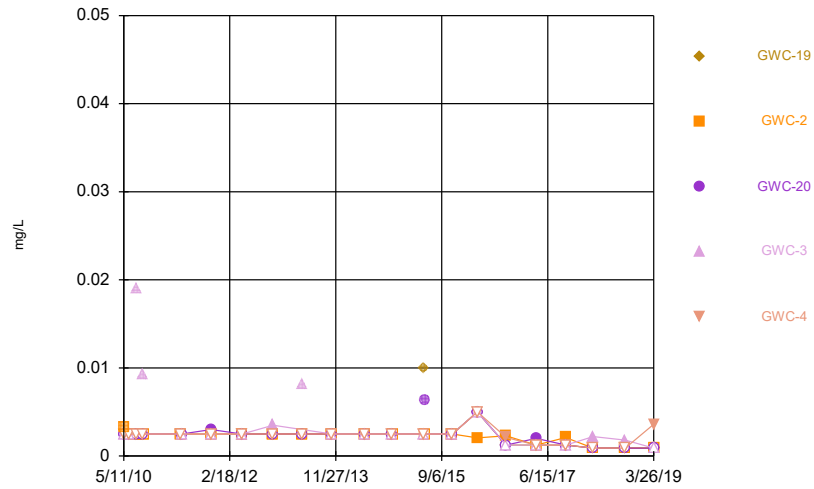
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



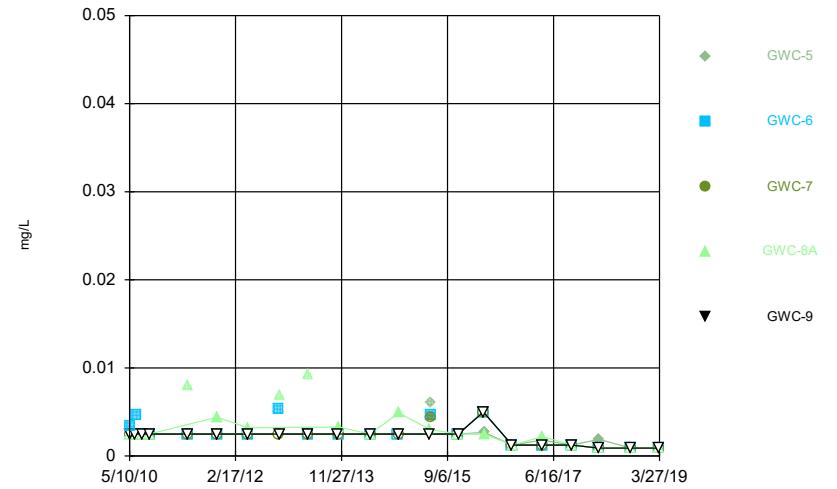
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



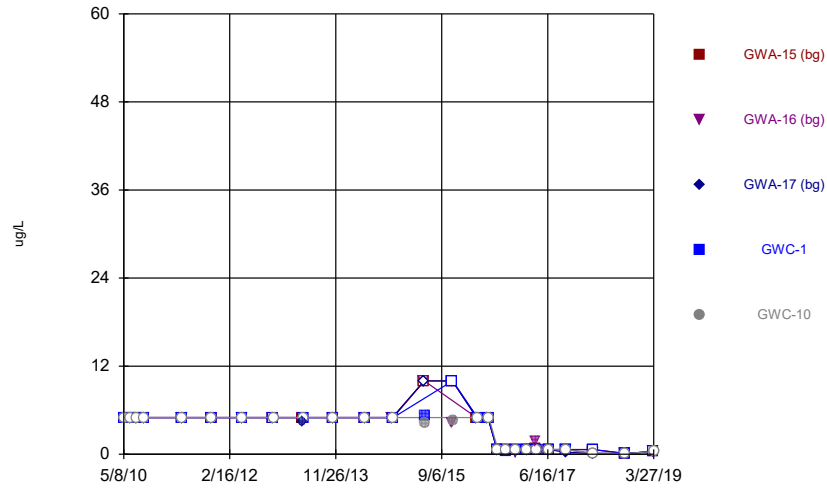
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



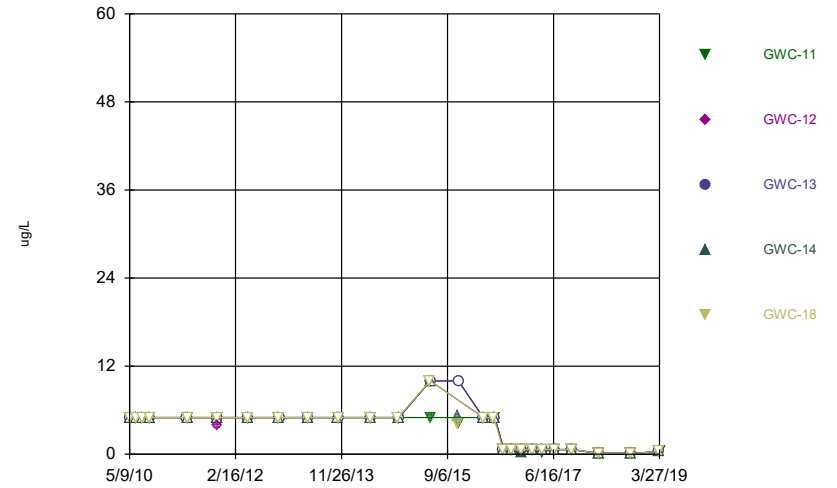
Constituent: Nickel Analysis Run 7/25/2019 1:35 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



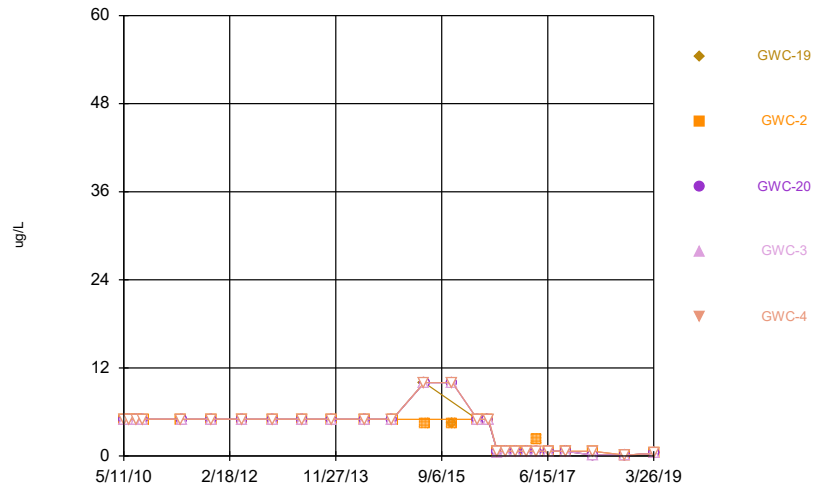
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



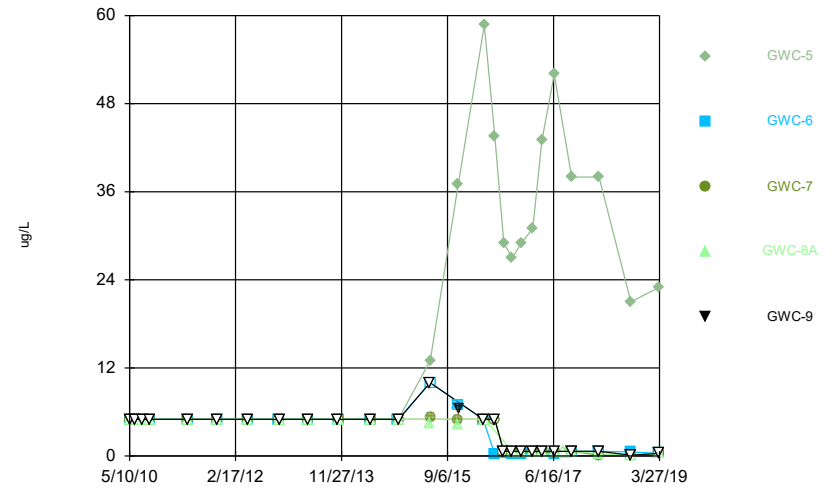
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



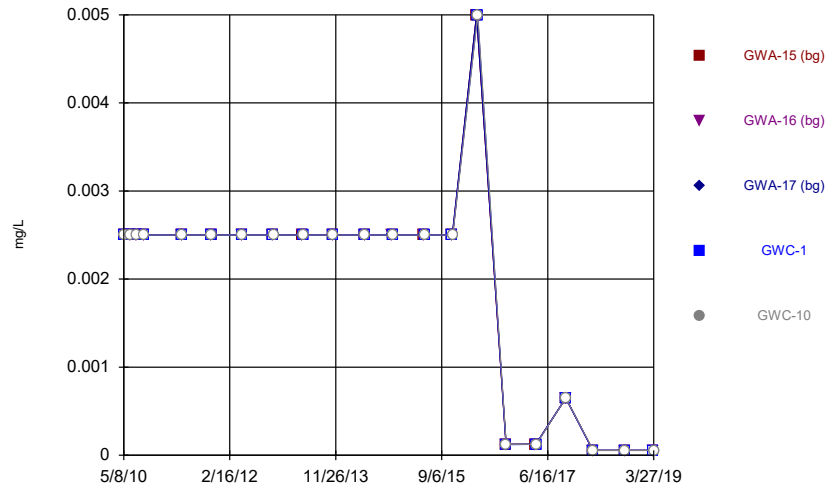
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



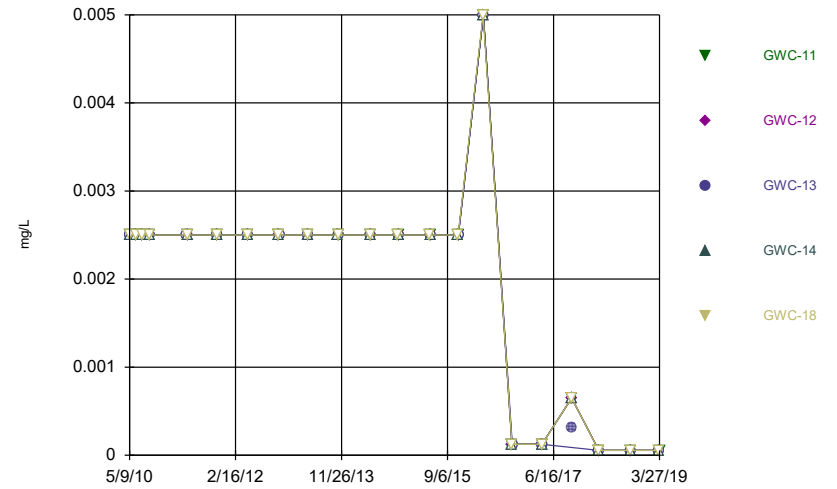
Constituent: Selenium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



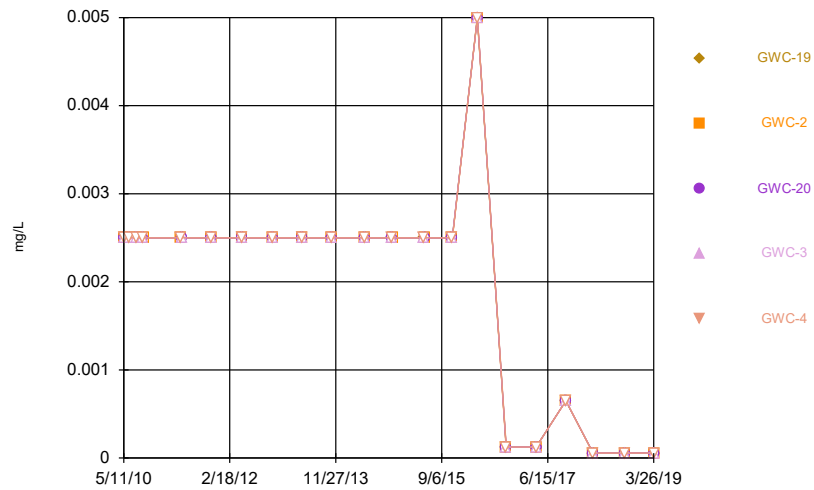
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



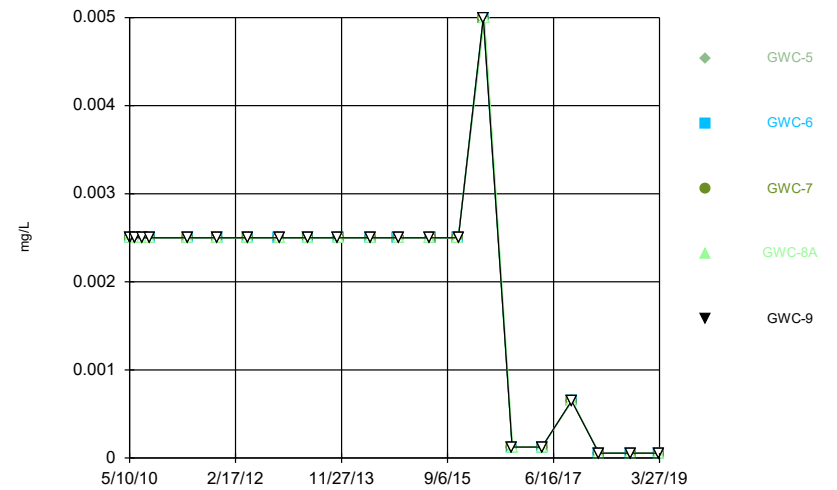
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



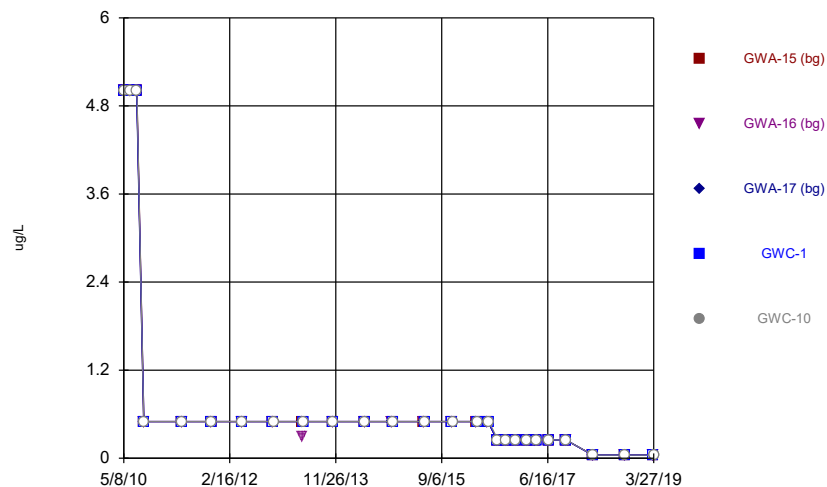
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



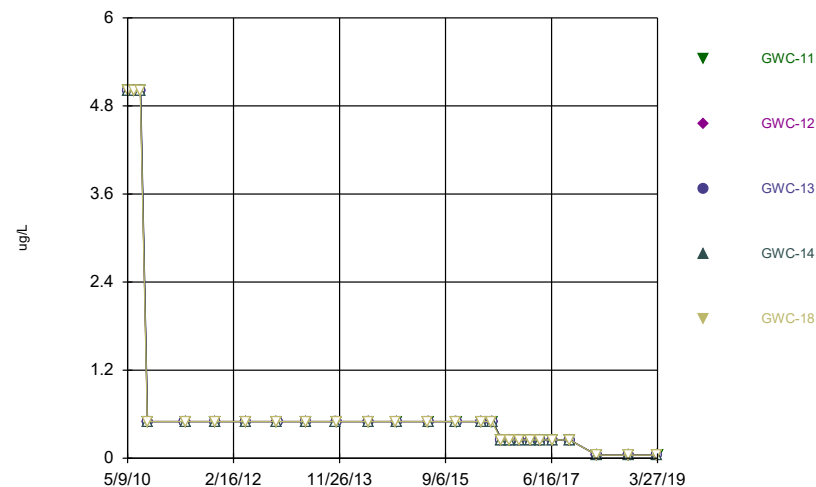
Constituent: Silver Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



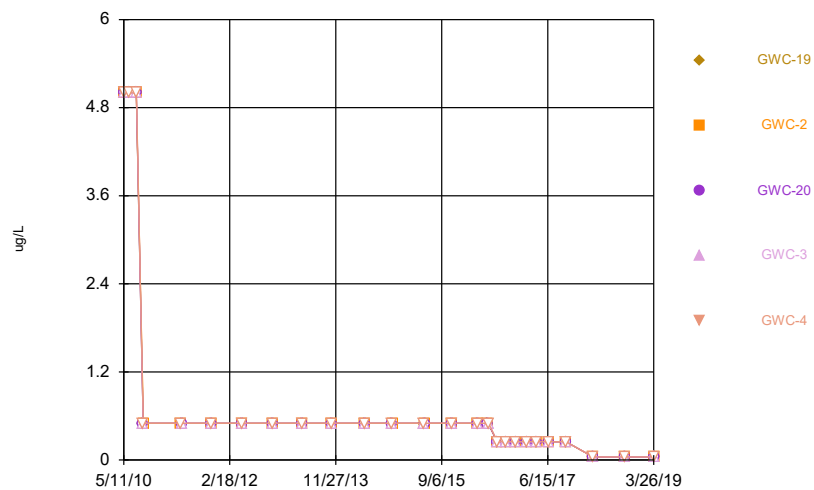
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



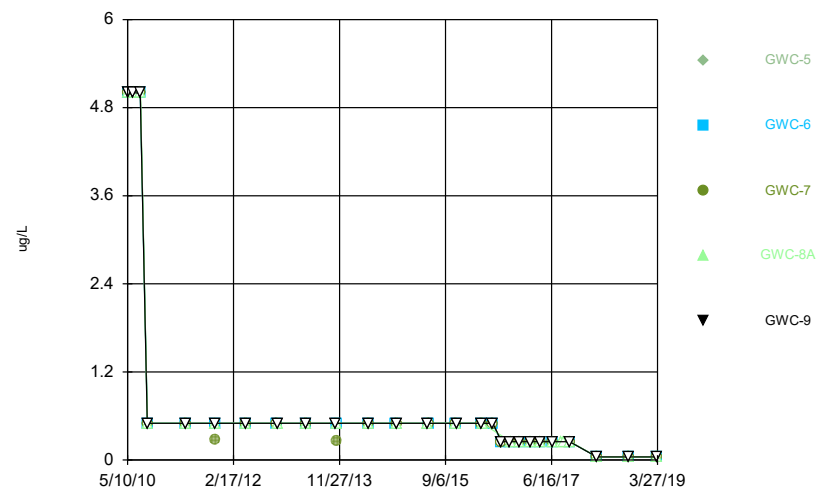
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



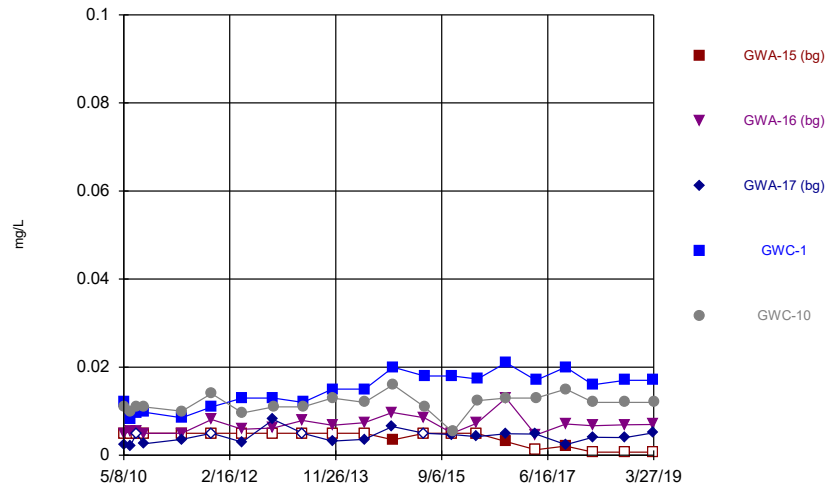
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



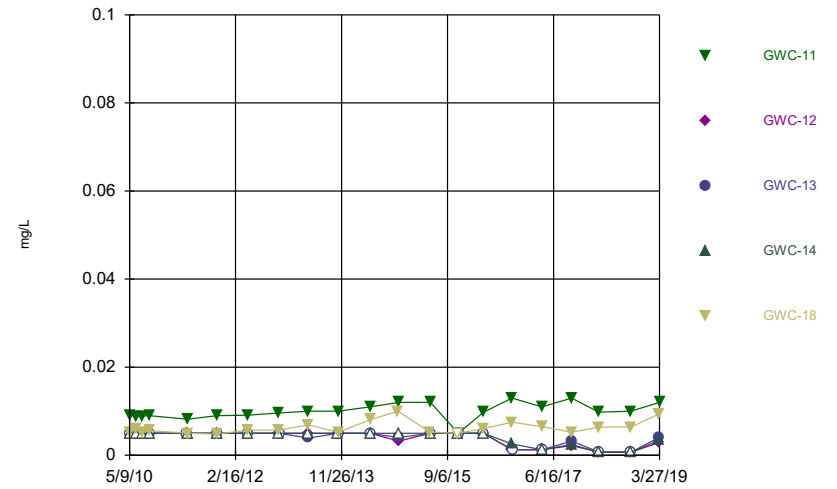
Constituent: Thallium, Total Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



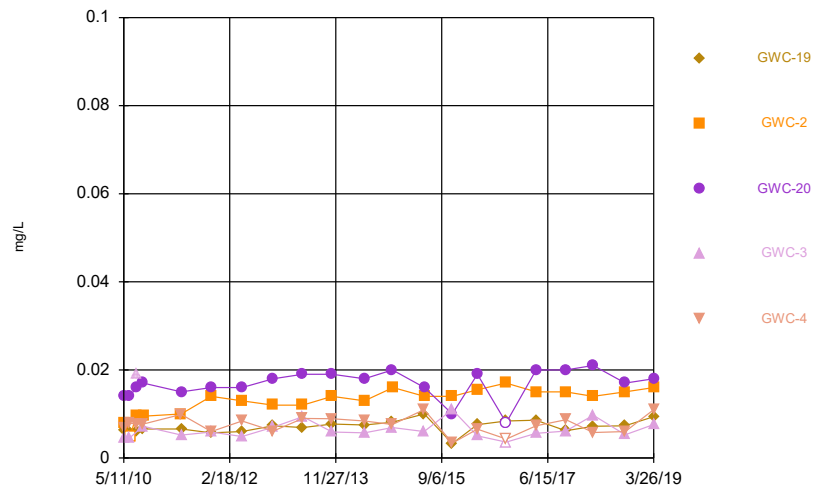
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



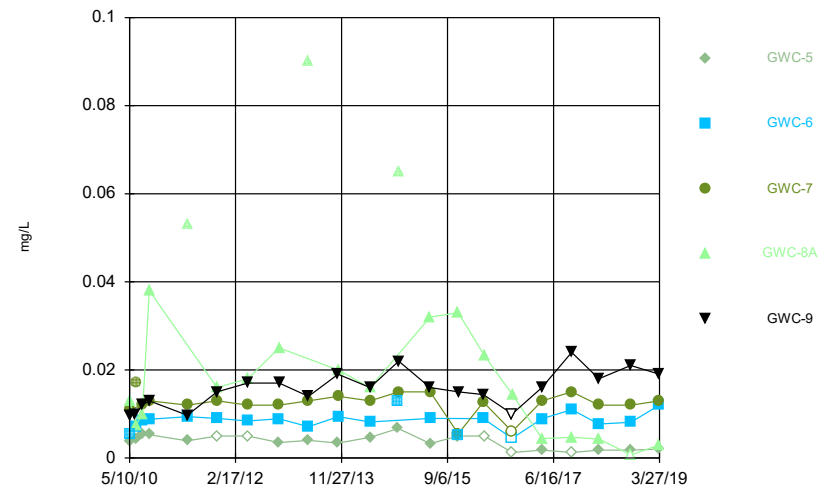
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



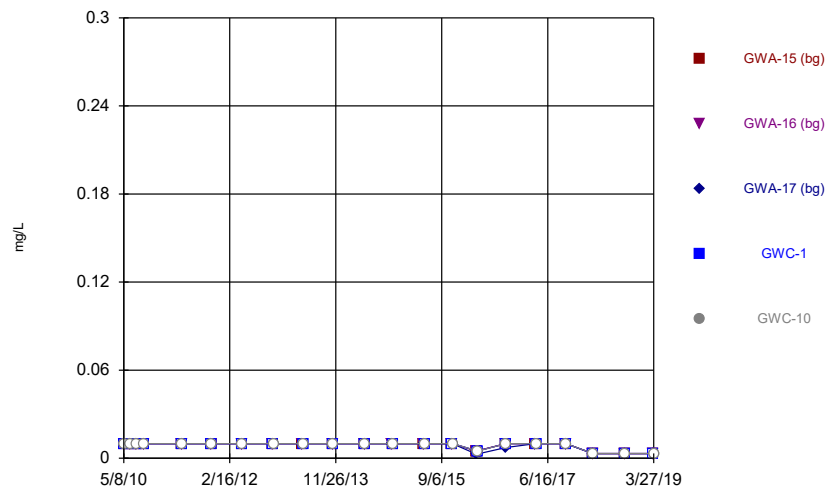
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



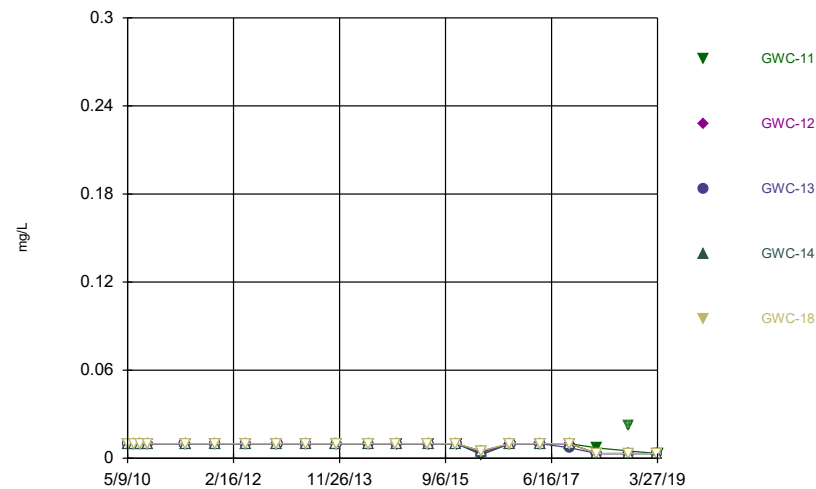
Constituent: Vanadium Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



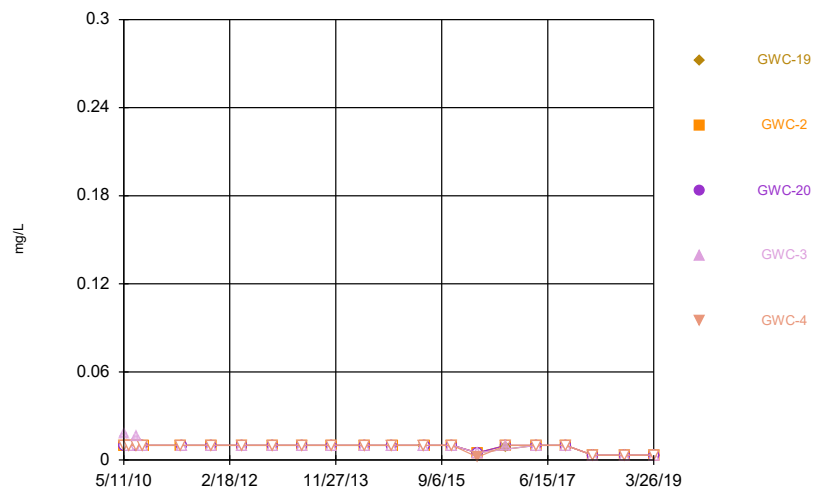
Constituent: Zinc Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



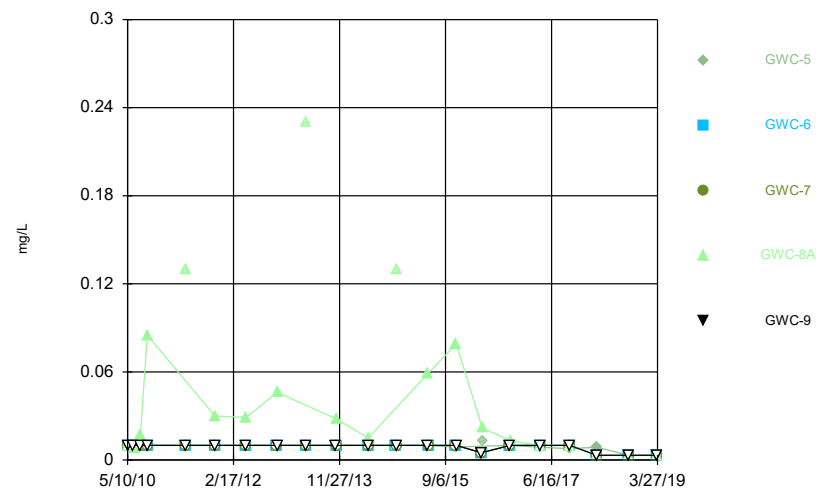
Constituent: Zinc Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



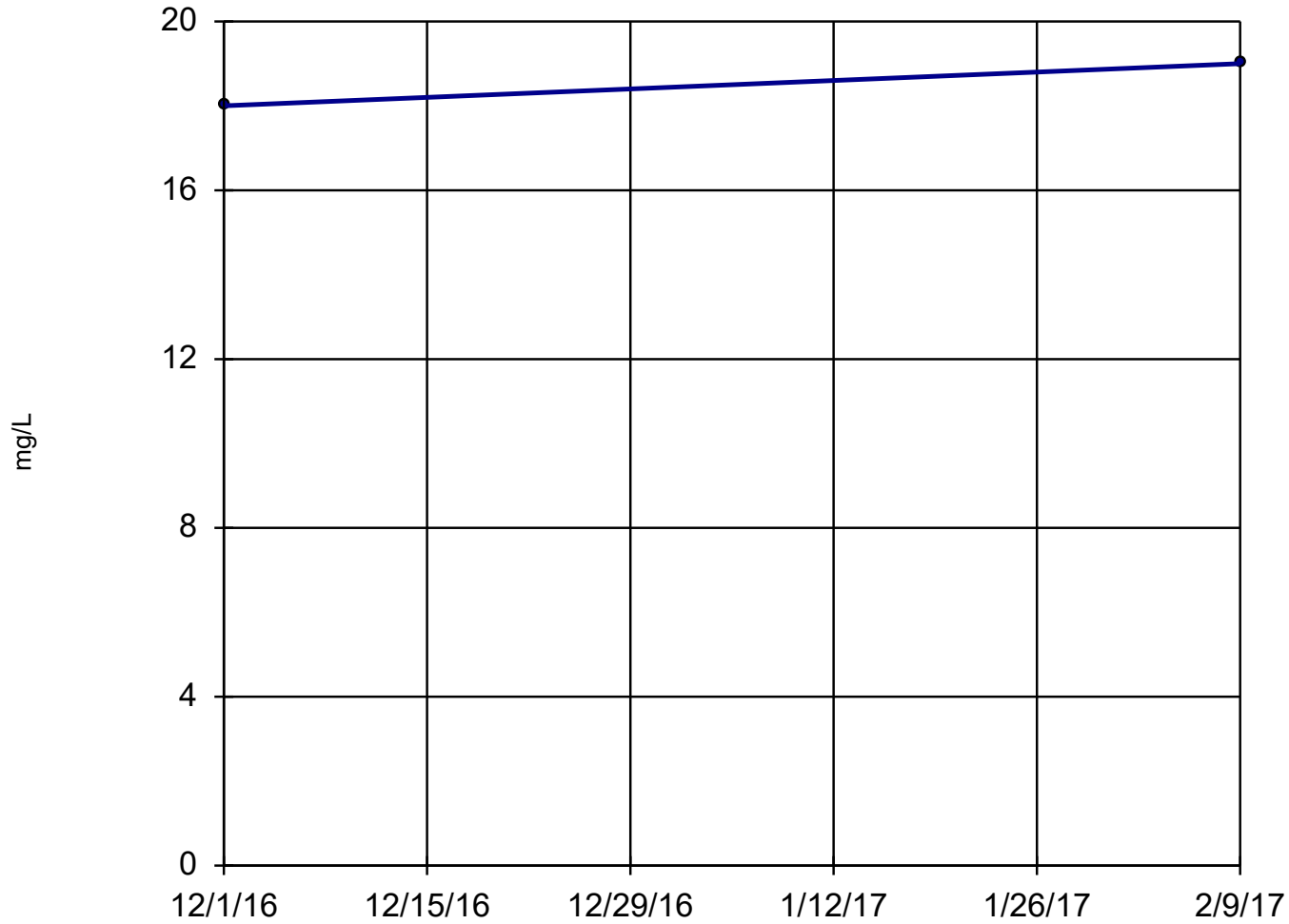
Constituent: Zinc Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Time Series



Constituent: Zinc Analysis Run 7/25/2019 1:36 PM View: Cell 1 State Landfill
 Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator GWC-8A

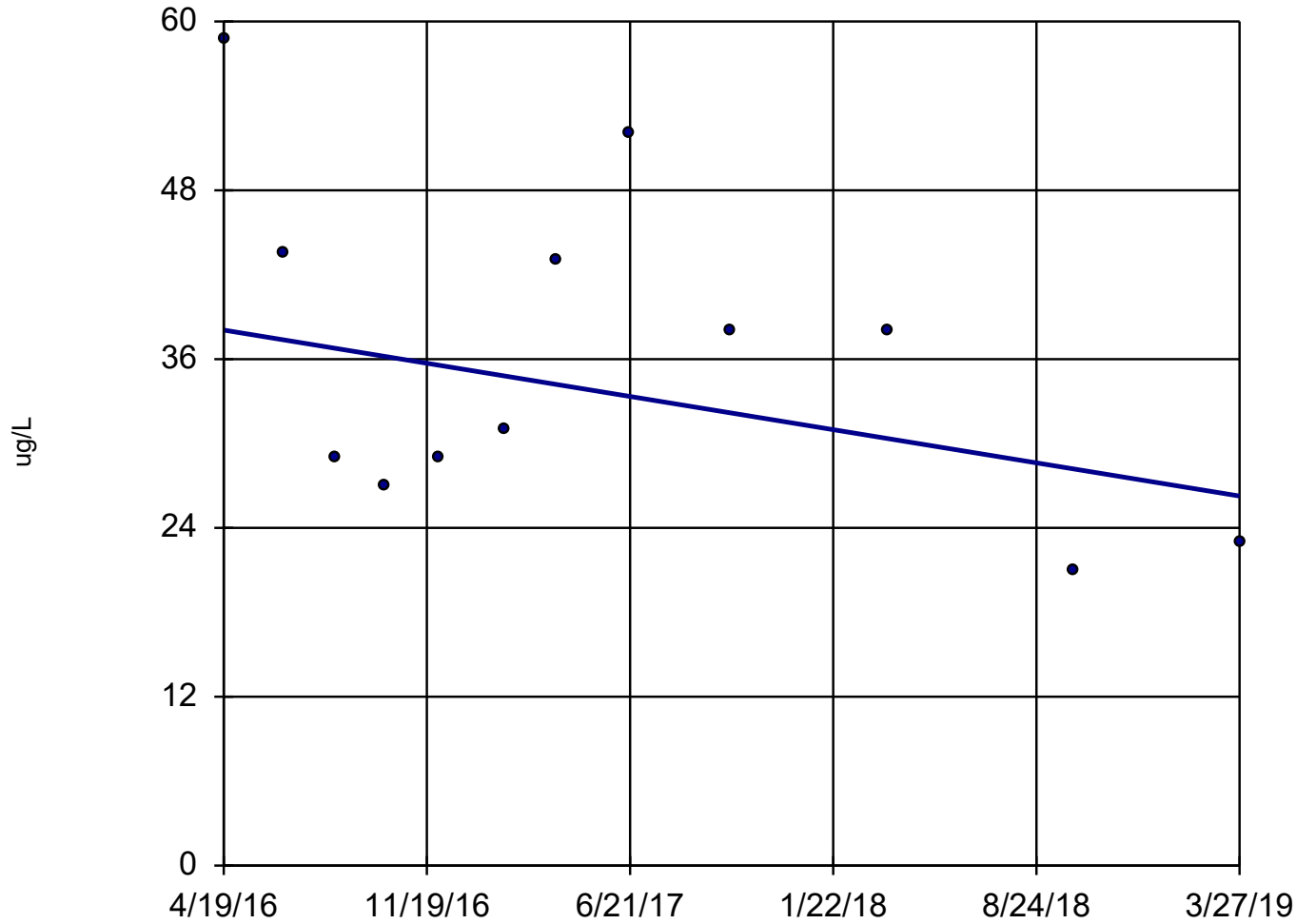


n = 2
Slope = 5.214
units per year.
Minimum n for
Mann-Kendall
is 4.

Constituent: Calcium, Dissolved Analysis Run 7/25/2019 9:25 PM View: Cell 1 Trend
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator

GWC-5



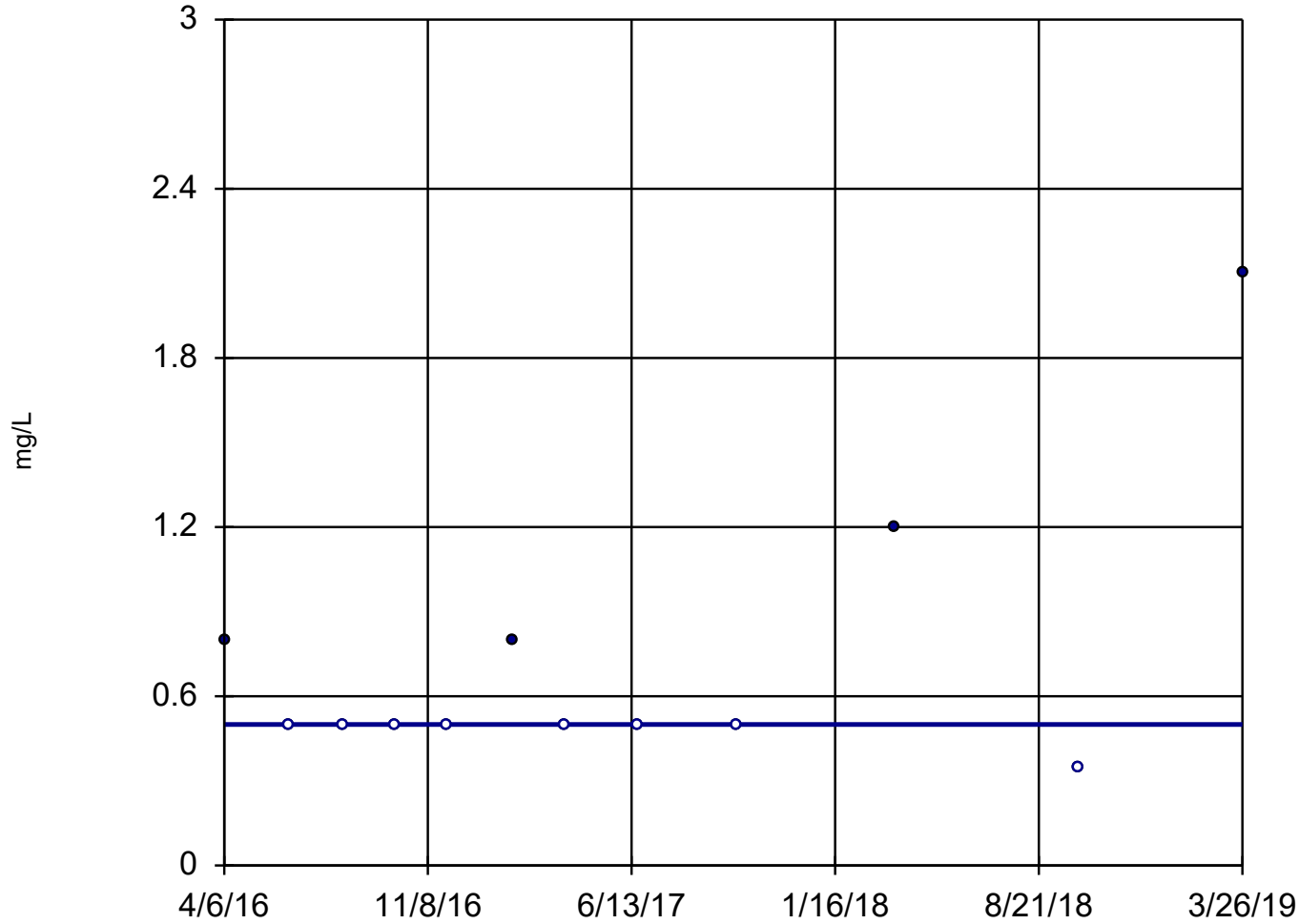
n = 12
Slope = -4.017
units per year.
Mann-Kendall
statistic = -18
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium, Total Analysis Run 8/26/2019 1:02 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator

GWA-15 (bg)



n = 12

Slope = 0
units per year.

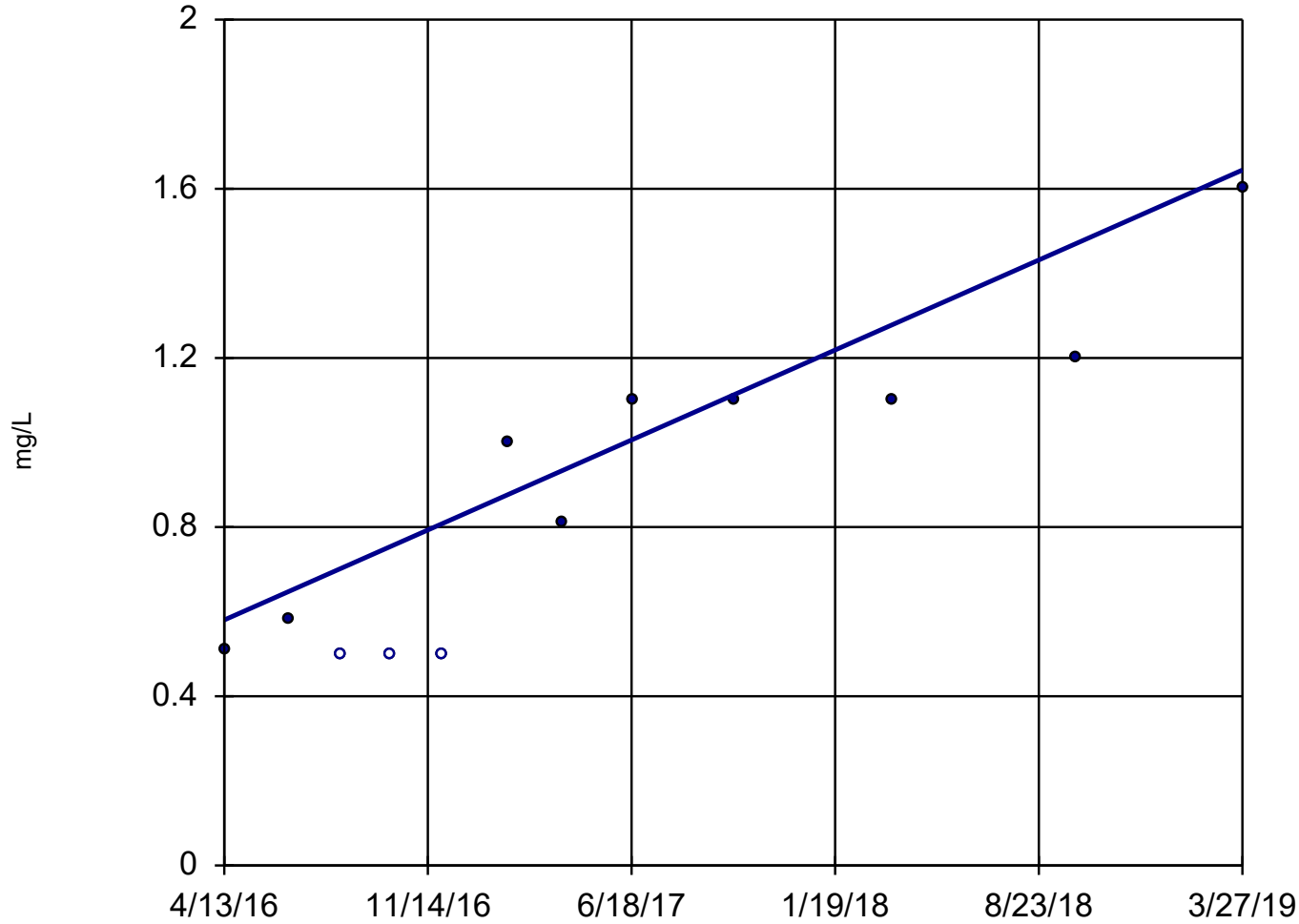
Mann-Kendall
statistic = 5
critical = 38

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

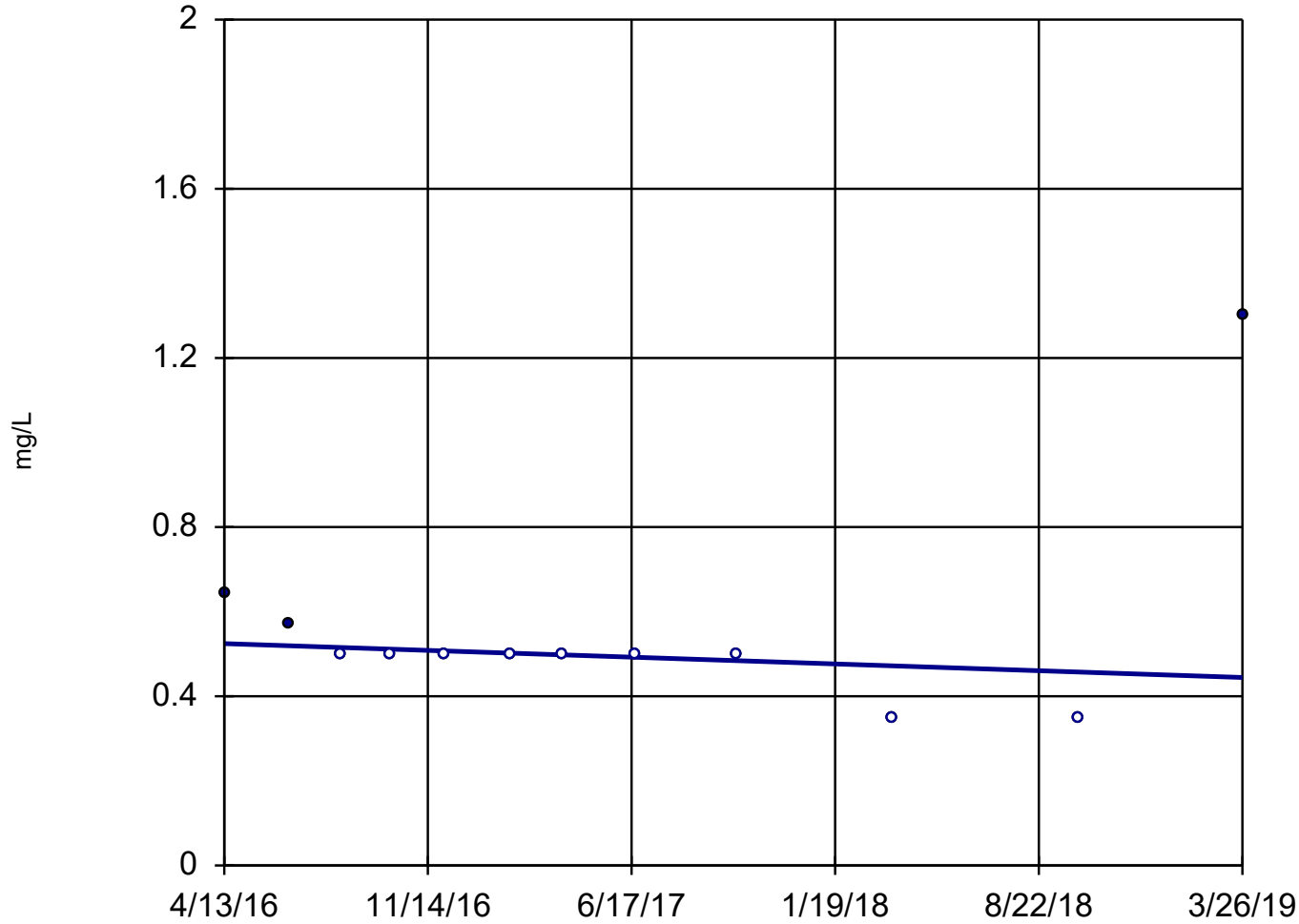
Sen's Slope Estimator GWC-10



n = 12
Slope = 0.3602
units per year.
Mann-Kendall
statistic = 46
critical = 38
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend
Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator GWC-13



n = 12

Slope = -0.02707
units per year.

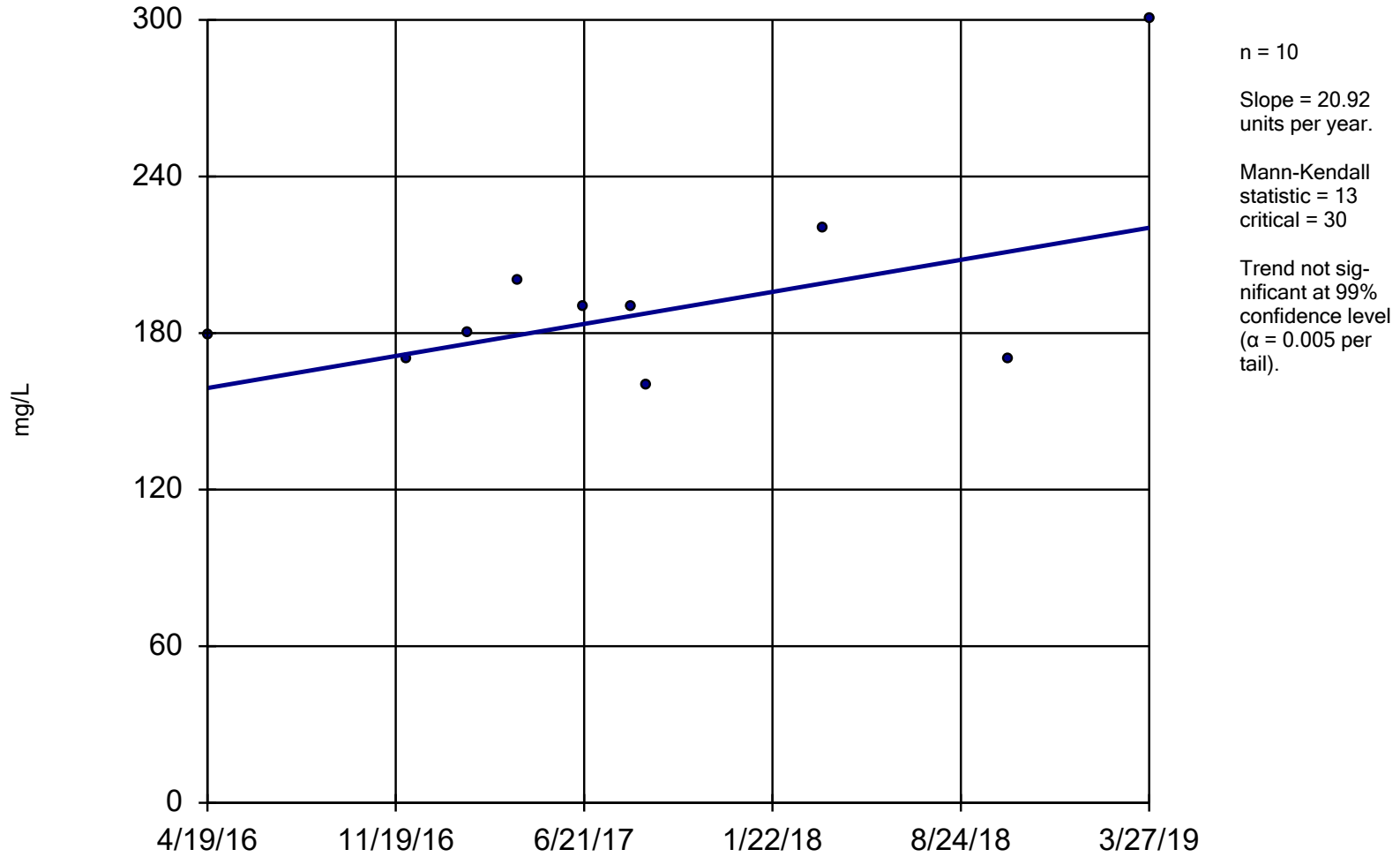
Mann-Kendall
statistic = -22
critical = -38

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 7/25/2019 9:26 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator GWC-8A

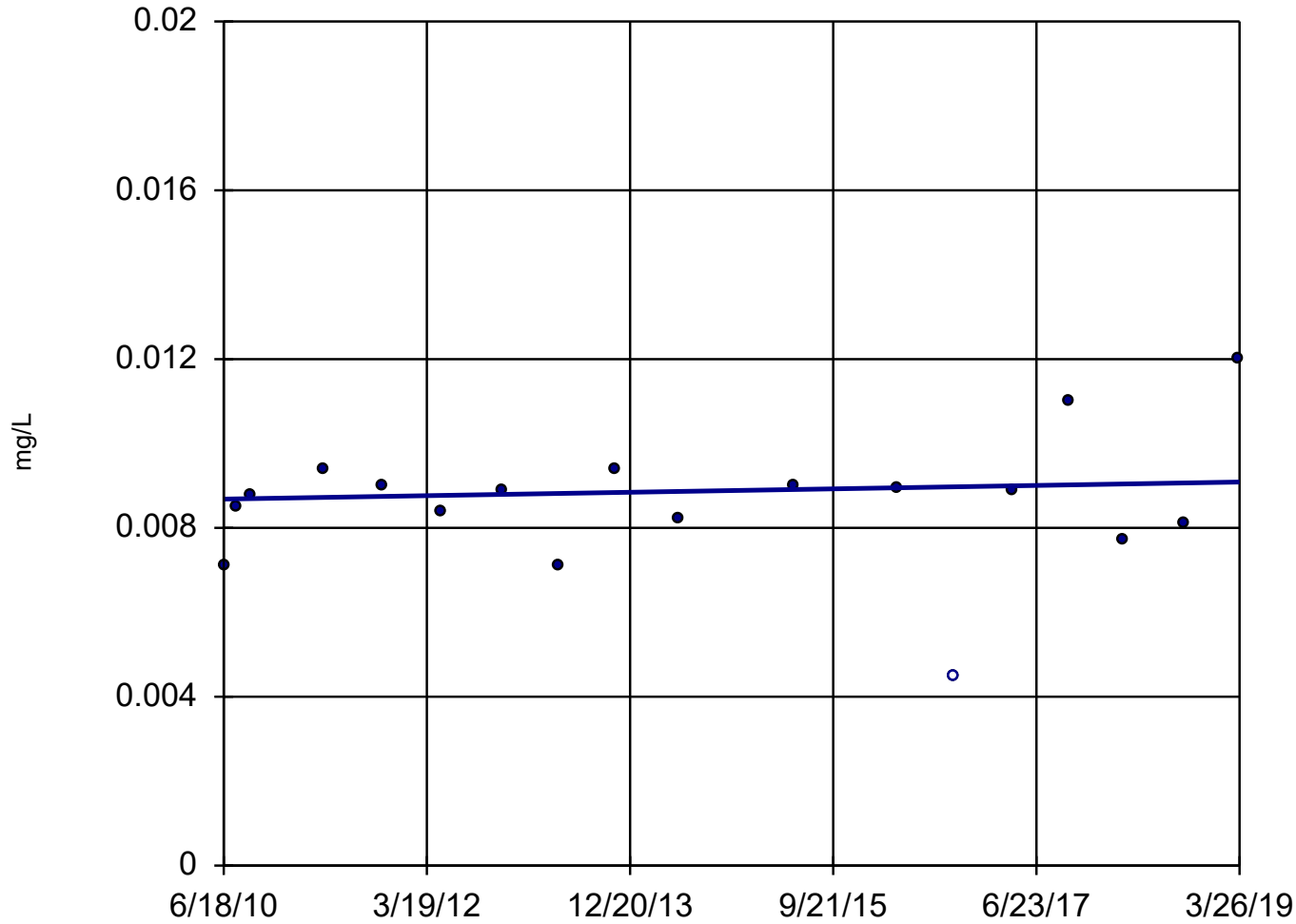


Constituent: Total Dissolved Solids Analysis Run 7/25/2019 9:25 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

Sen's Slope Estimator

GWC-6



n = 18

Slope = 0.00004603
units per year.

Mann-Kendall
statistic = 15
critical = 68

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Vanadium Analysis Run 7/25/2019 2:47 PM View: Cell 1 Trend

Scherer Client: Golder Associates Data: Scherer Cell 1 LF

STATISTICAL ANALYSES REPORTS

PAC ASH CELL

Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	GWA-45	0.0563	n/a	3/27/2019	0.057	Yes	24	0	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-52	0.01517	n/a	3/28/2019	0.019	Yes	24	4.167	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-29	3.181	n/a	3/28/2019	3.2	Yes	11	9.091	None	x^2	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-51	0.5	n/a	3/27/2019	2.7	Yes	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-52	25.5	n/a	3/28/2019	29	Yes	10	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-46	0.005981	n/a	3/27/2019	0.0072	Yes	18	22.22	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-48	0.02102	n/a	3/27/2019	0.022	Yes	18	5.556	None	x^2	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-29	0.006698	n/a	3/28/2019	0.0079	Yes	19	10.53	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-50	0.004554	n/a	3/28/2019	0.0053	Yes	19	47.37	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-51	0.006449	n/a	3/27/2019	0.0087	Yes	19	26.32	Kapla...	No	0.000...	Param Intra 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	GWA-21	0.0291	n/a	3/27/2019	0.024	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-22	0.03036	n/a	3/27/2019	0.022	No	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-45	0.0563	n/a	3/27/2019	0.057	Yes	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-46	0.02155	n/a	3/27/2019	0.021	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-47	0.04859	n/a	3/27/2019	0.026	No	23	0	None	x^(1/3)	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWA-48	0.031	n/a	3/27/2019	0.013	No	22	0	n/a	n/a	0.003707	NP Intra (normality) ...
Barium, Total (mg/L)	GWA-49	0.02212	n/a	3/27/2019	0.019	No	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-29	0.01822	n/a	3/28/2019	0.017	No	24	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-50	0.0141	n/a	3/28/2019	0.012	No	23	0	None	No	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-51	0.013	n/a	3/27/2019	0.011	No	24	4.167	n/a	n/a	0.003124	NP Intra (normality) ...
Barium, Total (mg/L)	GWC-52	0.0143	n/a	3/28/2019	0.014	No	23	0	None	x^2	0.000...	Param Intra 1 of 2
Barium, Total (mg/L)	GWC-53	0.1153	n/a	3/28/2019	0.045	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Beryllium, Total (mg/L)	GWA-21	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-22	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-45	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-46	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-47	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-48	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWA-49	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-29	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-50	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-51	0.0015	n/a	3/27/2019	0.00017ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-52	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Beryllium, Total (mg/L)	GWC-53	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-21	0.05	n/a	3/27/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-22	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-45	1.188	n/a	3/27/2019	0.74	No	11	0	None	No	0.000...	Param Intra 1 of 2
Boron (mg/L)	GWA-46	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-47	0.05	n/a	3/27/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-48	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWA-49	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-29	0.05	n/a	3/28/2019	0.0105ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-50	0.021	n/a	3/28/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-51	0.021	n/a	3/27/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-52	0.021	n/a	3/28/2019	0.0105ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Boron (mg/L)	GWC-53	1.147	n/a	3/28/2019	0.97	No	11	0	None	No	0.000...	Param Intra 1 of 2
Cadmium, Total (mg/L)	GWA-21	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-22	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-45	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-46	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-47	0.00034	n/a	3/27/2019	0.00017ND	No	23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-48	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWA-49	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-29	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-50	0.0025	n/a	3/28/2019	0.00017ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-51	0.00034	n/a	3/27/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-52	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cadmium, Total (mg/L)	GWC-53	0.00034	n/a	3/28/2019	0.00017ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Calcium (mg/L)	GWA-21	11.9	n/a	3/27/2019	9.5	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-22	9.74	n/a	3/27/2019	7.1	No	11	0	None	No	0.000...	Param Intra 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	GWA-45	47.27	n/a	3/27/2019	39	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-46	7.16	n/a	3/27/2019	6.1	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-47	11.88	n/a	3/27/2019	11	No	11	0	None	x^4	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-48	14.4	n/a	3/27/2019	13	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWA-49	15.47	n/a	3/27/2019	15	No	10	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-29	11.28	n/a	3/28/2019	11	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-50	8.2	n/a	3/28/2019	7.2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-51	7.921	n/a	3/27/2019	7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-52	16.36	n/a	3/28/2019	15	No	9	0	None	No	0.000...	Param Intra 1 of 2
Calcium (mg/L)	GWC-53	21.56	n/a	3/28/2019	18	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-21	4.485	n/a	3/27/2019	2.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-22	5.74	n/a	3/27/2019	2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-45	10	n/a	3/27/2019	9.6	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
Chloride (mg/L)	GWA-46	4.119	n/a	3/27/2019	3.7	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-47	1.777	n/a	3/27/2019	1.2	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-48	2.015	n/a	3/27/2019	1.5	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWA-49	2.462	n/a	3/27/2019	1.9	No	11	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-29	4.326	n/a	3/28/2019	2.8	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-50	2.1	n/a	3/28/2019	1.8	No	11	0	n/a	n/a	0.01276	NP Intra (normality) ...
Chloride (mg/L)	GWC-51	7.124	n/a	3/27/2019	7	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-52	8.716	n/a	3/28/2019	7.5	No	10	0	None	No	0.000...	Param Intra 1 of 2
Chloride (mg/L)	GWC-53	12	n/a	3/28/2019	12	No	10	0	n/a	n/a	0.01476	NP Intra (normality) ...
Chromium, Total (mg/L)	GWA-21	0.00879	n/a	3/27/2019	0.003	No	24	16.67	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-22	0.01121	n/a	3/27/2019	0.0078	No	23	4.348	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-45	0.0011	n/a	3/27/2019	0.00055ND	No	22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Chromium, Total (mg/L)	GWA-46	0.007978	n/a	3/27/2019	0.0048	No	24	4.167	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-47	0.045	n/a	3/27/2019	0.0081	No	24	8.333	n/a	n/a	0.003124	NP Intra (normality) ...
Chromium, Total (mg/L)	GWA-48	0.02309	n/a	3/27/2019	0.0051	No	24	8.333	None	ln(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWA-49	0.009341	n/a	3/27/2019	0.0056	No	24	4.167	None	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-29	0.004371	n/a	3/28/2019	0.0012	No	23	39.13	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-50	0.006294	n/a	3/28/2019	0.0043	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-51	0.005674	n/a	3/27/2019	0.0044	No	24	12.5	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-52	0.01517	n/a	3/28/2019	0.019	Yes	24	4.167	None	No	0.000...	Param Intra 1 of 2
Chromium, Total (mg/L)	GWC-53	0.00407	n/a	3/28/2019	0.00055ND	No	23	39.13	Kapla...	No	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-21	0.005	n/a	3/27/2019	0.0002ND	No	24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-22	0.005	n/a	3/27/2019	0.0002ND	No	23	78.26	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-45	0.01014	n/a	3/27/2019	0.00083	No	24	29.17	Kapla...	sqrt(x)	0.000...	Param Intra 1 of 2
Cobalt, Total (mg/L)	GWA-46	0.005	n/a	3/27/2019	0.0002ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-47	0.005	n/a	3/27/2019	0.0002ND	No	22	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-48	0.005	n/a	3/27/2019	0.0002ND	No	23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWA-49	0.005	n/a	3/27/2019	0.0002ND	No	24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-29	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-50	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-51	0.0004	n/a	3/27/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-52	0.0004	n/a	3/28/2019	0.0002ND	No	24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Cobalt, Total (mg/L)	GWC-53	0.01651	n/a	3/28/2019	0.011	No	24	8.333	None	No	0.000...	Param Intra 1 of 2
Fluoride (mg/L)	GWA-21	0.15	n/a	3/27/2019	0.035	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-22	0.082	n/a	3/27/2019	0.036	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-45	0.15	n/a	3/27/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-46	0.15	n/a	3/27/2019	0.033	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-47	0.082	n/a	3/27/2019	0.041	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-48	0.15	n/a	3/27/2019	0.04	No	11	81.82	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWA-49	0.15	n/a	3/27/2019	0.037	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-29	0.15	n/a	3/28/2019	0.033	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-50	0.15	n/a	3/28/2019	0.042	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-51	0.15	n/a	3/27/2019	0.013ND	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-52	0.082	n/a	3/28/2019	0.039	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-53	0.082	n/a	3/28/2019	0.013ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-21	0.0044	n/a	3/27/2019	0.000175NDNo		24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-22	0.0048	n/a	3/27/2019	0.000175NDNo		24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.000175NDNo		24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-46	0.0037	n/a	3/27/2019	0.000175NDNo		24	79.17	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-47	0.0062	n/a	3/27/2019	0.000175NDNo		24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-48	0.0064	n/a	3/27/2019	0.000175NDNo		24	66.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWA-49	0.0062	n/a	3/27/2019	0.000175NDNo		24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-29	0.0038	n/a	3/28/2019	0.000175NDNo		24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-50	0.0043	n/a	3/28/2019	0.000175NDNo		24	75	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-51	0.0035	n/a	3/27/2019	0.000175NDNo		24	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-52	0.006	n/a	3/28/2019	0.000175NDNo		24	62.5	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Lead, Total (mg/L)	GWC-53	0.00035	n/a	3/28/2019	0.000175NDNo		23	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-21	0.00025	n/a	3/27/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-22	0.00025	n/a	3/27/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-45	0.00025	n/a	3/27/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-46	0.00025	n/a	3/27/2019	0.000035NDNo		24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-47	0.00025	n/a	3/27/2019	0.000035NDNo		24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-48	0.00025	n/a	3/27/2019	0.000035NDNo		24	91.67	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWA-49	0.00025	n/a	3/27/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-29	0.00025	n/a	3/28/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-50	0.00025	n/a	3/28/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-51	0.00007	n/a	3/27/2019	0.000035NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-52	0.00025	n/a	3/28/2019	0.000035NDNo		24	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Mercury, Total (mg/L)	GWC-53	0.00007	n/a	3/28/2019	0.000035NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-21	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-22	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-45	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-46	0.0018	n/a	3/27/2019	0.0009ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-47	0.022	n/a	3/27/2019	0.0009ND	No	19	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-48	0.016	n/a	3/27/2019	0.0009ND	No	19	52.63	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWA-49	0.0018	n/a	3/27/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-29	0.0042	n/a	3/28/2019	0.0038	No	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-50	0.0018	n/a	3/28/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-51	0.005	n/a	3/27/2019	0.0024	No	19	84.21	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-52	0.0018	n/a	3/28/2019	0.0009ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Nickel, Total (mg/L)	GWC-53	0.008773	n/a	3/28/2019	0.0069	No	18	5.556	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-21	5.99	5.558	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-22	6.33	5.447	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-45	6.504	5.702	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-46	6.83	5.71	n/a	1 future	n/a	12	0	n/a	n/a	0.02155	NP Intra (normality) ...
pH (S.U.)	GWA-47	6.564	6.291	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWA-48	7.007	6.483	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2

Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWA-49	7.115	6.577	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-29	5.938	5.682	n/a	1 future	n/a	12	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-50	6.016	5.647	n/a	1 future	n/a	13	0	None	No	0.000...	Param Intra 1 of 2
pH (S.U.)	GWC-51	8.36	5.76	n/a	1 future	n/a	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-52	7.63	6.53	n/a	1 future	n/a	14	0	n/a	n/a	0.01722	NP Intra (normality) ...
pH (S.U.)	GWC-53	7.725	5.48	n/a	1 future	n/a	13	0	n/a	n/a	0.01938	NP Intra (normality) ...
Selenium, Total (mg/L)	GWA-21	0.00024	n/a	3/27/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-22	0.00024	n/a	3/27/2019	0.000355NDNo		21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.000355NDNo		20	95	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-46	0.00024	n/a	3/27/2019	0.000355NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-47	0.00024	n/a	3/27/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-48	0.00024	n/a	3/27/2019	0.000355NDNo		21	100	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWA-49	0.005	n/a	3/27/2019	0.000355NDNo		23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-29	0.01	n/a	3/28/2019	0.000355NDNo		23	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-50	0.00024	n/a	3/28/2019	0.000355NDNo		22	100	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-51	0.00024	n/a	3/27/2019	0.000355NDNo		24	100	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-52	0.005	n/a	3/28/2019	0.000355NDNo		21	85.71	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Selenium, Total (mg/L)	GWC-53	0.01	n/a	3/28/2019	0.000355NDNo		23	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-21	3.106	n/a	3/27/2019	0.81	No	11	9.091	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-22	0.7	n/a	3/27/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-45	185.4	n/a	3/27/2019	140	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-46	0.594	n/a	3/27/2019	0.52	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-47	0.7	n/a	3/27/2019	0.19ND	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWA-48	1.665	n/a	3/27/2019	1.6	No	11	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWA-49	0.507	n/a	3/27/2019	0.56	No	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-29	3.181	n/a	3/28/2019	3.2	Yes	11	9.091	None	x^2	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-50	0.7	n/a	3/28/2019	0.38	No	11	100	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-51	0.5	n/a	3/27/2019	2.7	Yes	11	90.91	n/a	n/a	0.01276	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	GWC-52	25.5	n/a	3/28/2019	29	Yes	10	0	None	No	0.000...	Param Intra 1 of 2
Sulfate (mg/L)	GWC-53	185.5	n/a	3/28/2019	170	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-21	112.9	n/a	3/27/2019	98	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-22	119.3	n/a	3/27/2019	76	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-45	343.8	n/a	3/27/2019	290	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-46	90.32	n/a	3/27/2019	66	No	11	9.091	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-47	119	n/a	3/27/2019	94	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-48	123.6	n/a	3/27/2019	100	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWA-49	120.2	n/a	3/27/2019	120	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-29	142.7	n/a	3/28/2019	88	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-50	134.5	n/a	3/28/2019	65	No	11	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-51	105.1	n/a	3/27/2019	76	No	10	0	None	No	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-52	190.6	n/a	3/28/2019	140	No	11	0	None	sqrt(x)	0.000...	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	GWC-53	334.1	n/a	3/28/2019	280	No	11	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-21	0.005	n/a	n/a	1 future	n/a	19	68.42	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-22	0.0052	n/a	n/a	1 future	n/a	19	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-45	0.005	n/a	3/27/2019	0.0023	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Vanadium, Total (mg/L)	GWA-46	0.005981	n/a	3/27/2019	0.0072	Yes	18	22.22	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-47	0.03362	n/a	3/27/2019	0.012	No	19	10.53	None	sqrt(x)	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-48	0.02102	n/a	3/27/2019	0.022	Yes	18	5.556	None	x^2	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWA-49	0.02248	n/a	3/27/2019	0.021	No	19	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-29	0.006698	n/a	3/28/2019	0.0079	Yes	19	10.53	None	No	0.000...	Param Intra 1 of 2

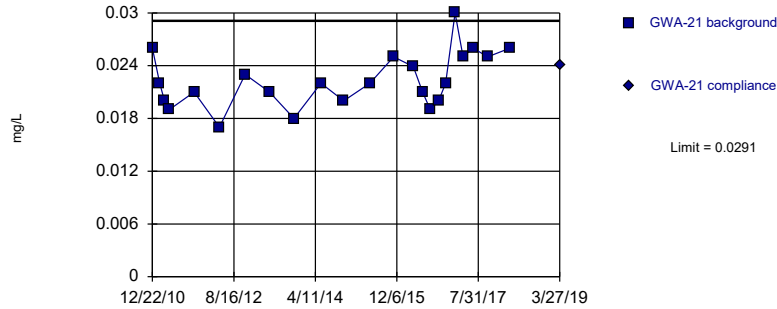
Prediction Limit

Scherer Client: Golder Associates Data: Scherer PAC CCR Printed 8/8/2019, 12:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Vanadium, Total (mg/L)	GWC-50	0.004554	n/a	3/28/2019	0.0053	Yes	19	47.37	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-51	0.006449	n/a	3/27/2019	0.0087	Yes	19	26.32	Kapla...	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-52	0.01414	n/a	3/28/2019	0.01	No	17	0	None	No	0.000...	Param Intra 1 of 2
Vanadium, Total (mg/L)	GWC-53	0.0065	n/a	3/28/2019	0.0041	No	18	83.33	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-21	0.0065	n/a	3/27/2019	0.00325ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-22	0.0065	n/a	3/27/2019	0.00325ND	No	17	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-45	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-46	0.01	n/a	3/27/2019	0.00325ND	No	18	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-47	0.01	n/a	3/27/2019	0.00325ND	No	17	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-48	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWA-49	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-29	0.0065	n/a	3/28/2019	0.00325ND	No	19	100	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-50	0.0065	n/a	3/28/2019	0.00325ND	No	18	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-51	0.01	n/a	3/27/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-52	0.01	n/a	3/28/2019	0.00325ND	No	19	94.74	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Zinc, Total (mg/L)	GWC-53	0.01988	n/a	3/28/2019	0.013	No	18	0	None	No	0.000...	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

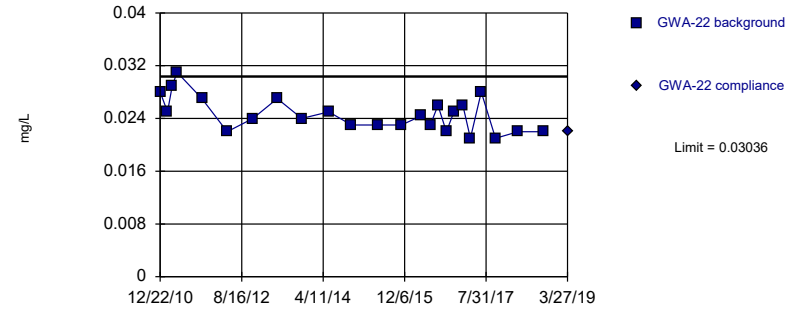


Background Data Summary: Mean=0.02234, Std. Dev.=0.003125, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9634, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

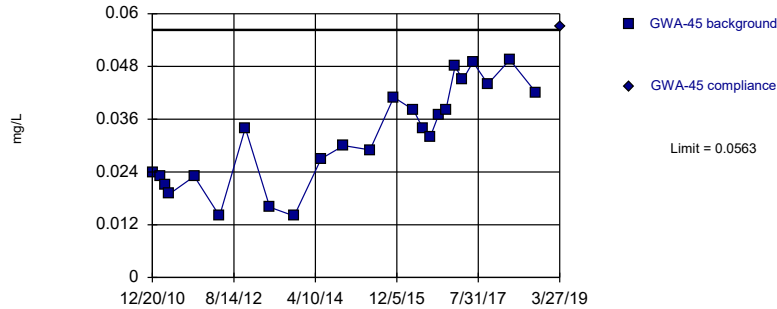


Background Data Summary: Mean=0.02464, Std. Dev.=0.002664, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

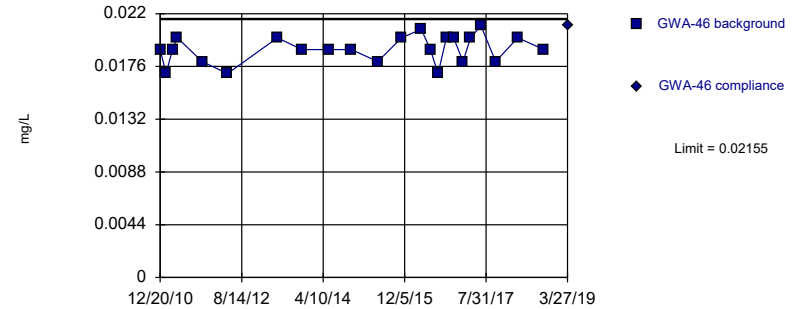


Background Data Summary: Mean=0.03215, Std. Dev.=0.01125, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9526, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Barium, Total Analysis Run 8/8/2019 12:18 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

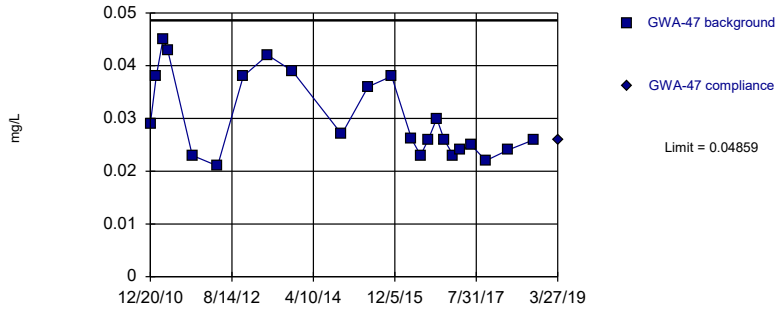
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01903, Std. Dev.=0.001165, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9149, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

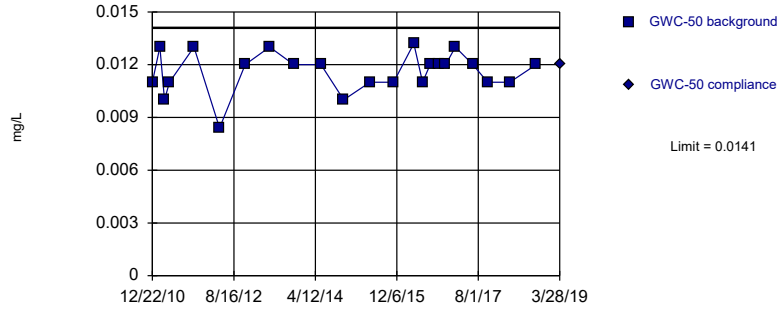
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Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Parametric



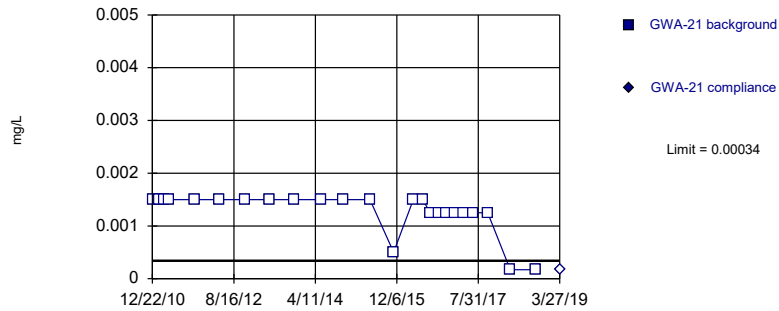
Within Limit

Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

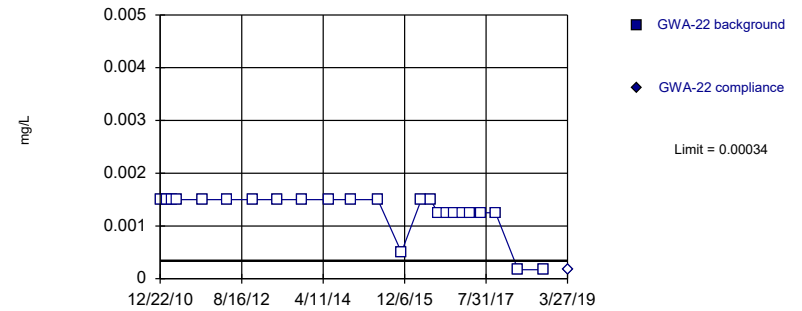


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

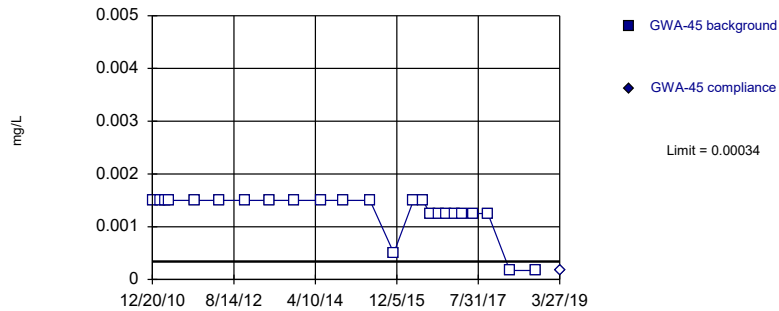


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

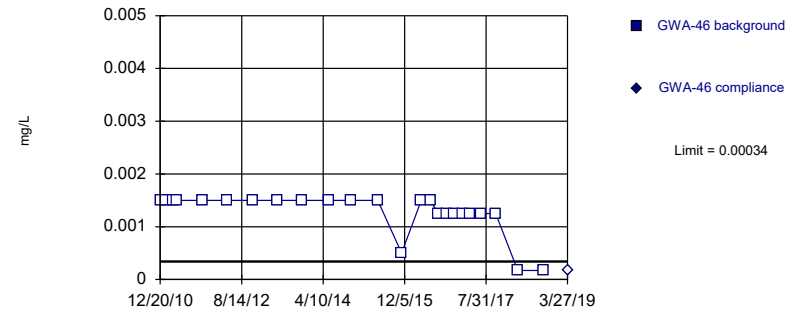


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

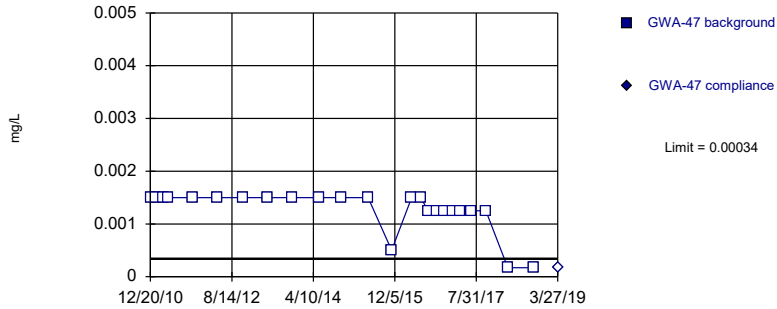


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

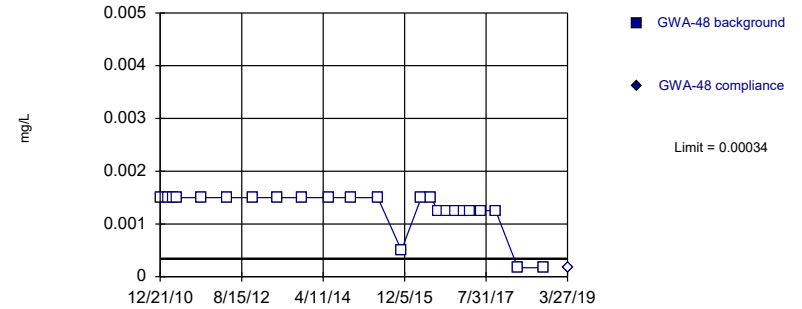


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

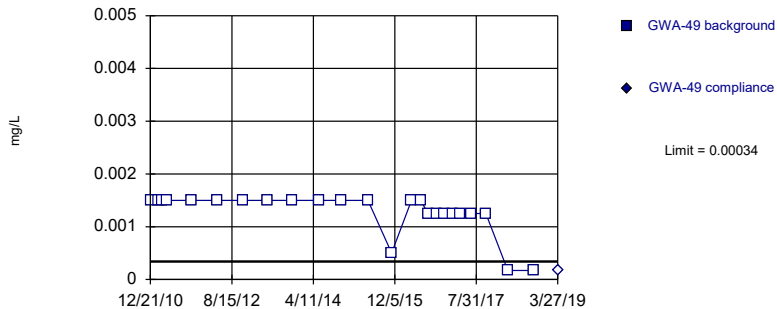


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

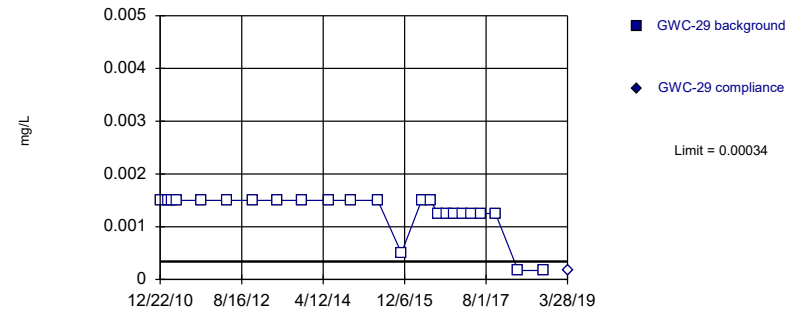


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

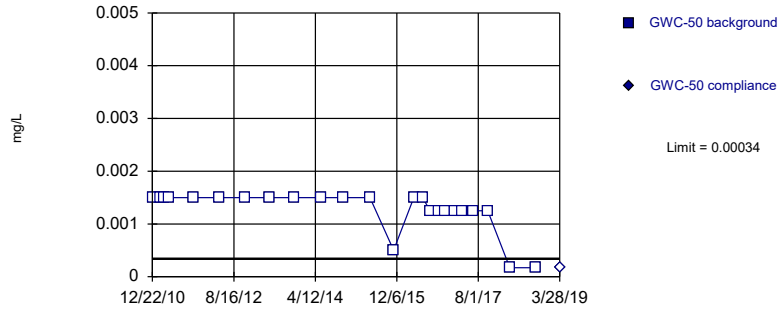


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

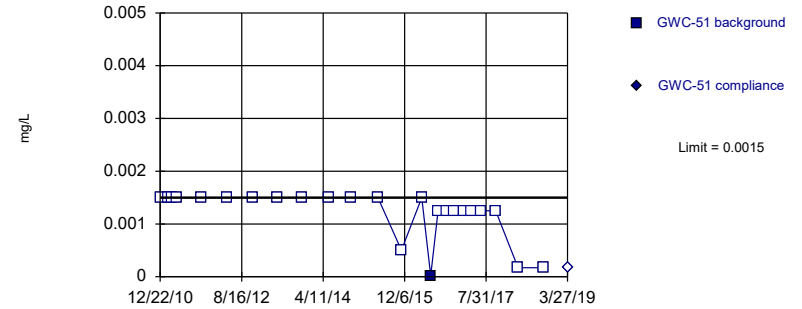


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

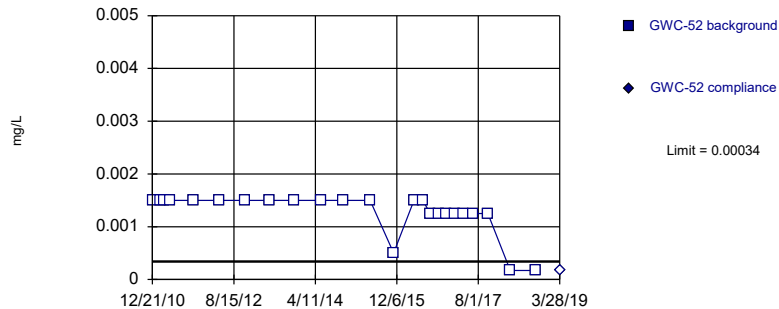


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

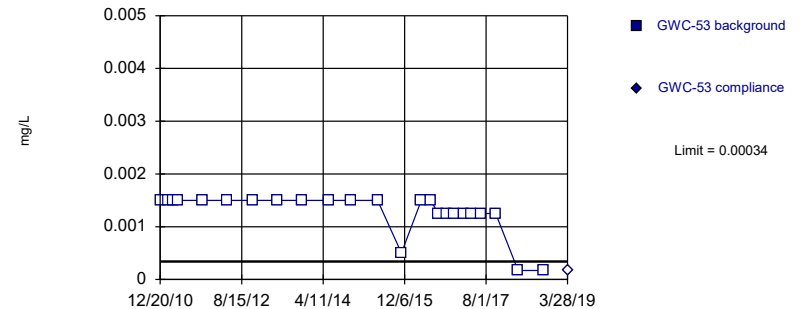


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

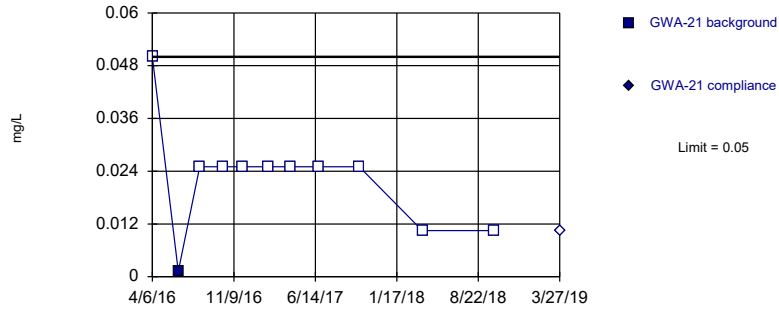
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Beryllium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

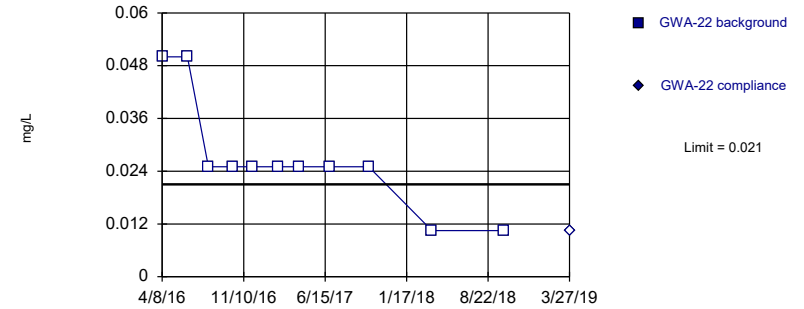
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

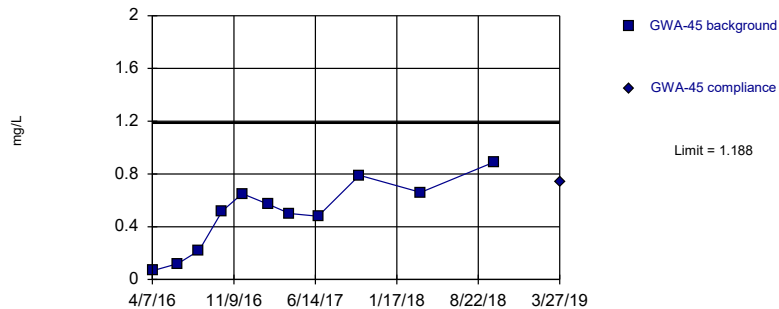
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

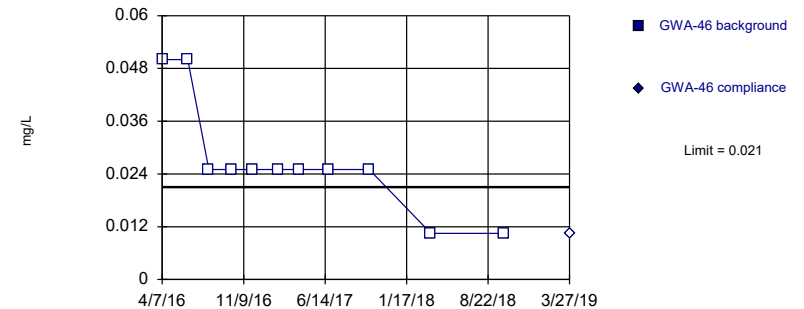
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.4969, Std. Dev.=0.2648, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Non-parametric

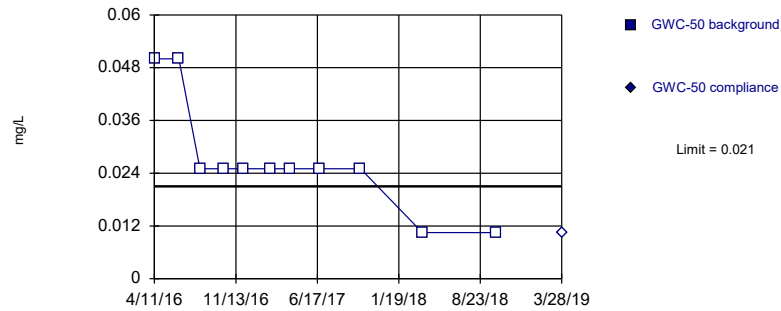


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

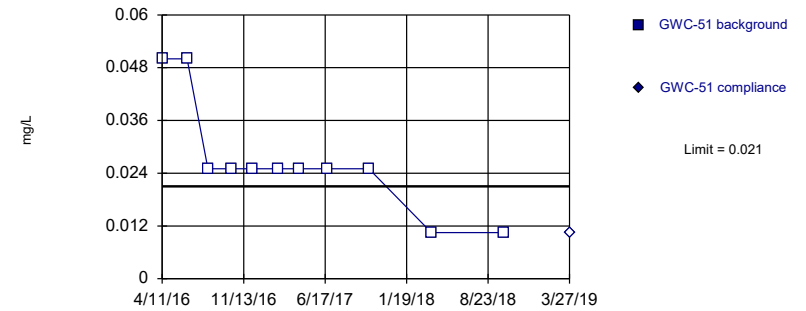


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

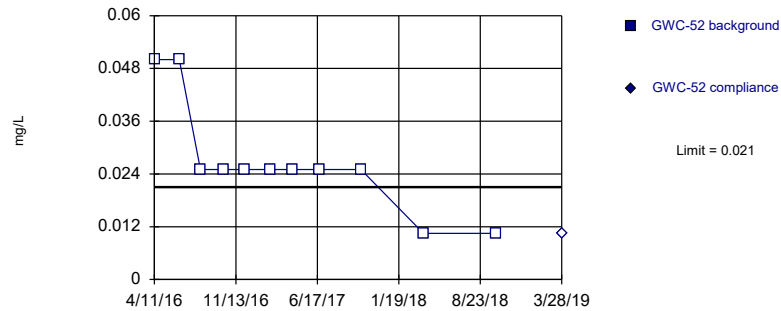


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

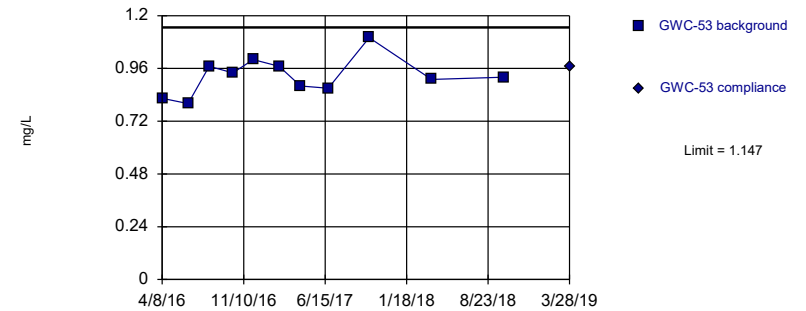


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

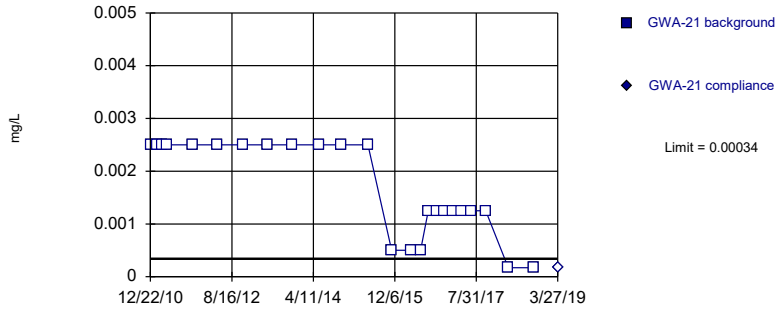


Background Data Summary: Mean=0.9258, Std. Dev.=0.08464, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Boron Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

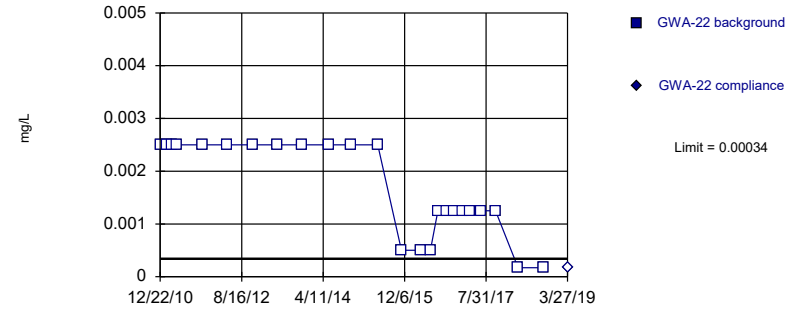


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

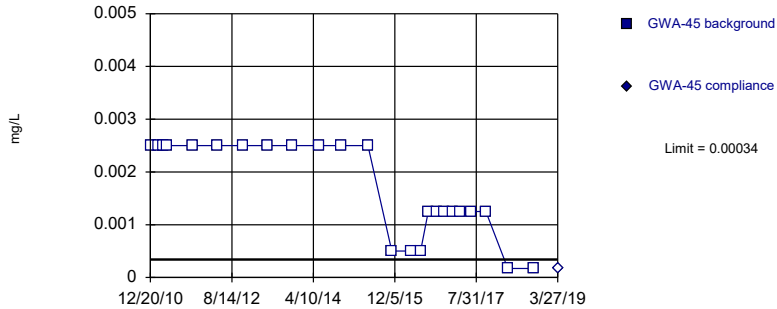


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

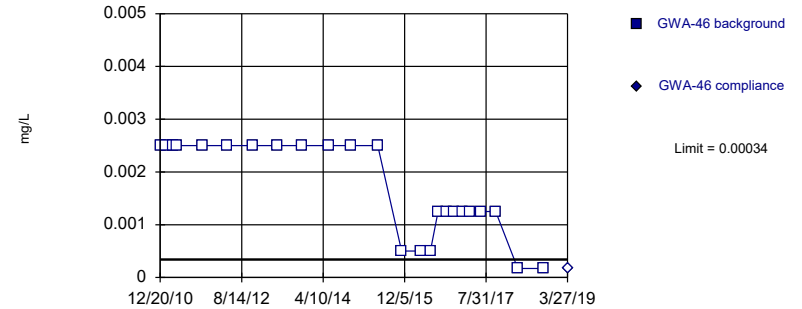


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

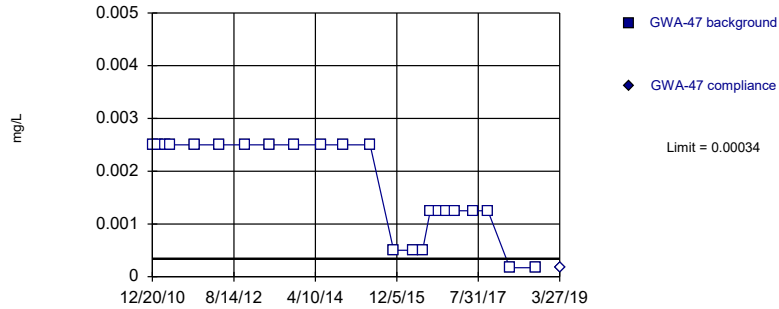


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

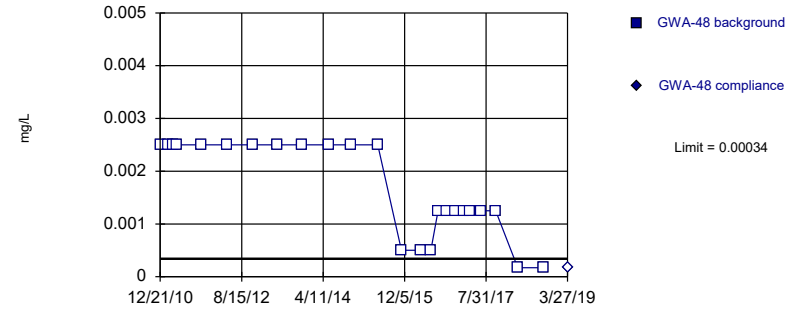


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

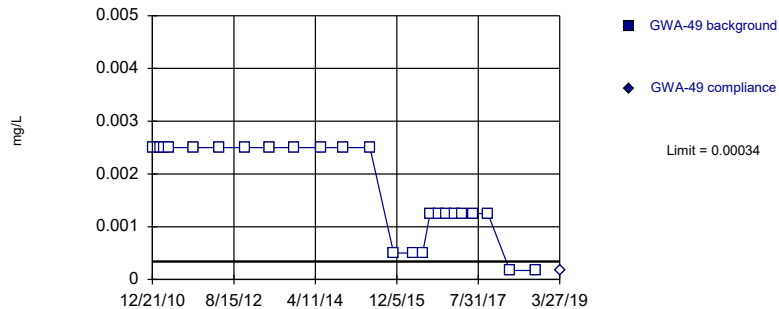


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

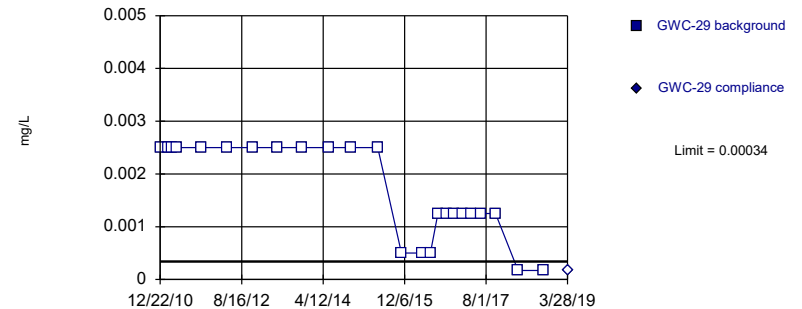


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

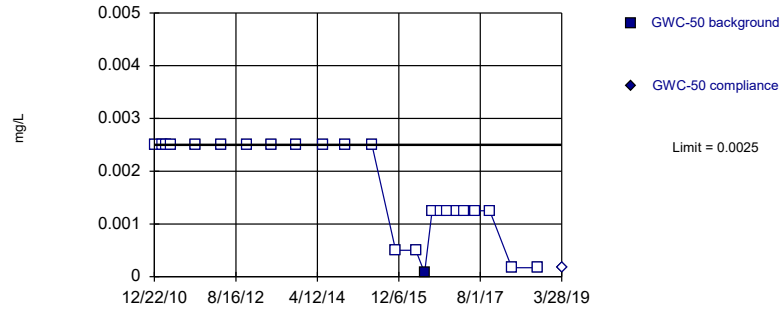


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

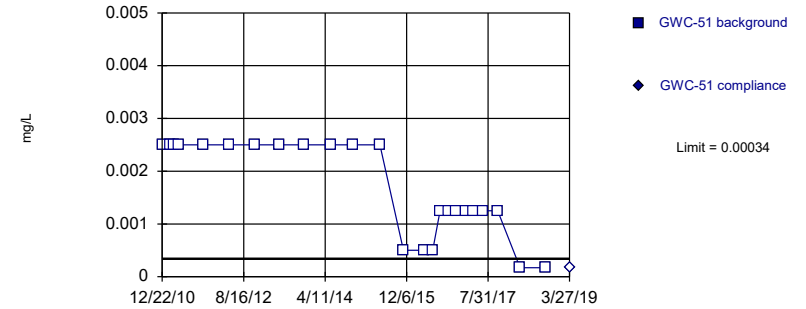


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

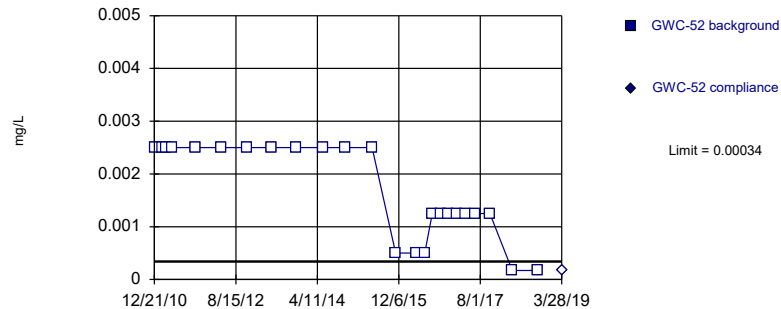


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

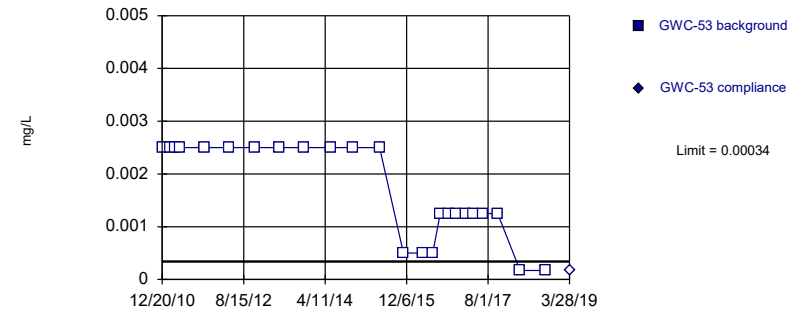


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

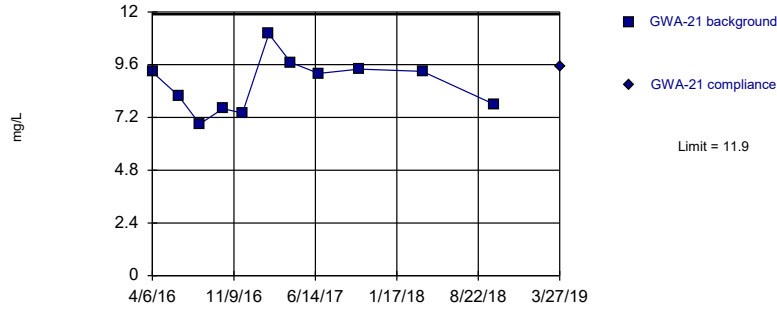
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cadmium, Total Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

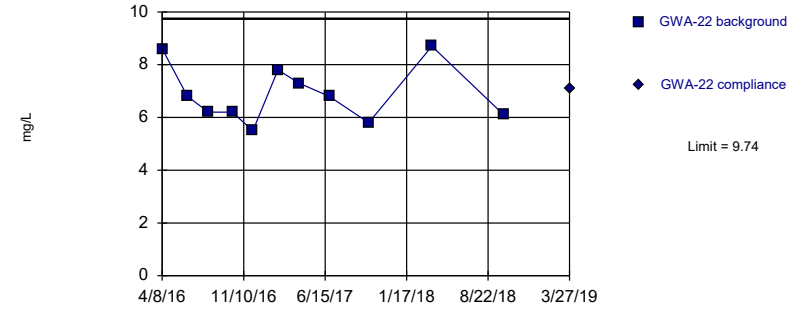
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=8.706, Std. Dev.=1.221, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9451, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

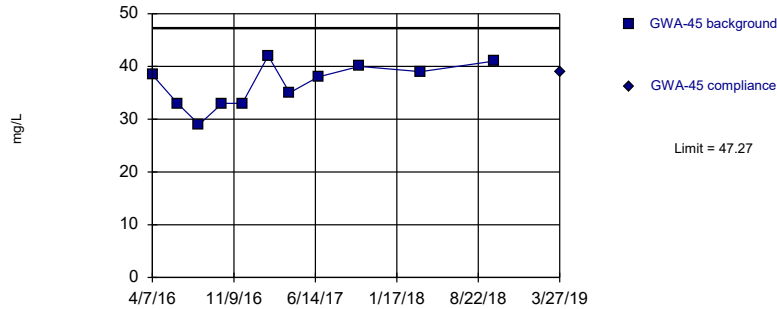
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.891, Std. Dev.=1.091, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9164, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

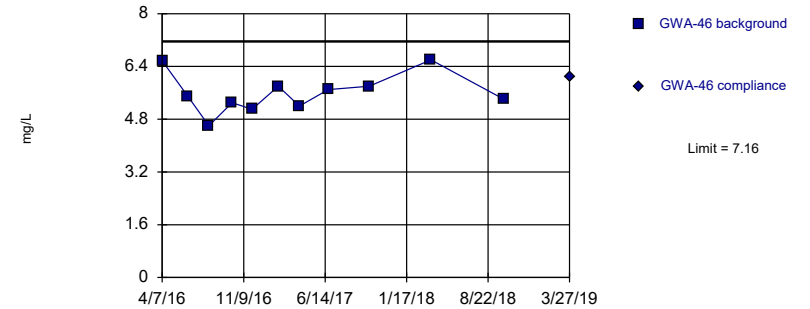
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=36.48, Std. Dev.=4.133, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

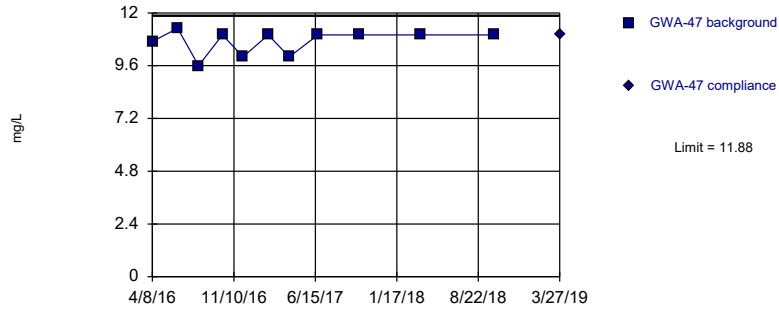
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.597, Std. Dev.=0.5984, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9408, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

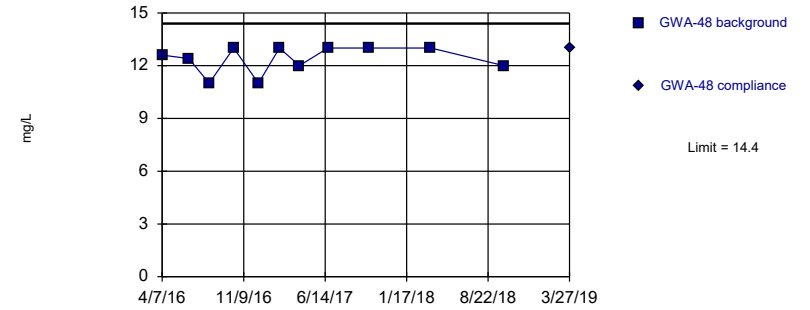
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on x⁴ transformation): Mean=13250, Std. Dev.=2544, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.797, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

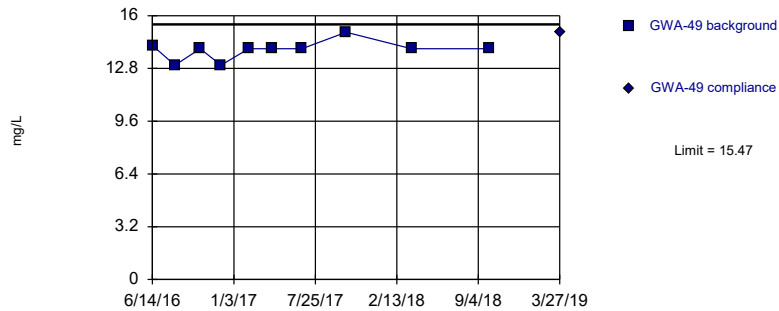
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=12.36, Std. Dev.=0.7788, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7935, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

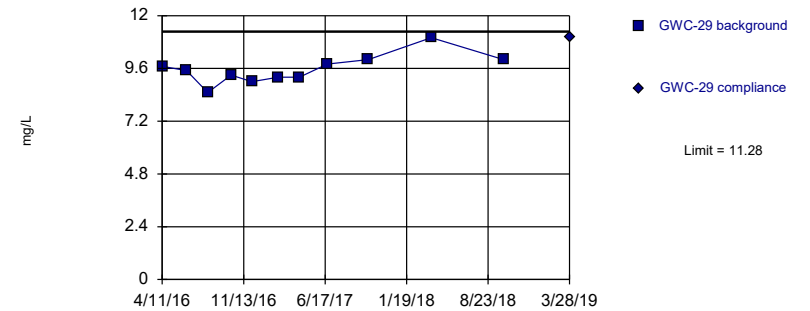
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=13.92, Std. Dev.=0.575, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7997, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Parametric

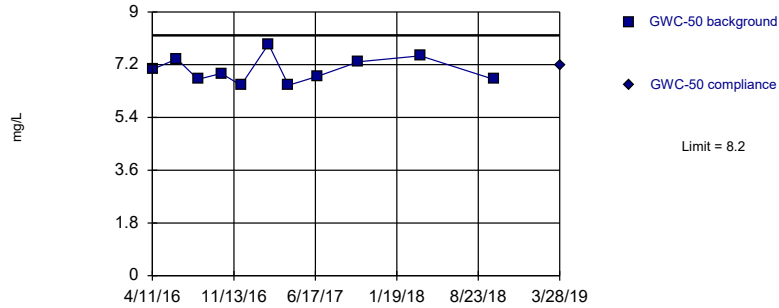


Background Data Summary: Mean=9.564, Std. Dev.=0.6562, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

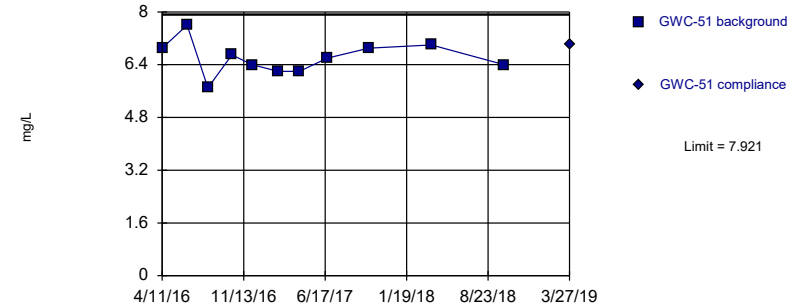


Background Data Summary: Mean=7.022, Std. Dev.=0.4513, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

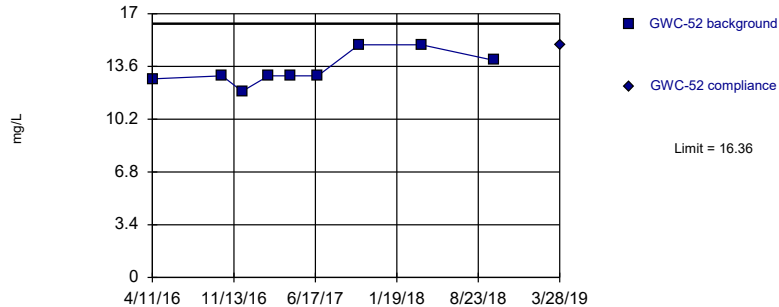


Background Data Summary: Mean=6.6, Std. Dev.=0.506, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.975, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

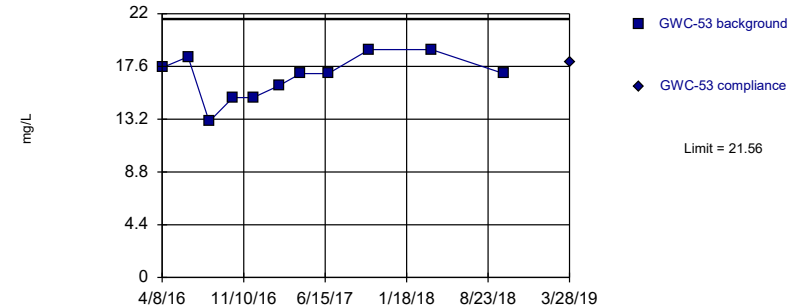


Background Data Summary: Mean=13.42, Std. Dev.=1.027, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.85, critical = 0.764. Kappa = 2.863 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

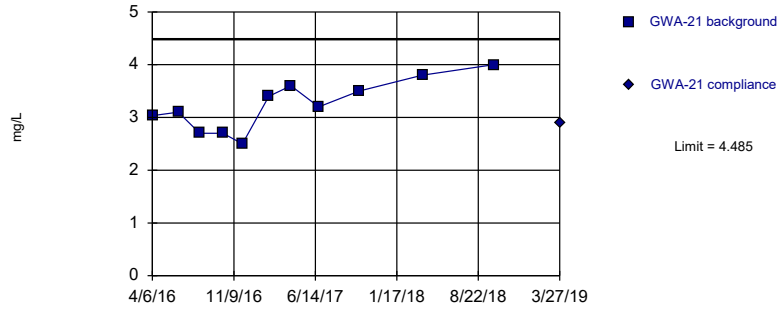
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=16.72, Std. Dev.=1.853, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9361, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Calcium Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

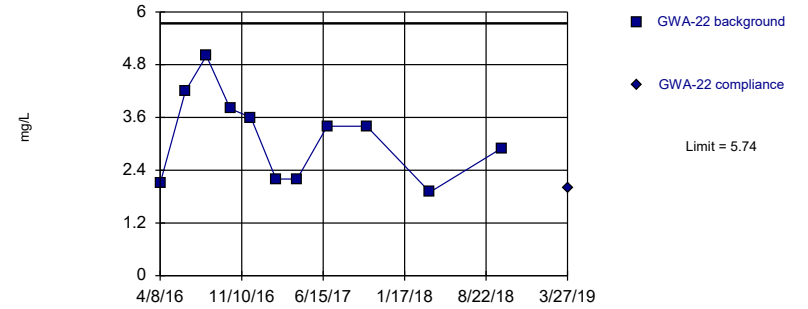
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.23, Std. Dev.=0.4804, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

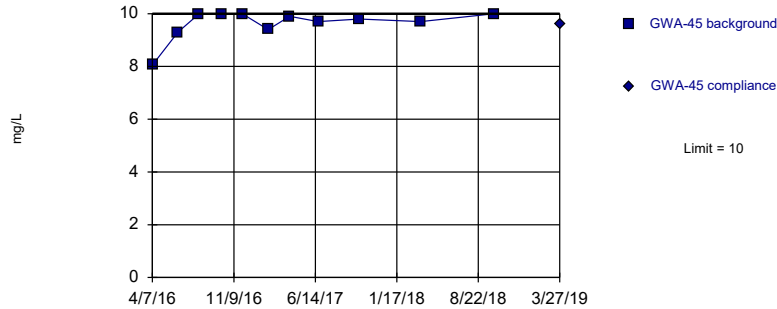
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.155, Std. Dev.=0.9903, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:19 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

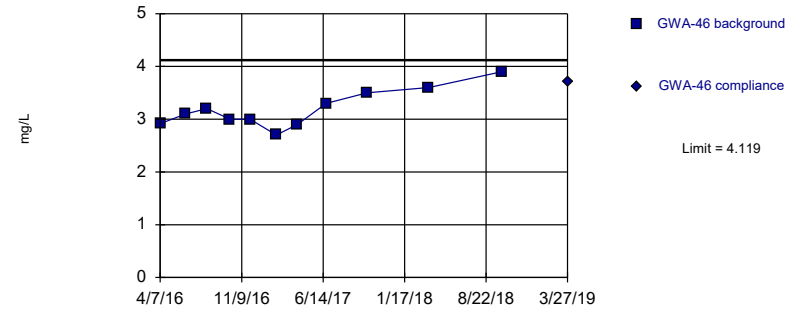
Within Limit Prediction Limit
Intrawell Non-parametric



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. Limit is highest of 11 background values. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

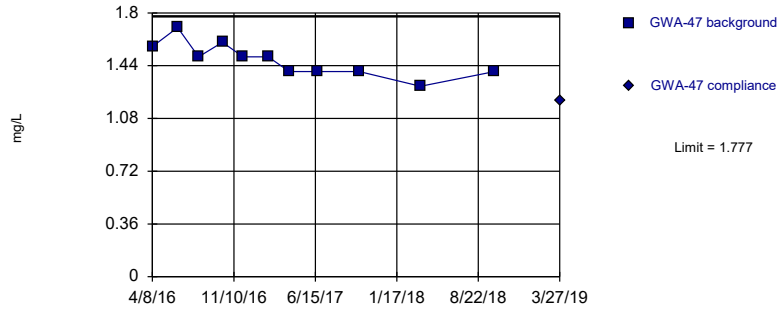
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.192, Std. Dev.=0.3551, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9479, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

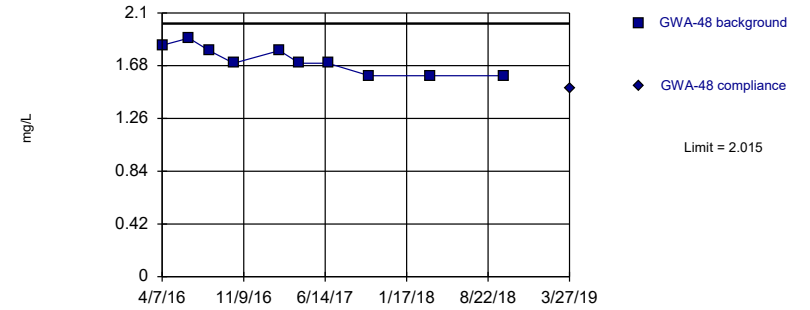
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.479, Std. Dev.=0.1141, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9416, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

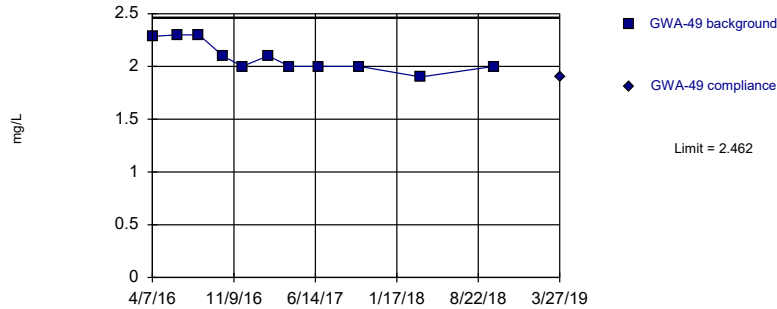
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.724, Std. Dev.=0.1077, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9028, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

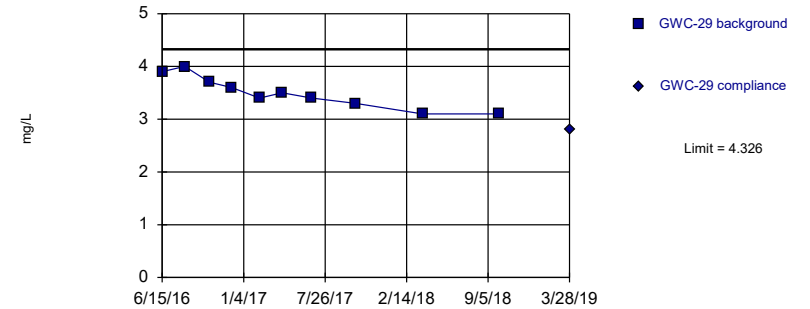
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=2.09, Std. Dev.=0.1425, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8245, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

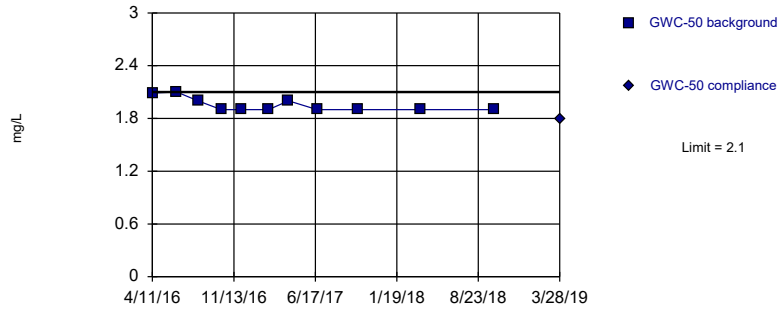
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=3.5, Std. Dev.=0.3055, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

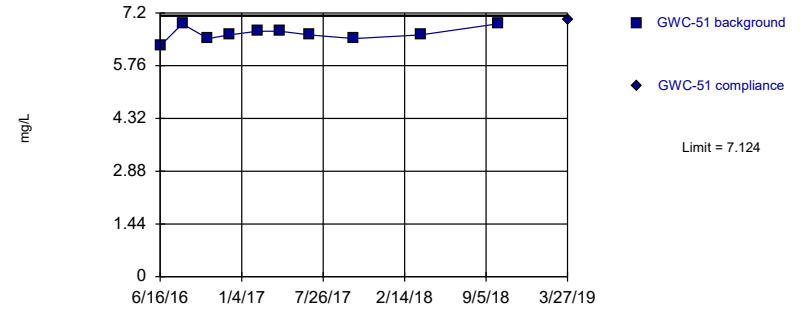
Within Limit Prediction Limit
Intrawell Non-parametric



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. Limit is highest of 11 background values. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

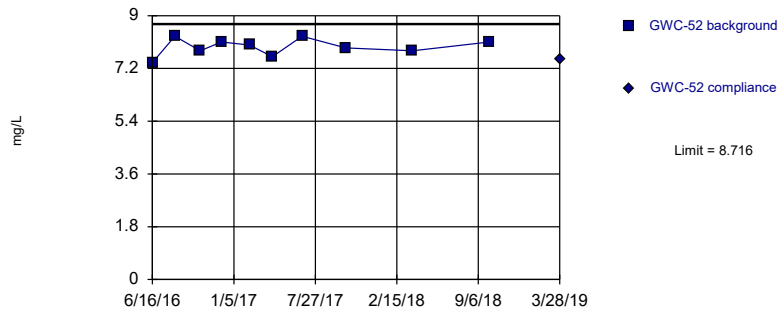
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=6.63, Std. Dev.=0.1829, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

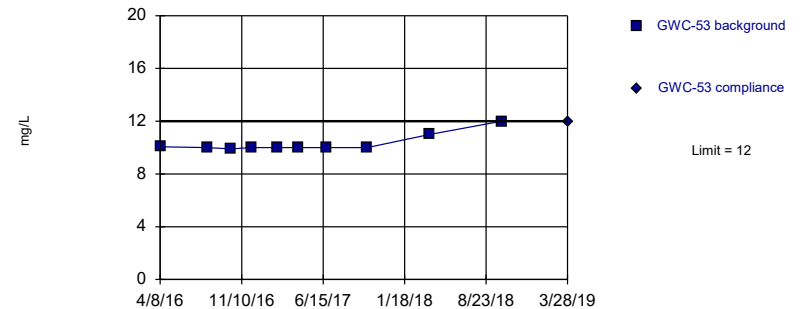
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=7.93, Std. Dev.=0.2908, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Non-parametric

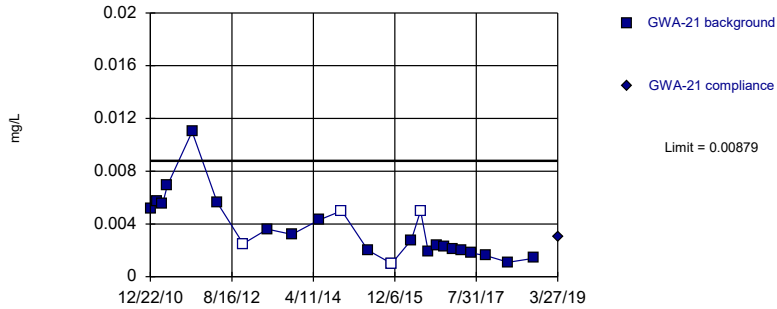


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. Well-constituent pair annual alpha = 0.0293. Individual comparison alpha = 0.01476 (1 of 2).

Constituent: Chloride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Parametric

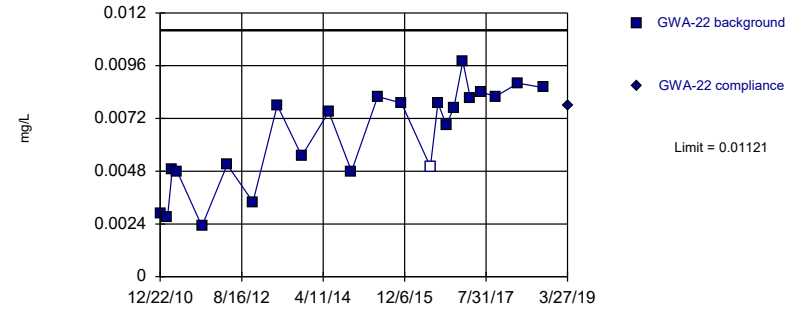


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05569, Std. Dev.=0.01773, n=24, 16.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9343, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Parametric

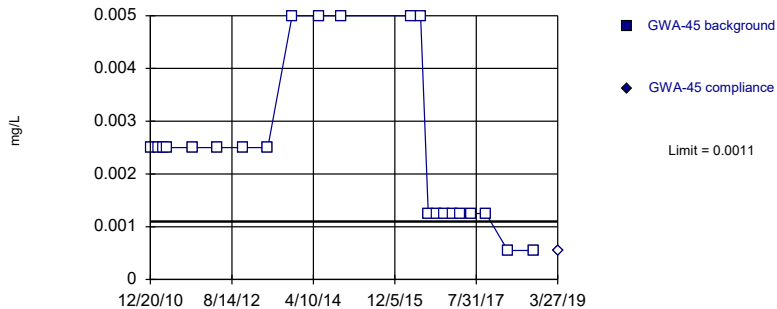


Background Data Summary: Mean=0.0064, Std. Dev.=0.002223, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.907, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Non-parametric

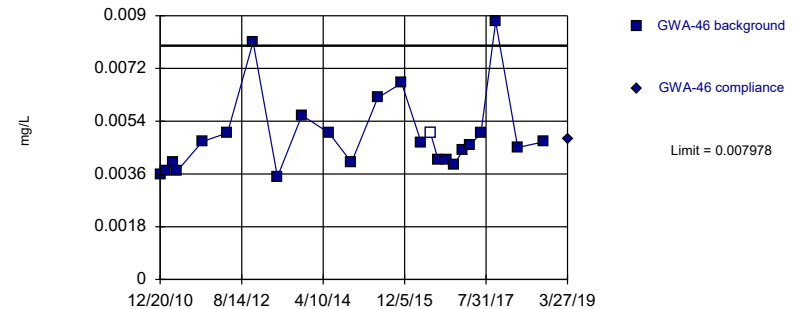


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit Prediction Limit
Intrawell Parametric

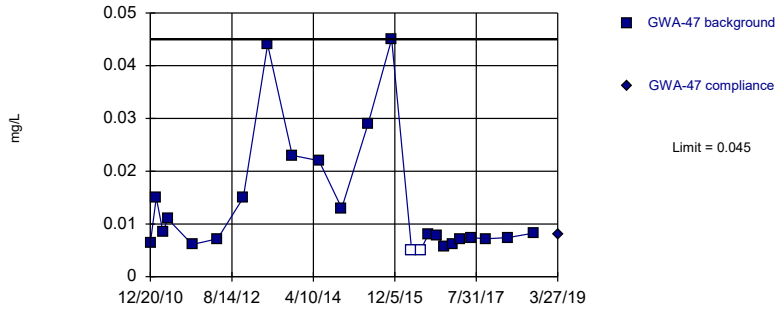


Background Data Summary (based on natural log transformation): Mean=-5.349, Std. Dev.=0.2412, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8955, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

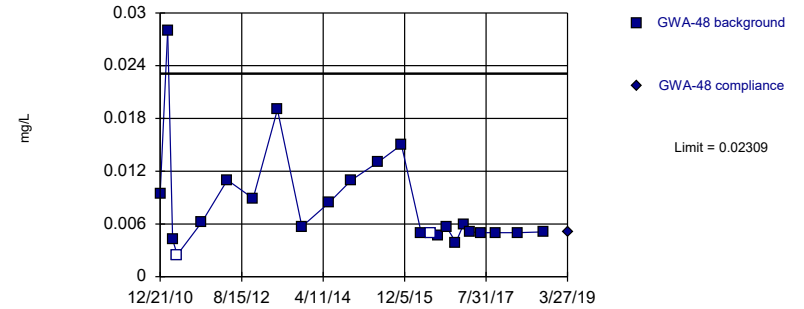


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 8.333% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

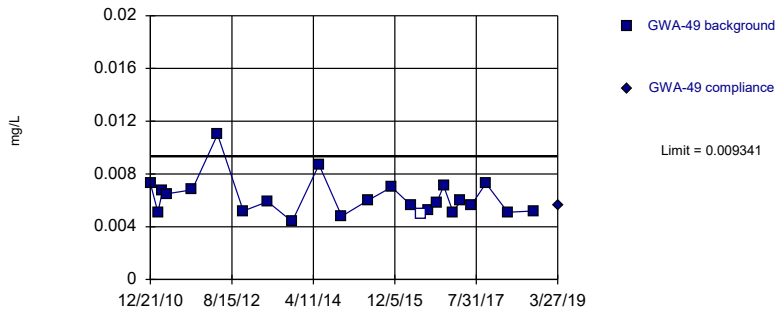


Background Data Summary (based on natural log transformation): Mean=-4.969, Std. Dev.=0.5593, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

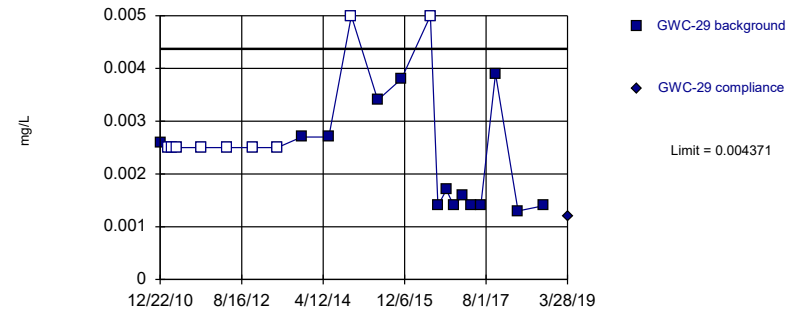


Background Data Summary (based on square root transformation): Mean=0.07821, Std. Dev.=0.008586, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8872, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric



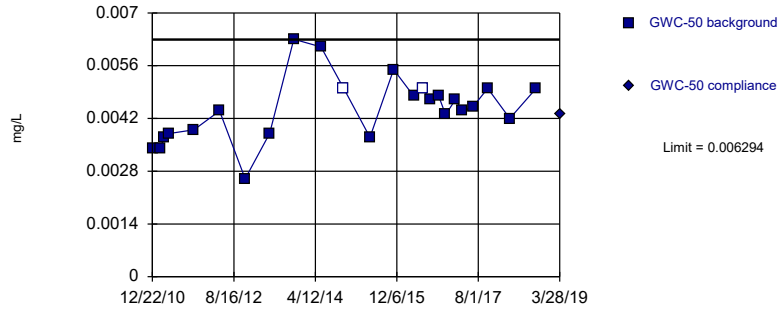
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04451, Std. Dev.=0.009984, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8898, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



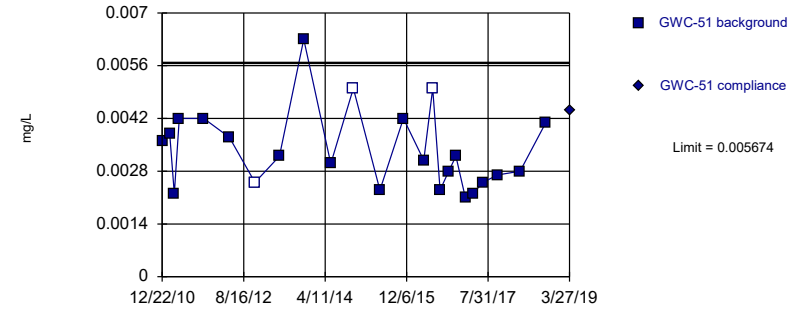
Background Data Summary: Mean=0.004458, Std. Dev.=0.0008549, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



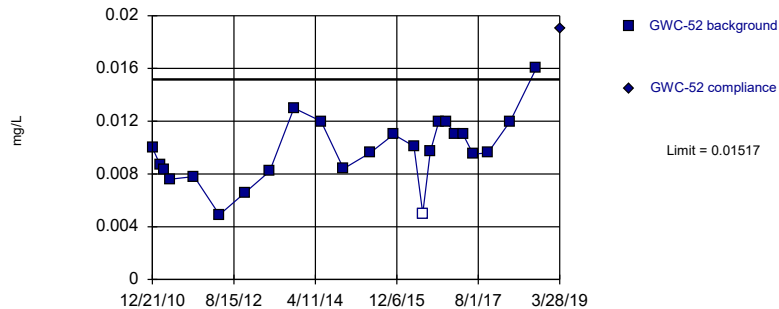
Background Data Summary: Mean=0.003375, Std. Dev.=0.001071, n=24, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9127, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Parametric



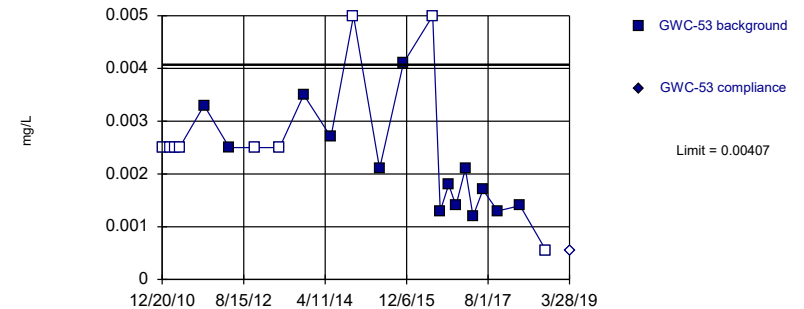
Background Data Summary: Mean=0.00975, Std. Dev.=0.002526, n=24, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9716, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric

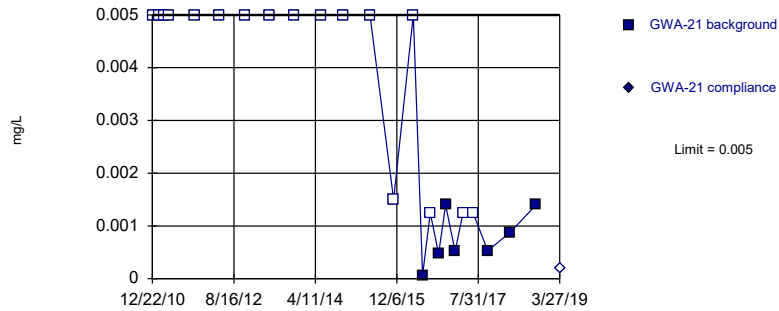


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002026, Std. Dev.=0.0009448, n=23, 39.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9139, critical = 0.881. Kappa = 2.163 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Chromium, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

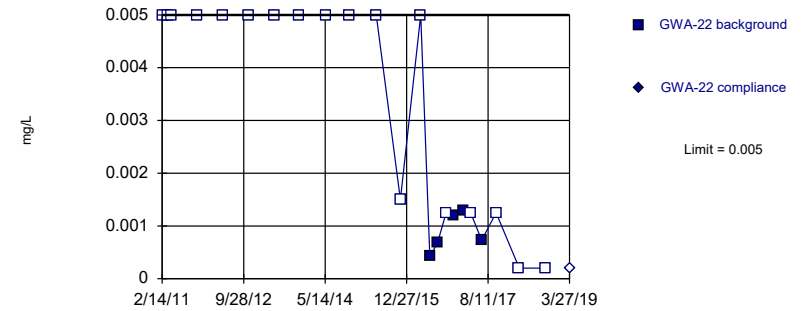


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

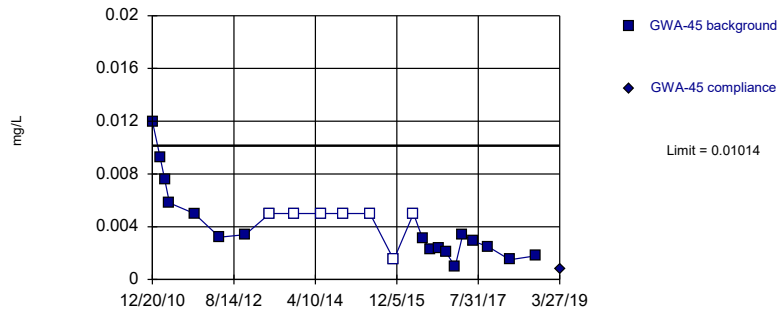


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 78.26% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

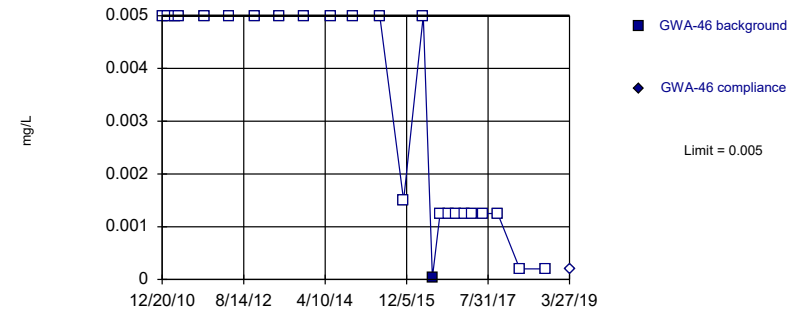


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05821, Std. Dev.=0.01979, n=24, 29.17% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

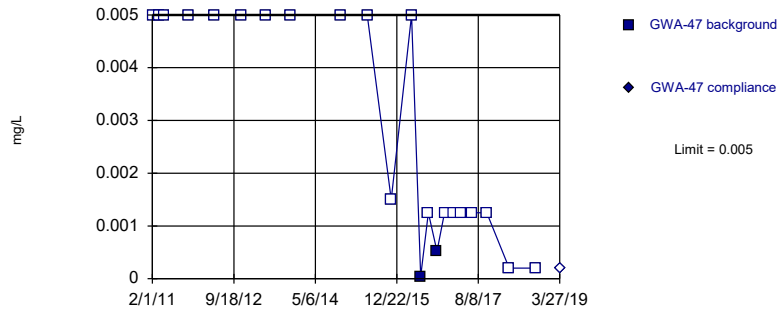


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

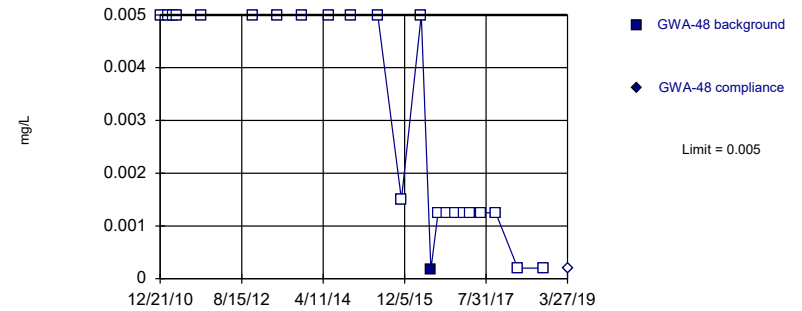


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

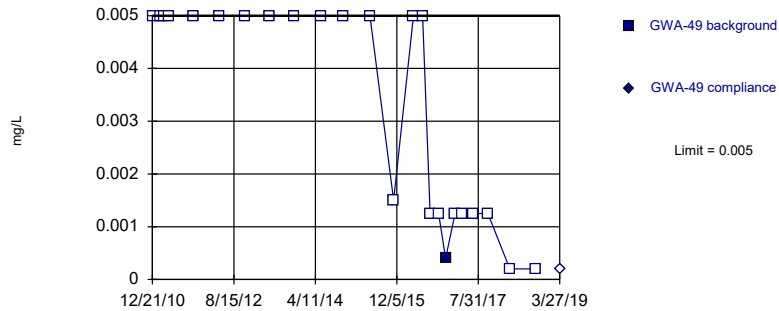


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

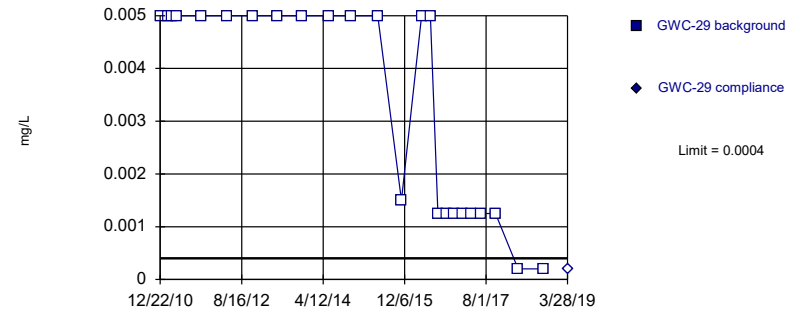


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

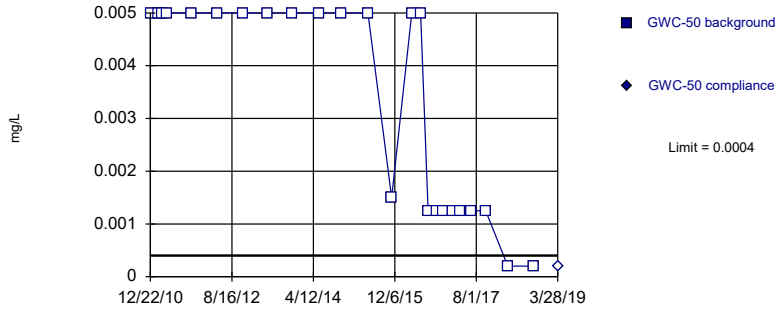


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

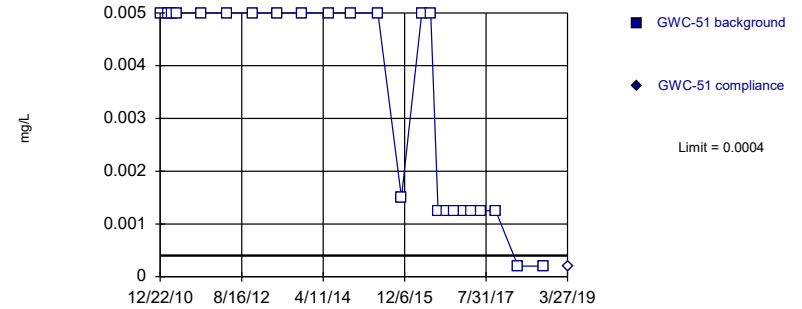


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

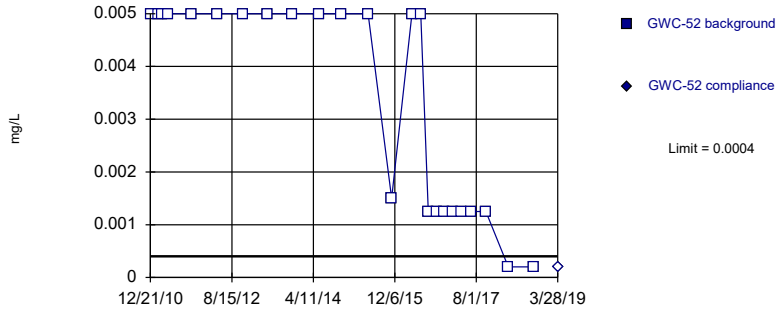


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

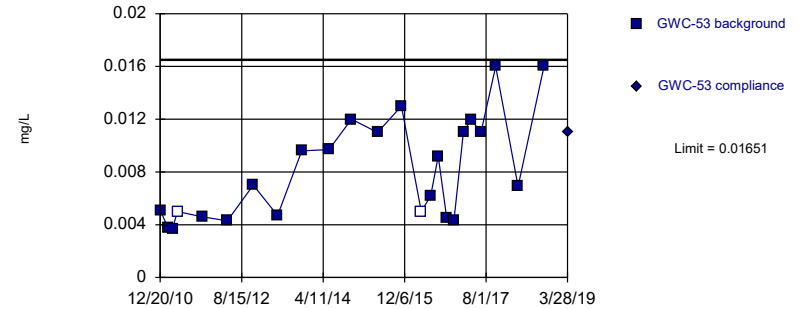


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

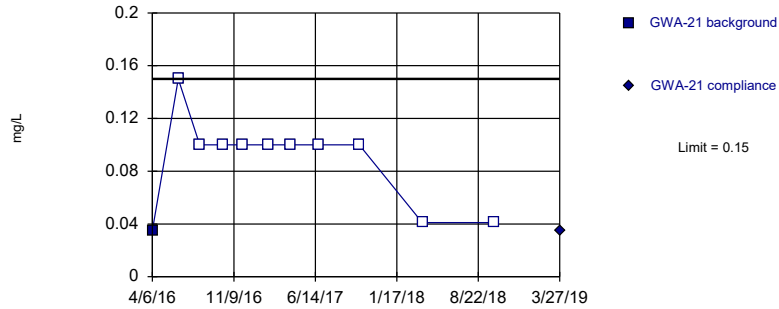


Background Data Summary: Mean=0.00815, Std. Dev.=0.003892, n=24, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8874, critical = 0.884. Kappa = 2.147 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Cobalt, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

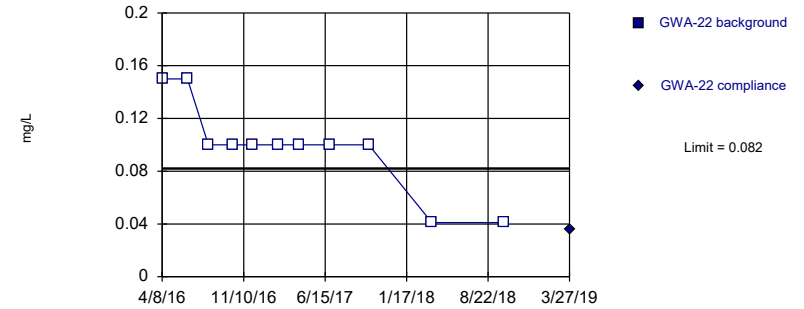


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

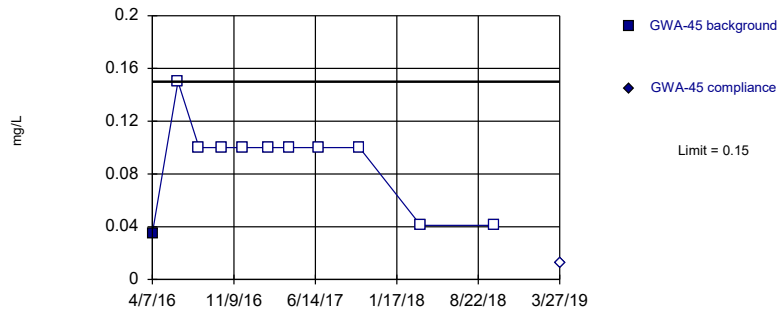


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

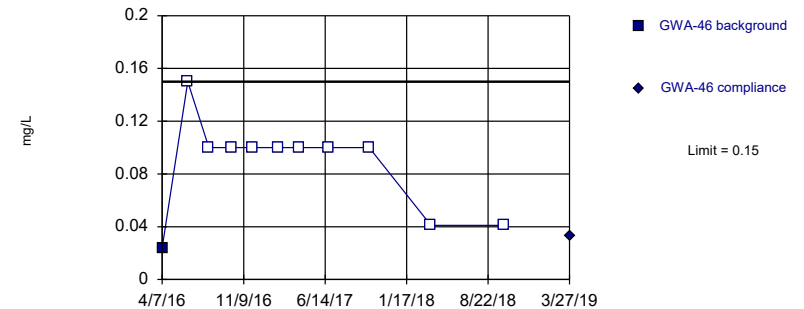


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

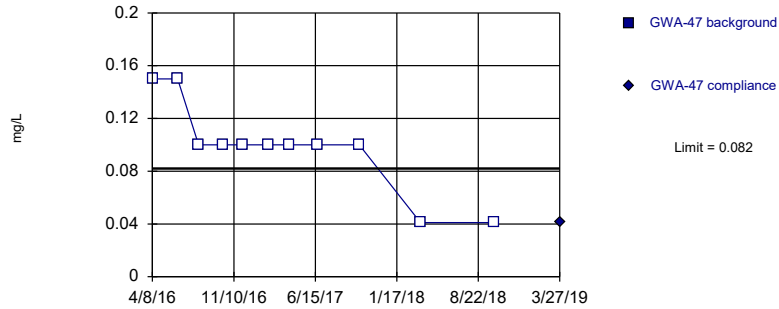


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

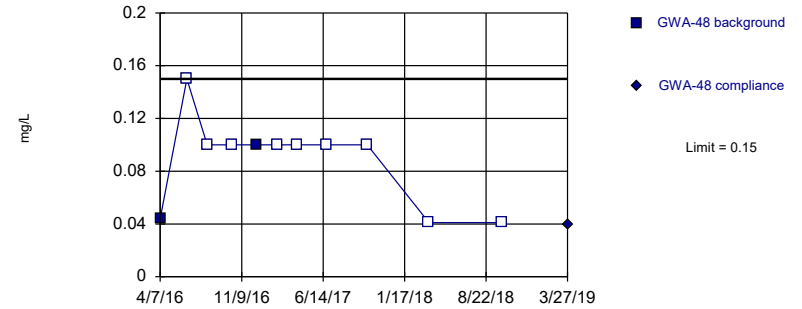


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

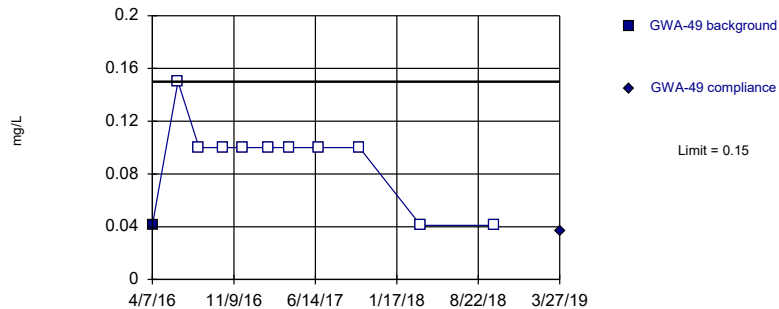


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

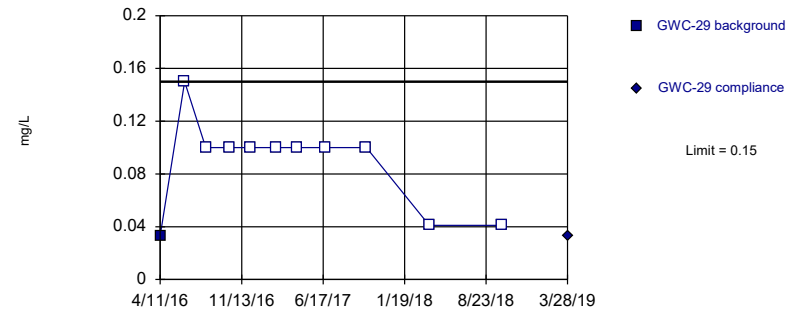


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

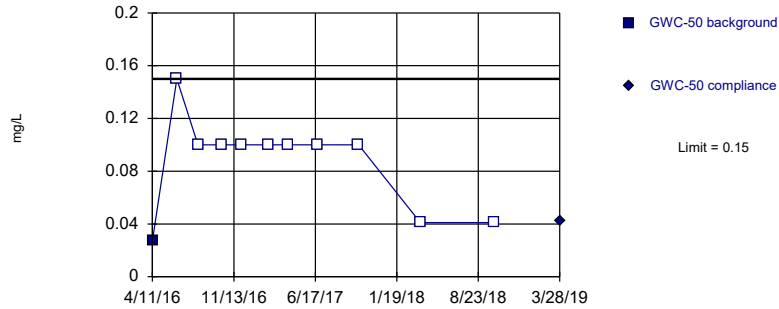


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

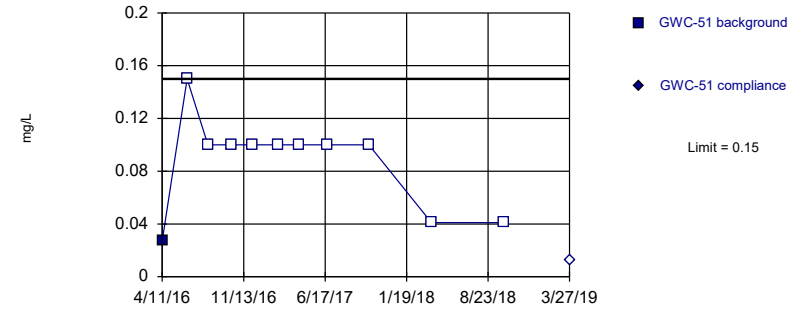


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

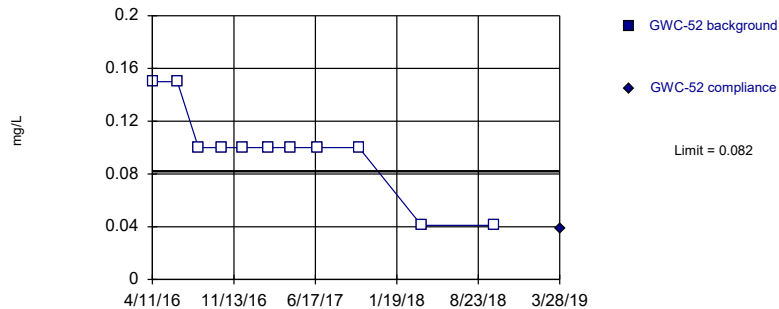


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

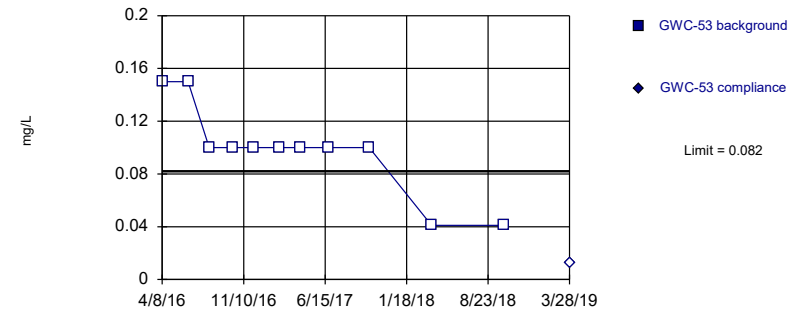


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

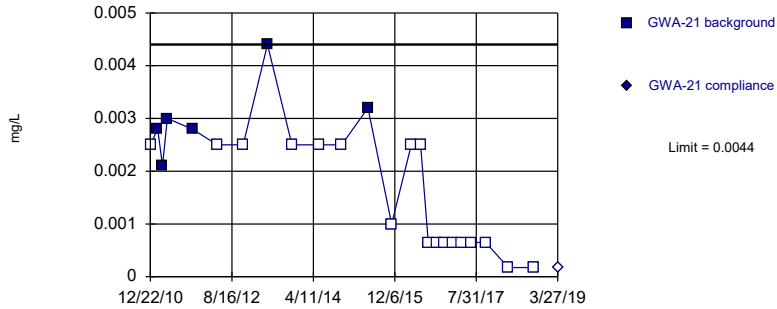
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Fluoride Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

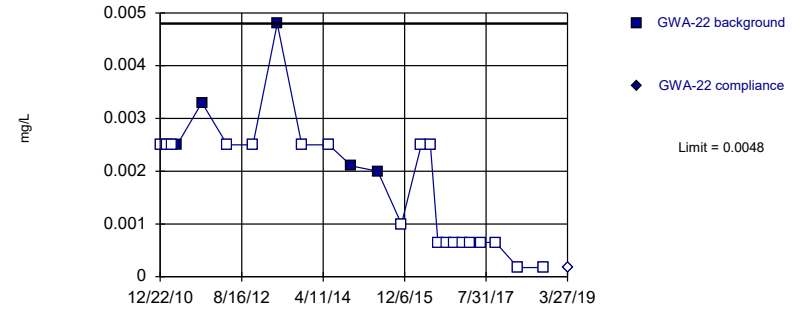
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

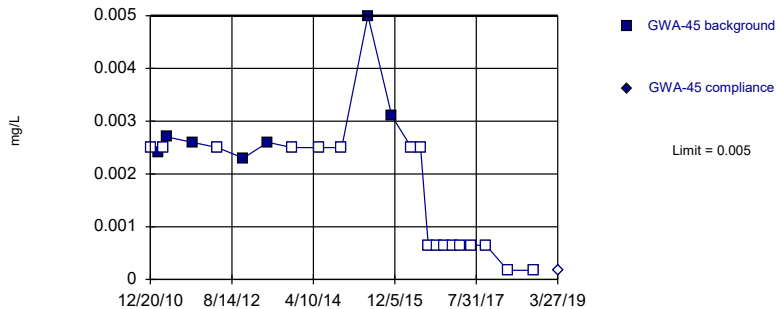
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

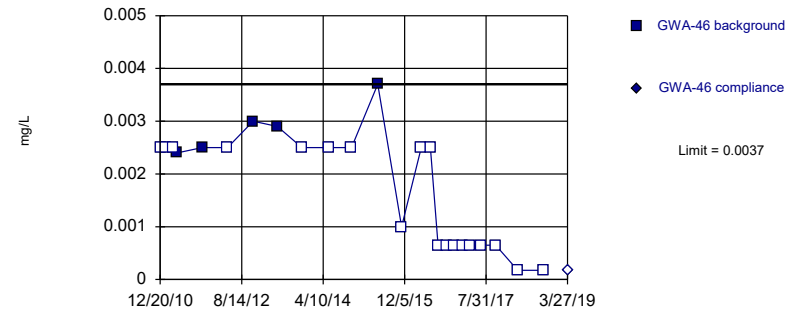
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Non-parametric

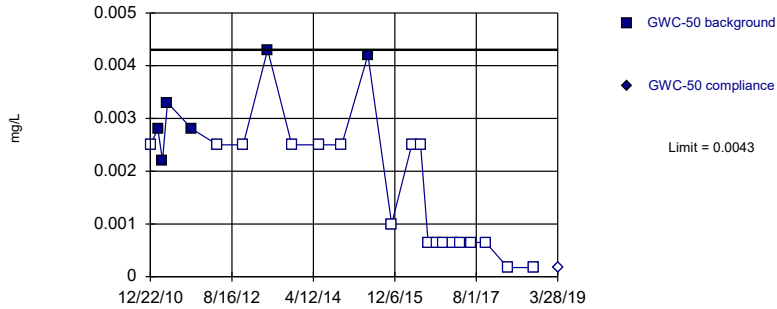


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 79.17% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:20 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

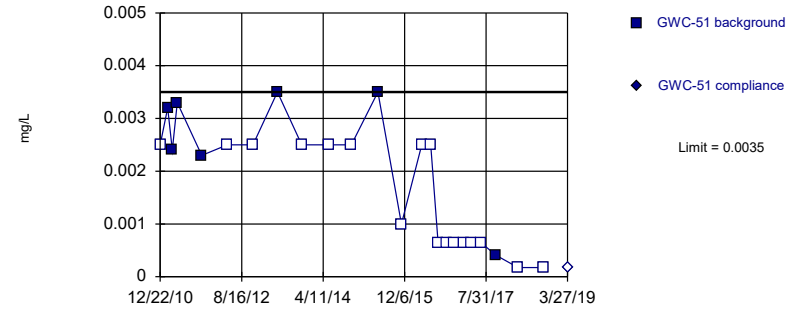


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 75% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

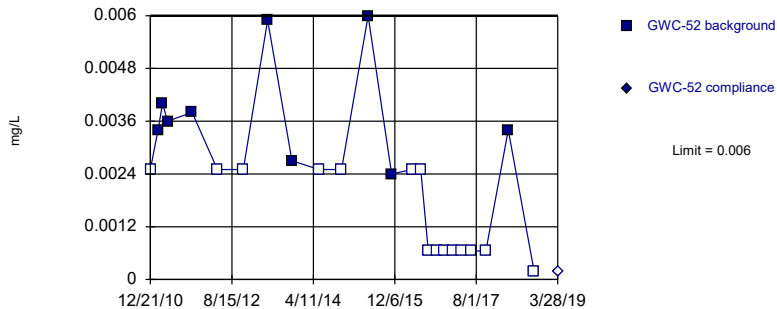


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

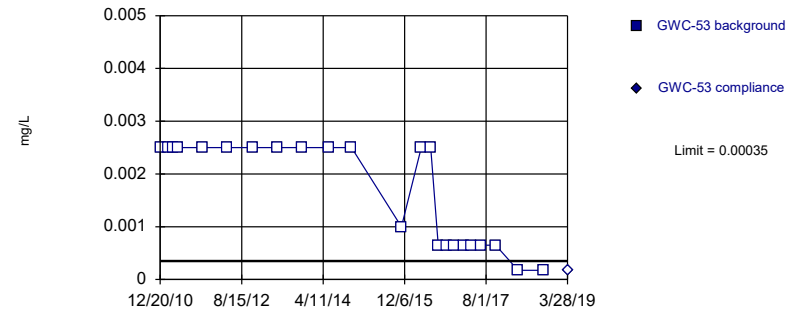


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

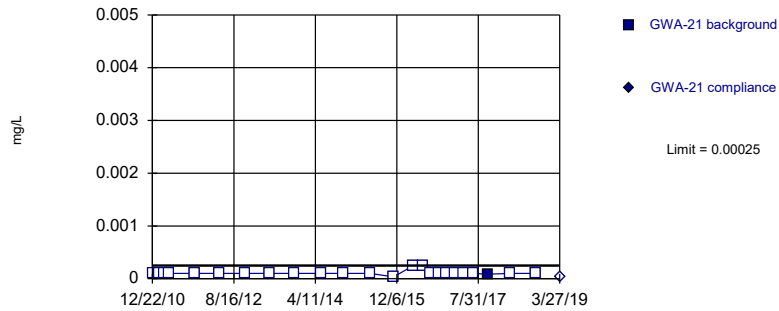


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

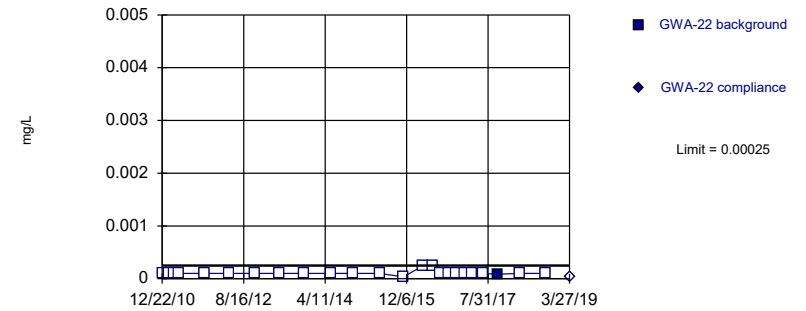


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

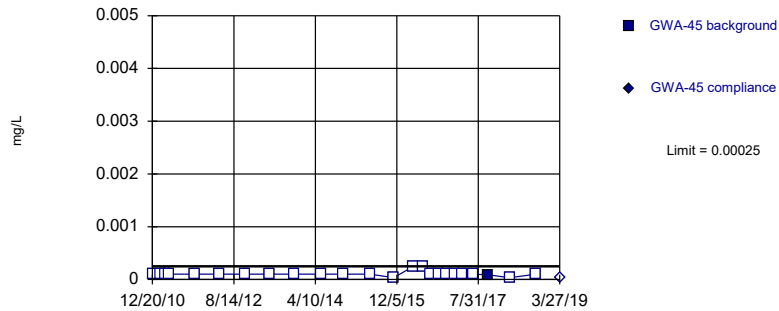


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

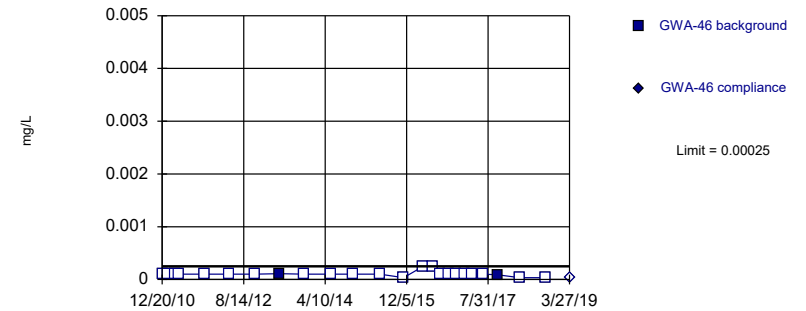


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

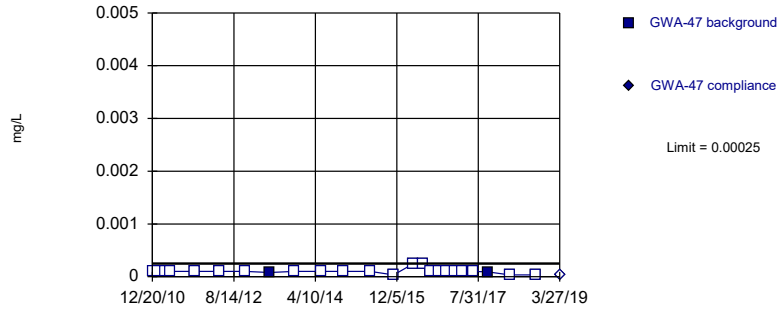


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

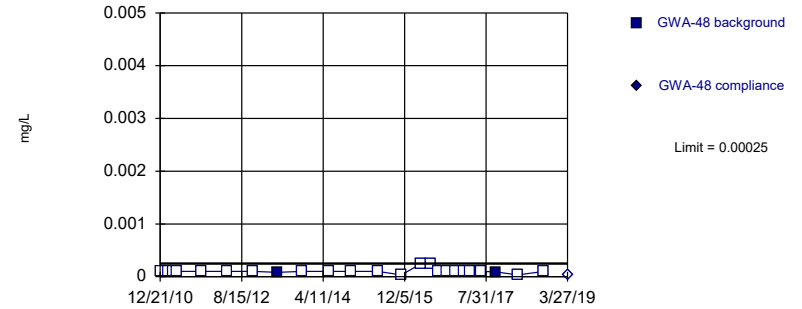


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

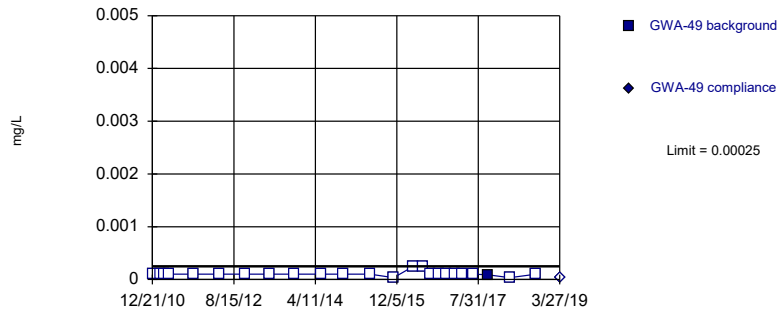


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

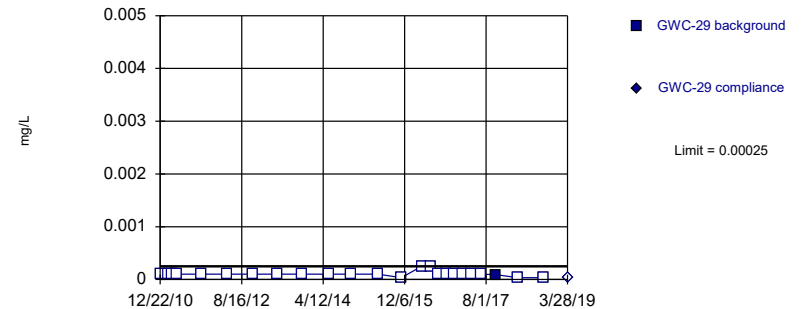


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

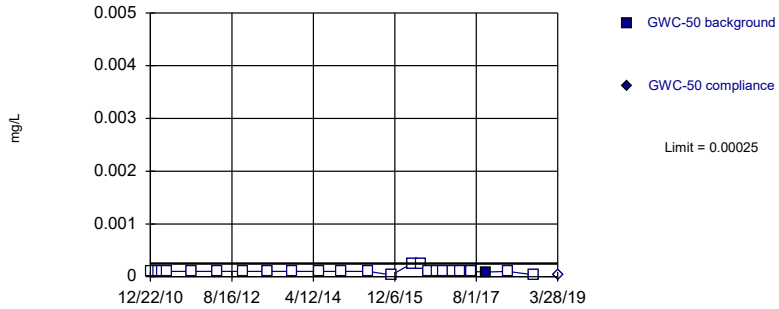
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

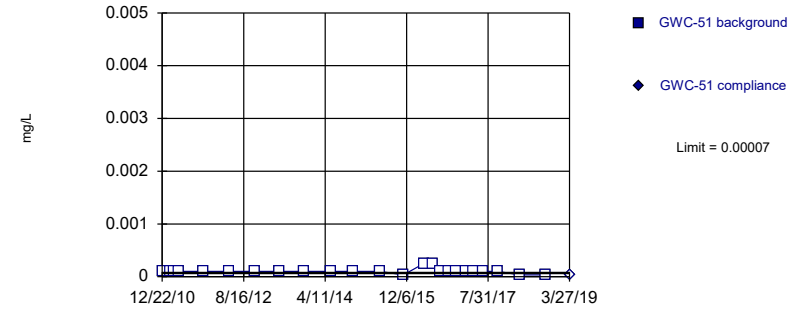
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

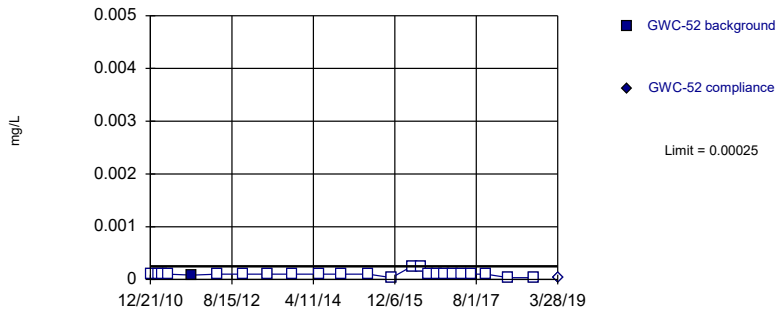
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

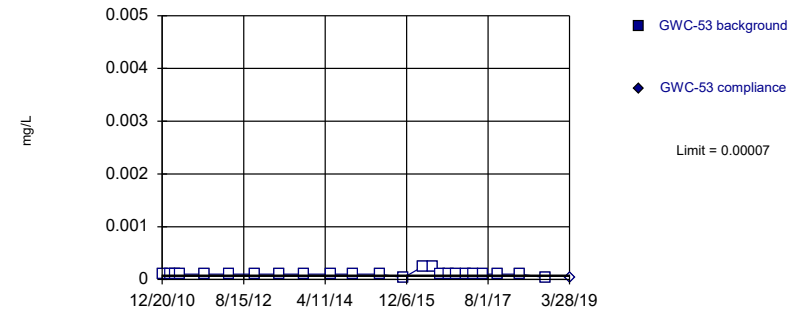
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Non-parametric

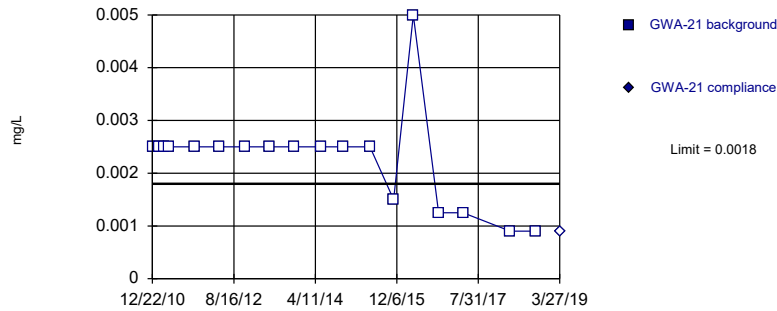


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

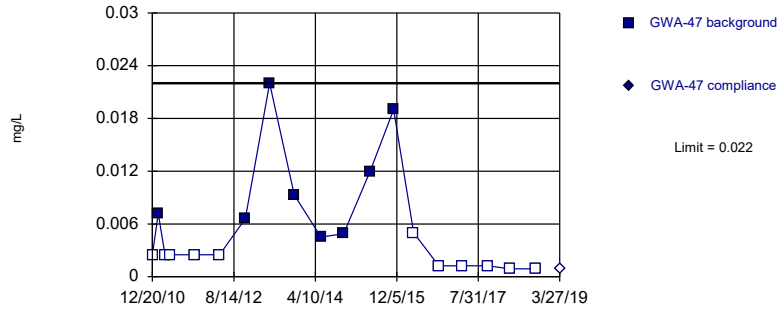
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

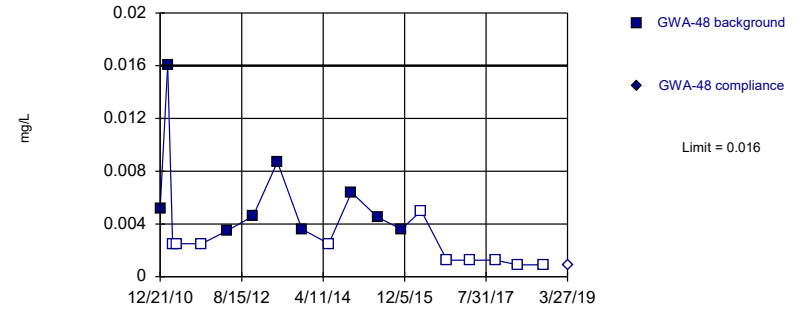


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

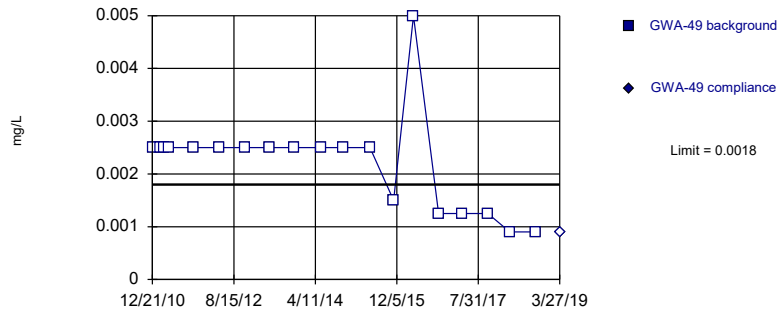


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 52.63% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

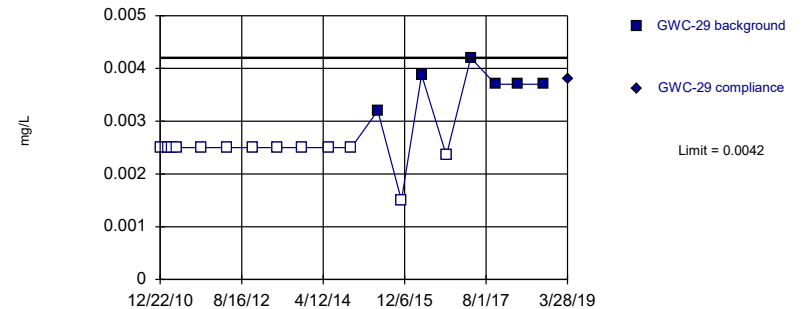


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

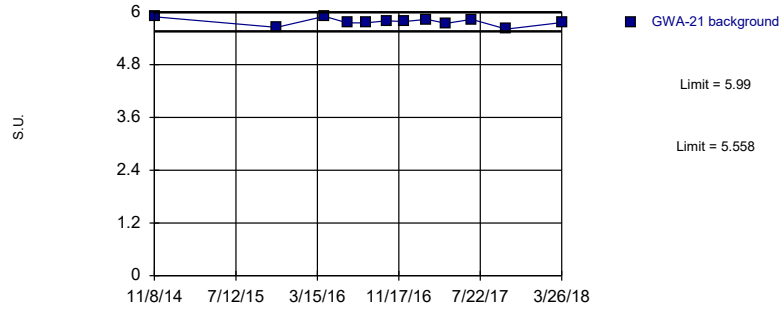
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

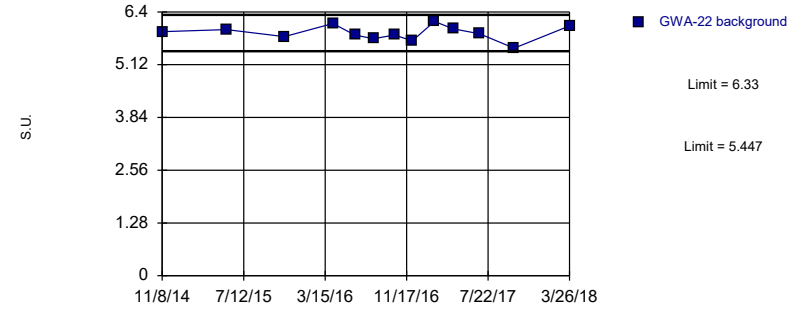
Prediction Limit
Intrawell Parametric, GWA-21 (bg)



Background Data Summary: Mean=5.774, Std. Dev.=0.08586, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

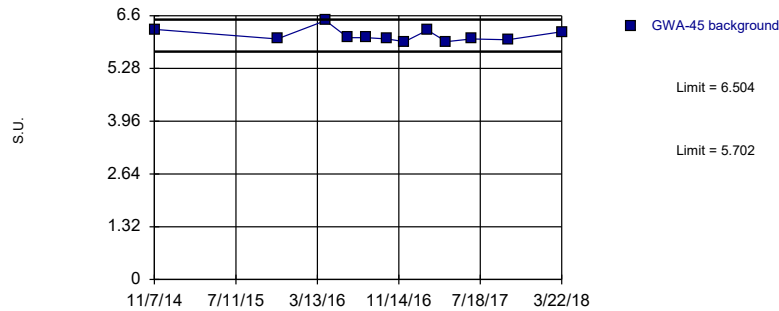
Prediction Limit
Intrawell Parametric, GWA-22 (bg)



Background Data Summary: Mean=5.888, Std. Dev.=0.1788, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

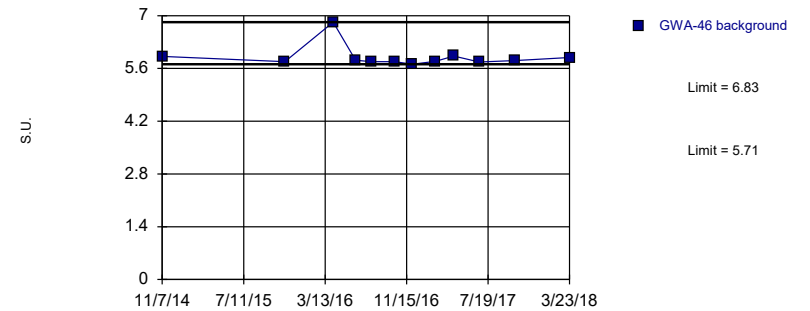
Prediction Limit
Intrawell Parametric, GWA-45 (bg)



Background Data Summary: Mean=6.103, Std. Dev.=0.1592, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.833, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

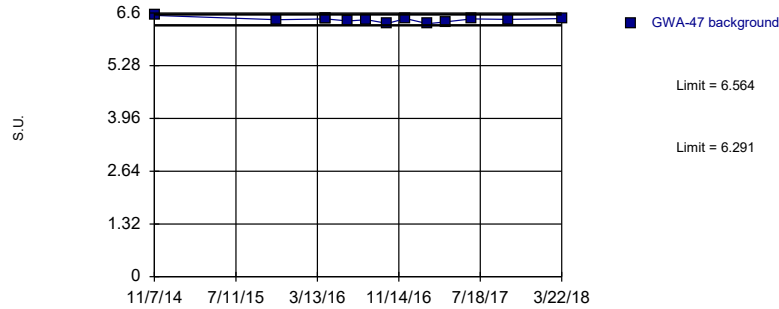
Prediction Limit
Intrawell Non-parametric, GWA-46 (bg)



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 12 background values. Well-constituent pair annual alpha = 0.04286. Individual comparison alpha = 0.02155 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

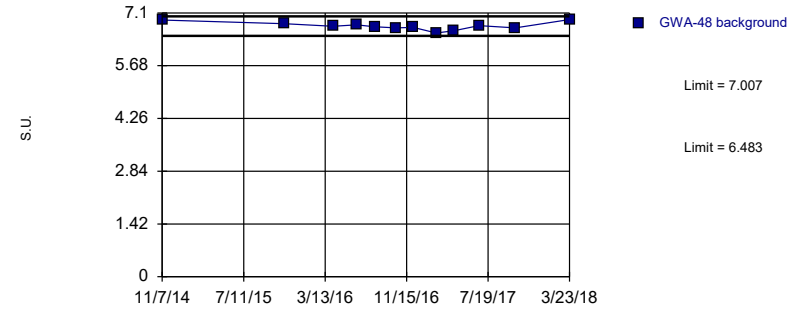
Prediction Limit
Intrawell Parametric, GWA-47 (bg)



Background Data Summary: Mean=6.428, Std. Dev.=0.05525, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9197, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

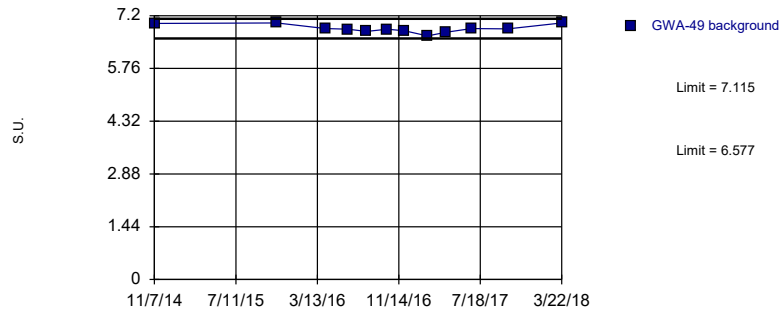
Prediction Limit
Intrawell Parametric, GWA-48 (bg)



Background Data Summary: Mean=6.745, Std. Dev.=0.104, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

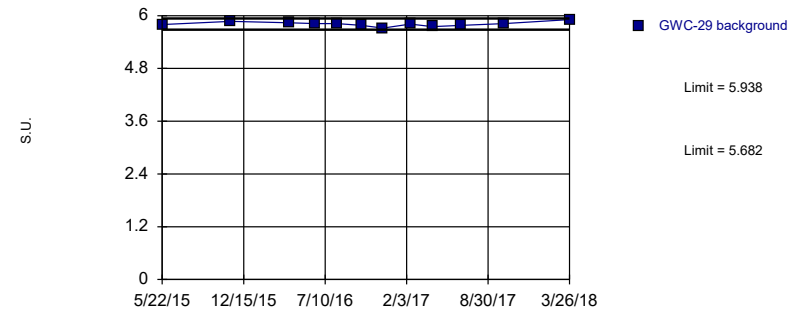
Prediction Limit
Intrawell Parametric, GWA-49 (bg)



Background Data Summary: Mean=6.846, Std. Dev.=0.1067, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9121, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

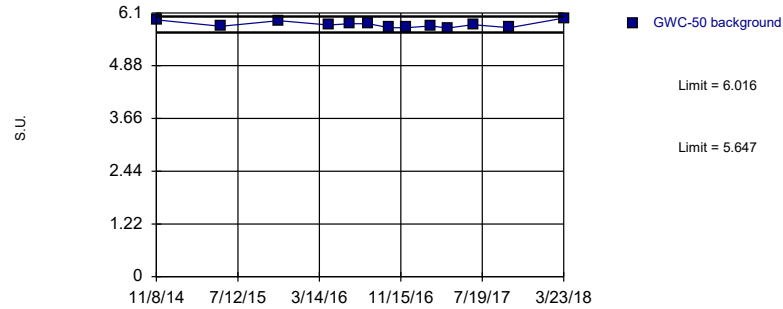
Prediction Limit
Intrawell Parametric, GWC-29



Background Data Summary: Mean=5.81, Std. Dev.=0.05081, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.805. Kappa = 2.519 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

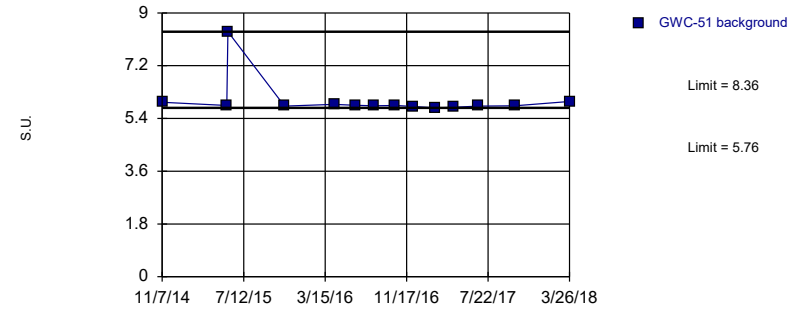
Prediction Limit
Intrawell Parametric, GWC-50



Background Data Summary: Mean=5.832, Std. Dev.=0.07482, n=13. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8956, critical = 0.814. Kappa = 2.47 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574. Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

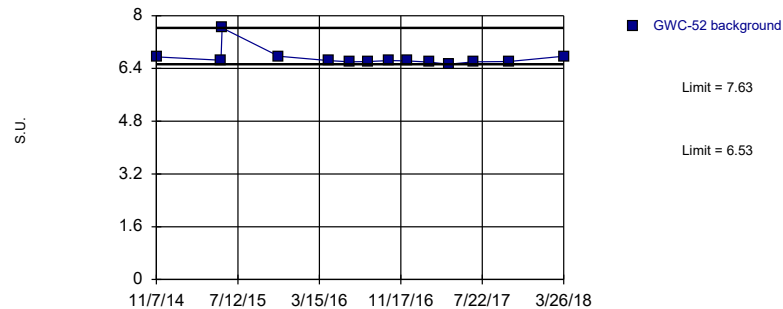
Prediction Limit
Intrawell Non-parametric, GWC-51



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 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

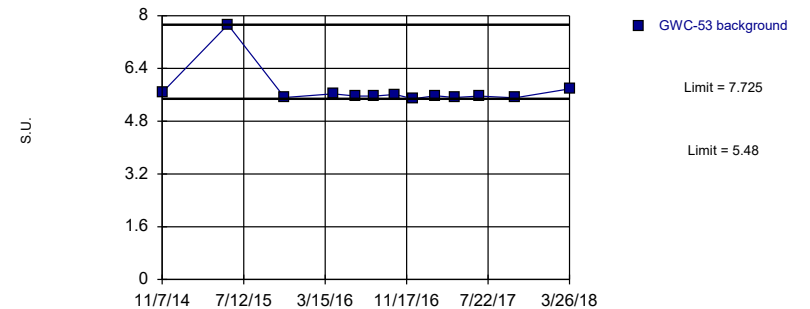
Prediction Limit
Intrawell Non-parametric, GWC-52



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 14 background values. Well-constituent pair annual alpha = 0.0343. Individual comparison alpha = 0.01722 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Prediction Limit
Intrawell Non-parametric, GWC-53

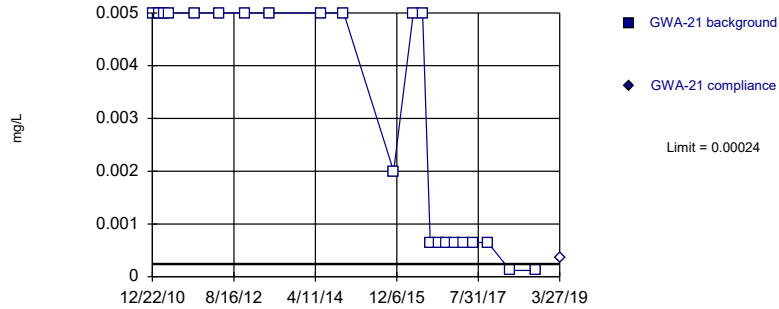


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 13 background values. Well-constituent pair annual alpha = 0.03858. Individual comparison alpha = 0.01938 (1 of 2). Assumes 1 future value.

Constituent: pH Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

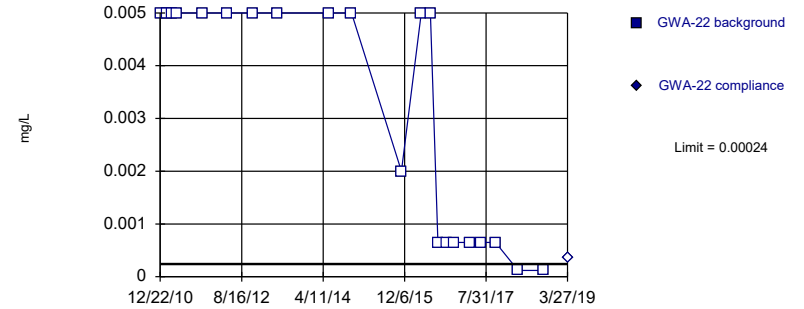


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

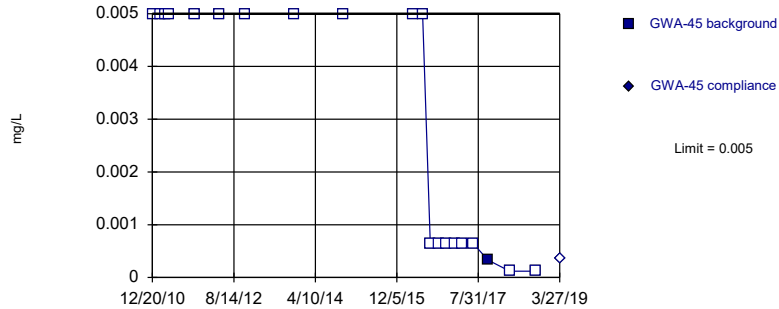


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

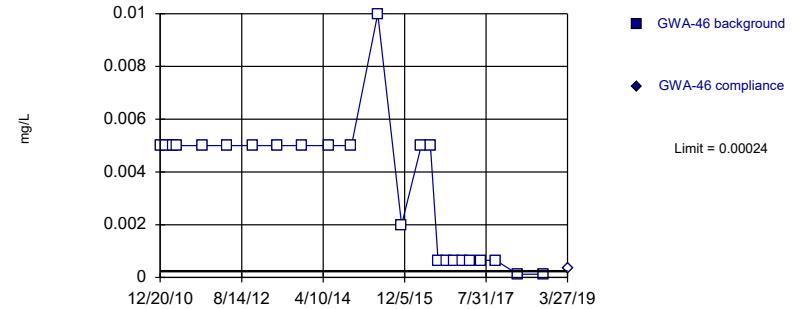


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 95% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

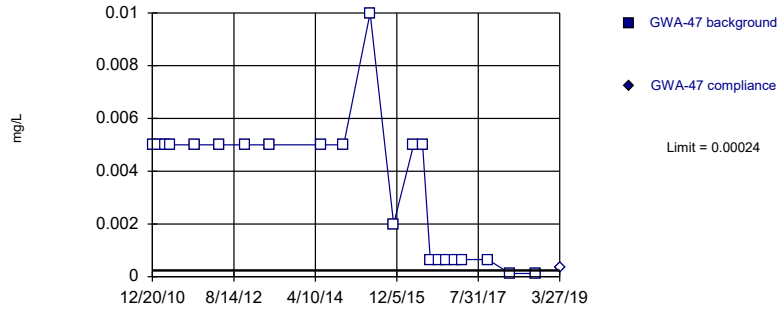


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

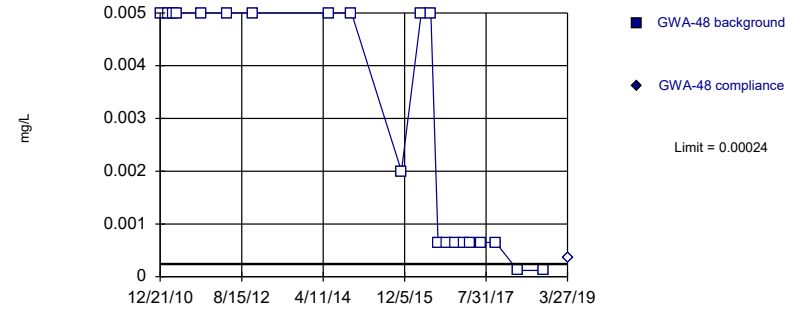


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

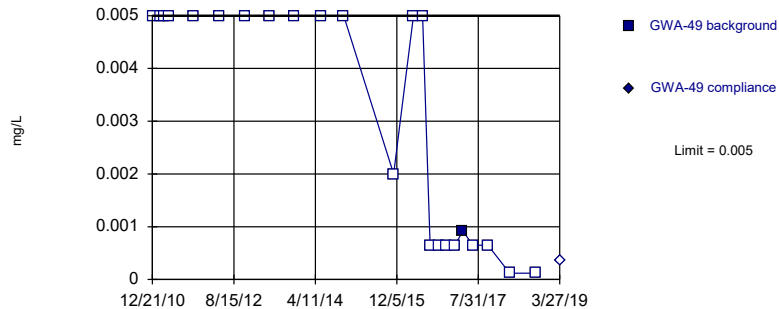


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 21) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

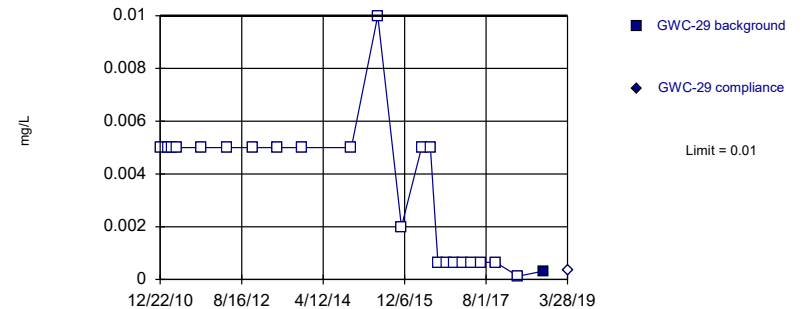


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

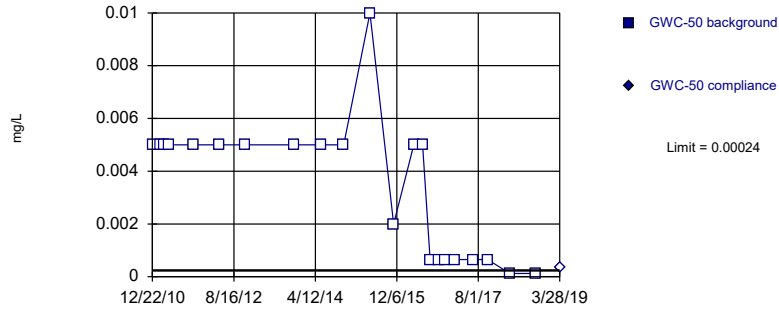


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

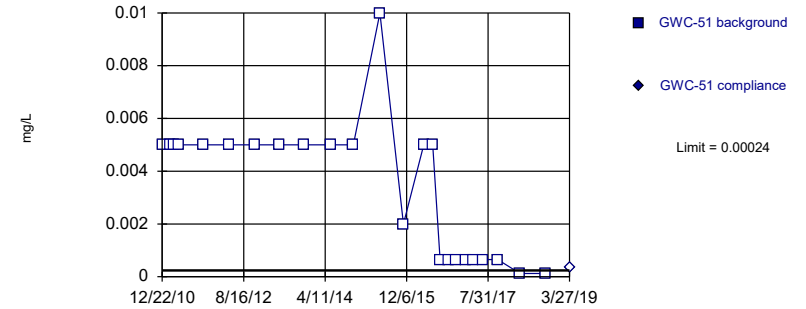


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 22) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

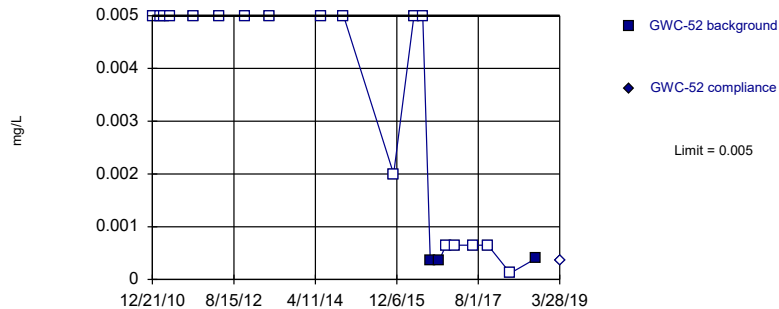


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

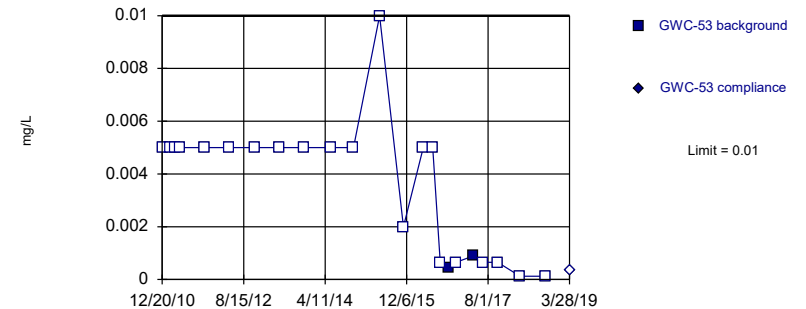


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

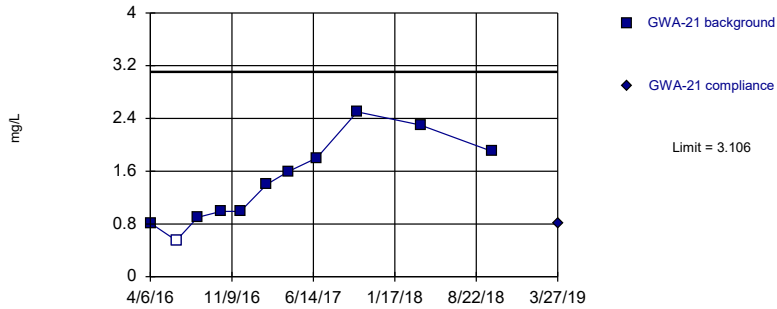
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium, Total Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

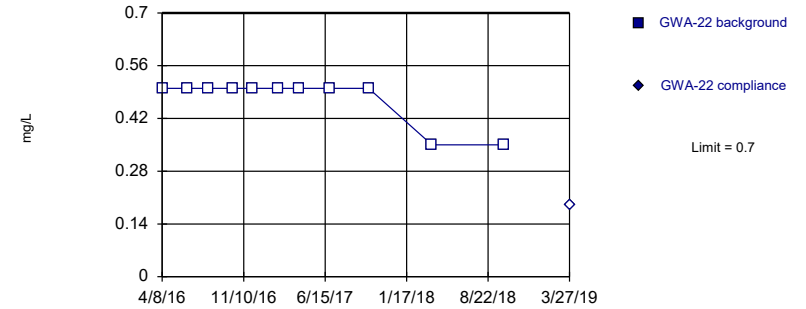
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1.431, Std. Dev.=0.6413, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.943, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

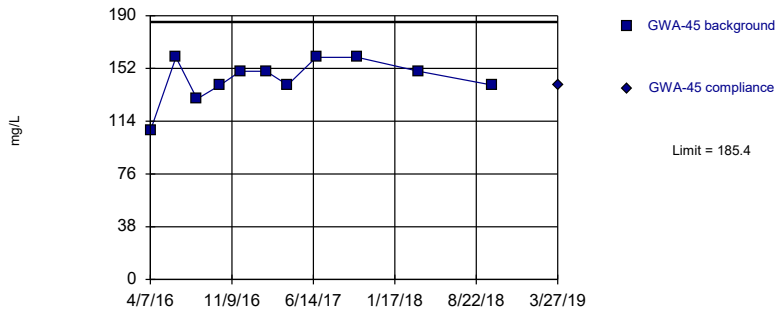
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

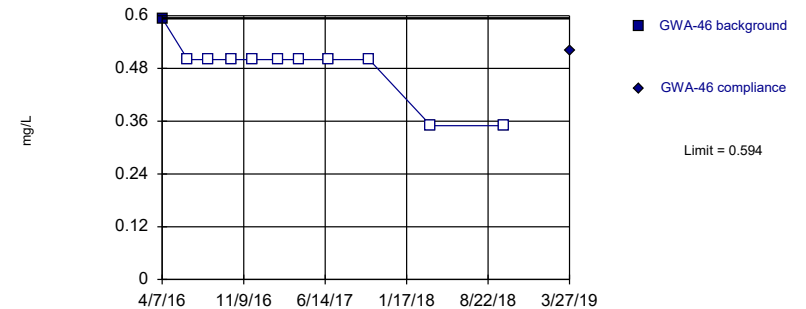
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=144.3, Std. Dev.=15.75, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8611, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit Prediction Limit
Intrawell Non-parametric

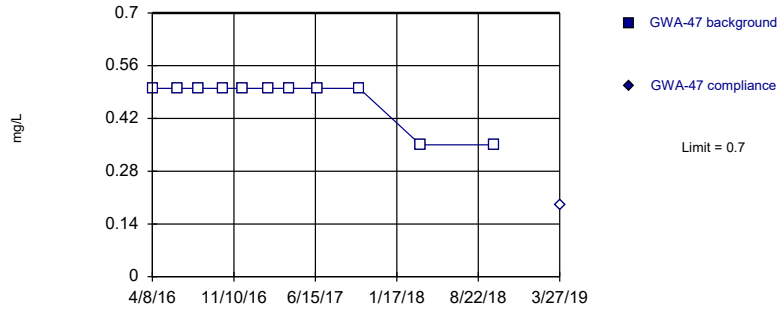


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:21 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

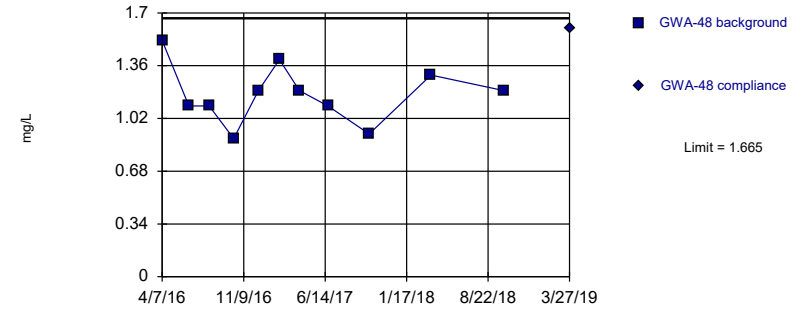


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

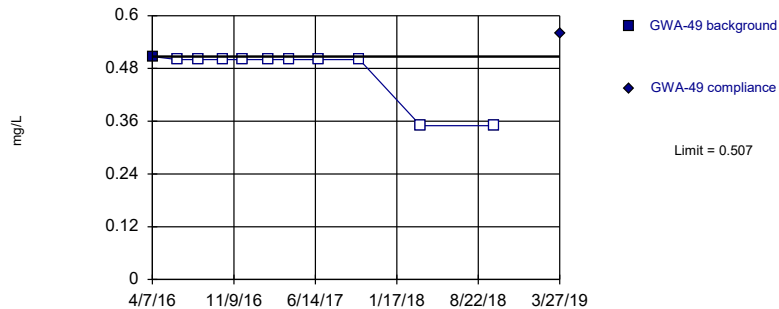


Background Data Summary: Mean=1.176, Std. Dev.=0.1875, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

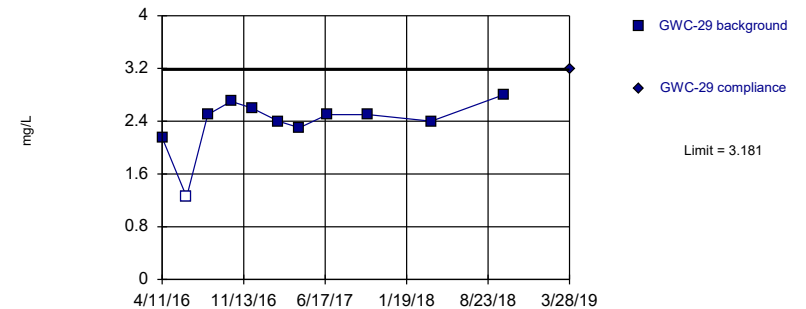


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

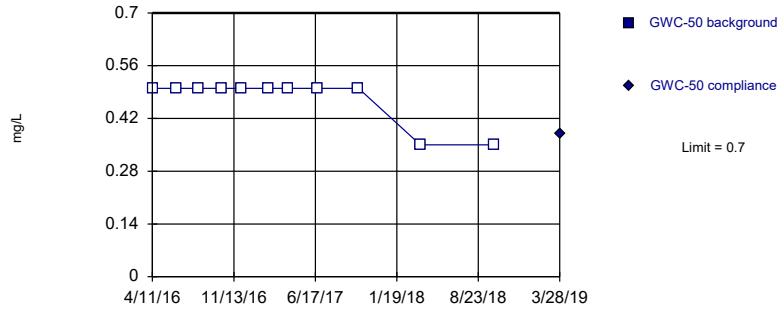


Background Data Summary (based on square transformation): Mean=5.785, Std. Dev.=1.659, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8502, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

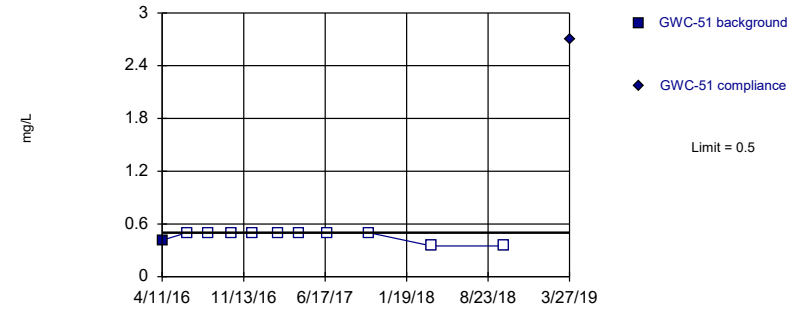


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 11) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

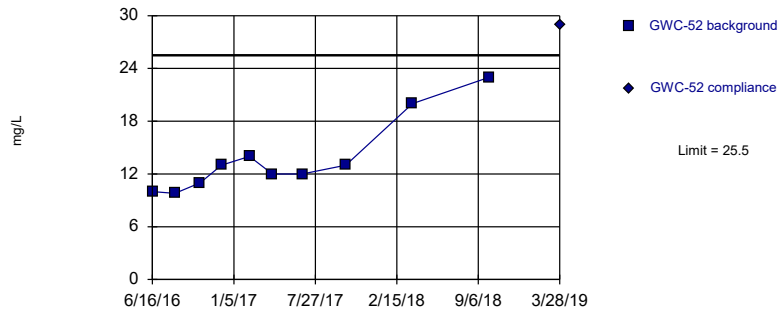


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.02537. Individual comparison alpha = 0.01276 (1 of 2).

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

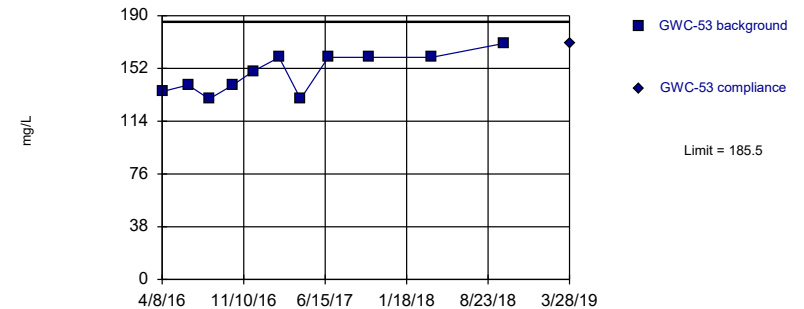


Background Data Summary: Mean=13.78, Std. Dev.=4.335, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8053, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

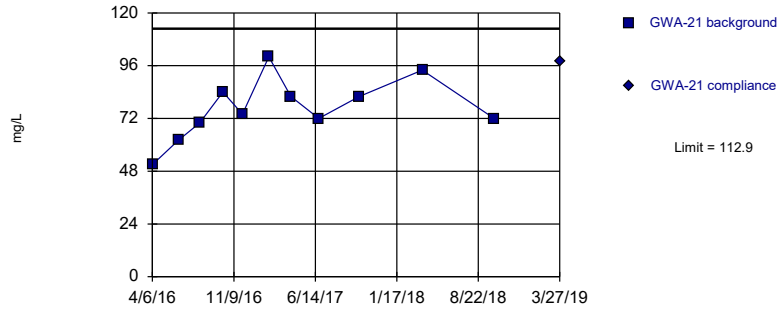


Background Data Summary: Mean=148.7, Std. Dev.=14.12, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Sulfate Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

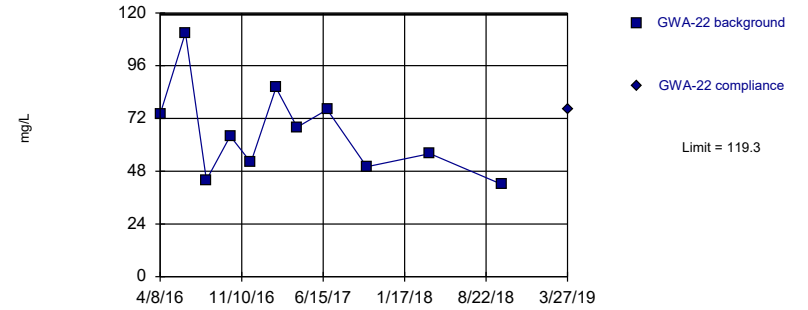


Background Data Summary: Mean=76.64, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

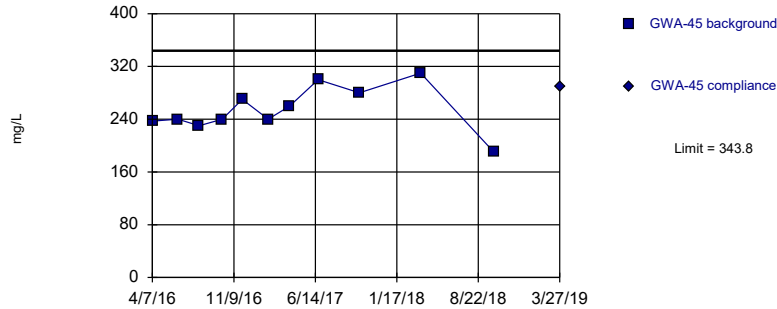


Background Data Summary: Mean=65.73, Std. Dev.=20.51, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.926, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Parametric

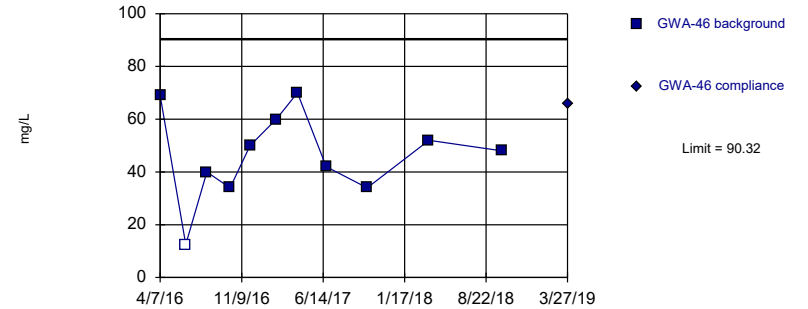


Background Data Summary: Mean=254.3, Std. Dev.=34.3, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

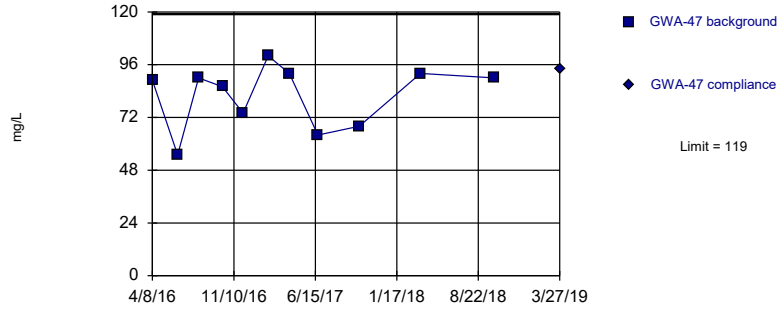
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=46.5, Std. Dev.=16.78, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

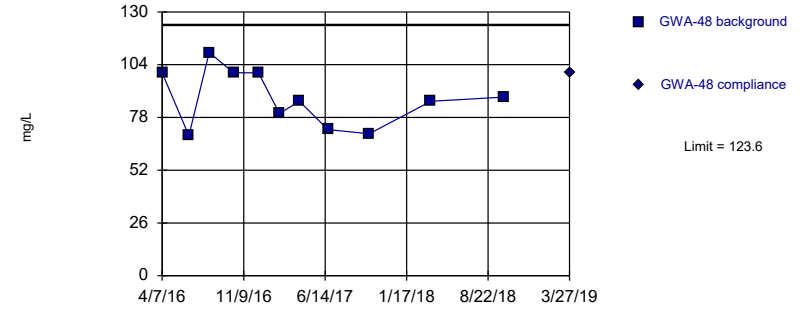
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=81.82, Std. Dev.=14.25, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8889, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

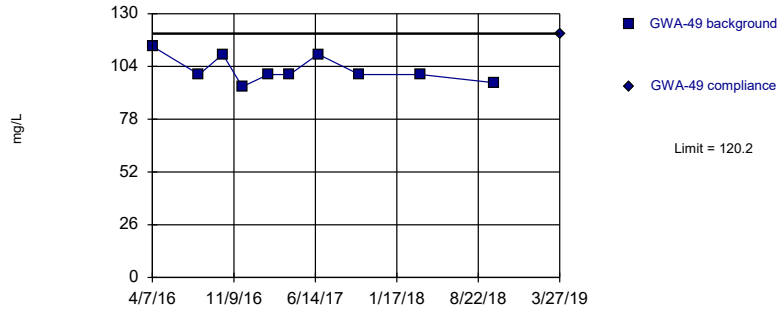
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=87.36, Std. Dev.=13.87, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9268, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

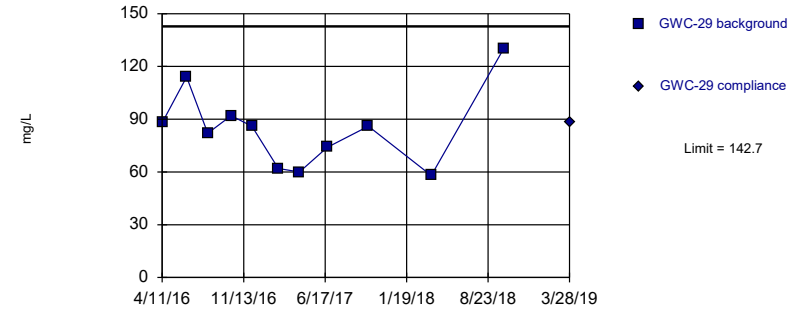
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=102.4, Std. Dev.=6.586, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8509, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

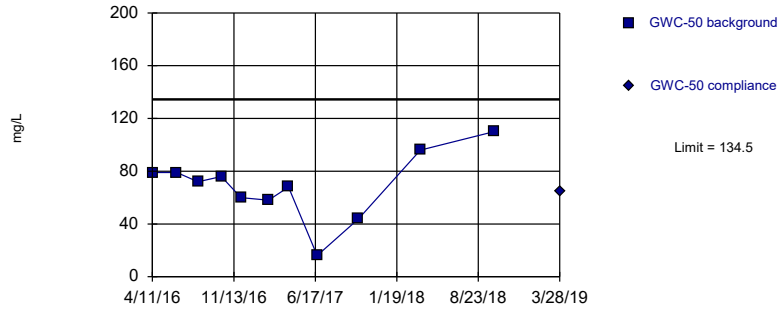
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=84.73, Std. Dev.=22.22, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9168, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

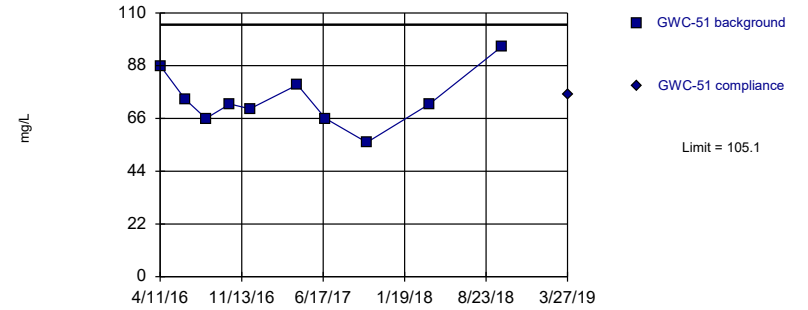
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=68.91, Std. Dev.=25.11, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9626, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

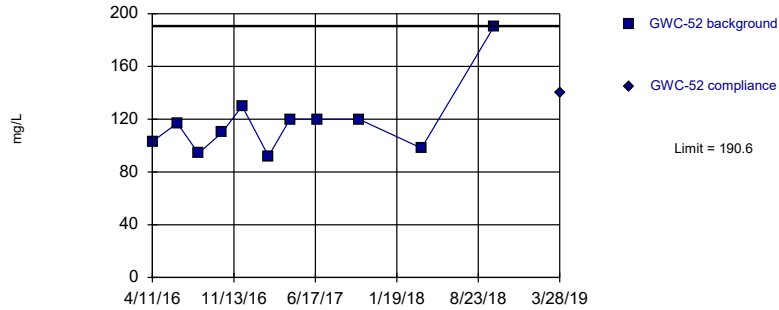
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=74, Std. Dev.=11.51, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9518, critical = 0.781. Kappa = 2.703 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

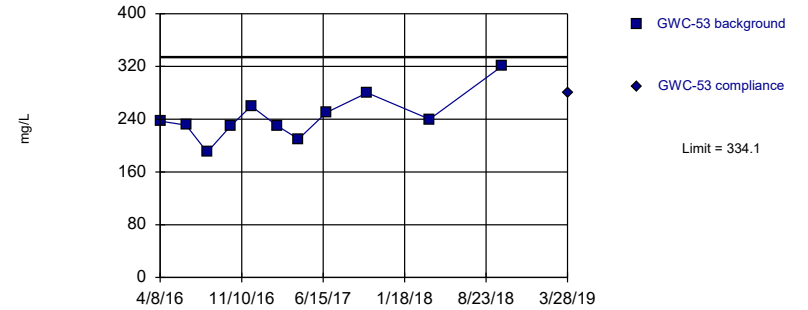
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=10.79, Std. Dev.=1.155, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8156, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

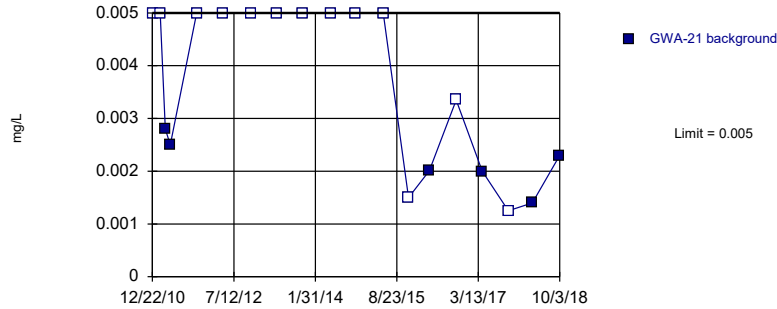
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=243.5, Std. Dev.=34.73, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9367, critical = 0.792. Kappa = 2.611 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Total Dissolved Solids Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

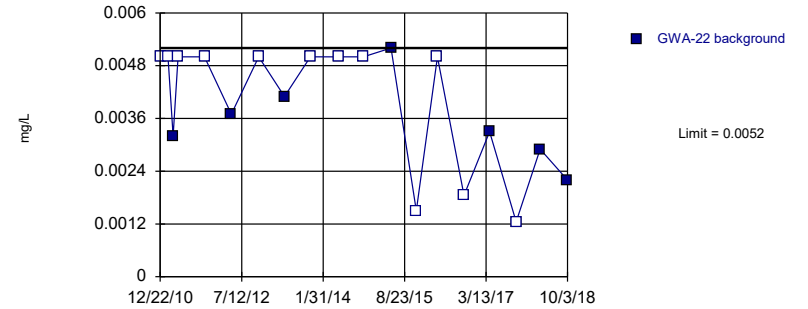
Prediction Limit
Intrawell Non-parametric, GWA-21 (bg)



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 68.42% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2). Assumes 1 future value.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Prediction Limit
Intrawell Non-parametric, GWA-22 (bg)

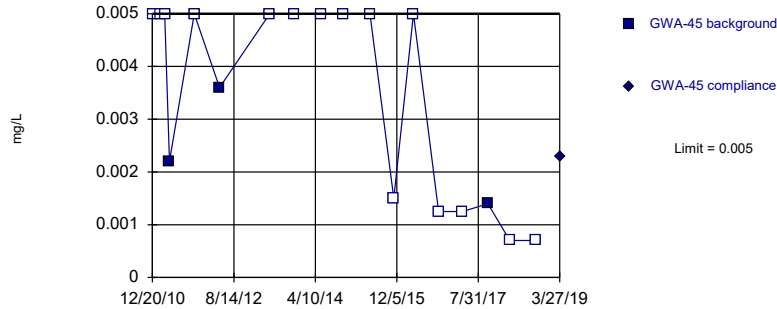


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2). Assumes 1 future value.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

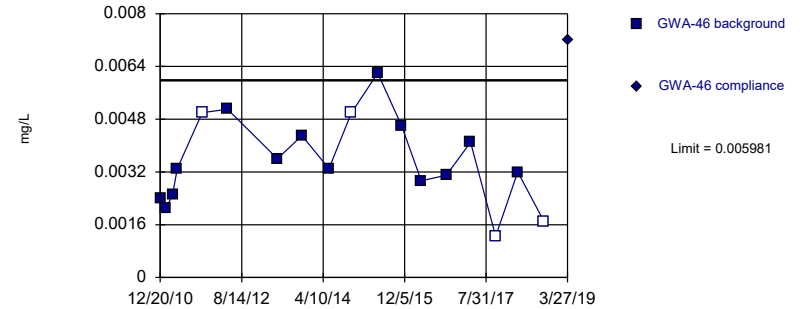


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

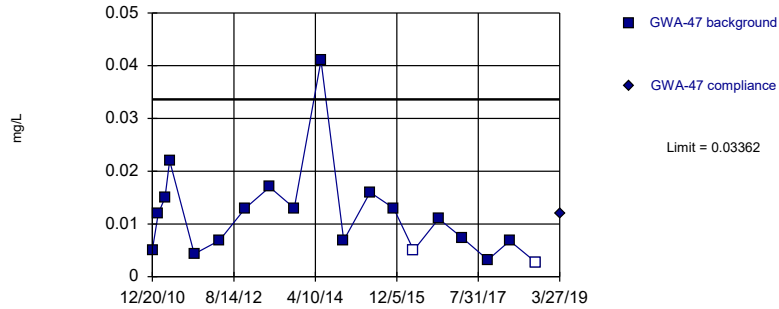


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00344, Std. Dev.=0.001121, n=18, 22.22% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

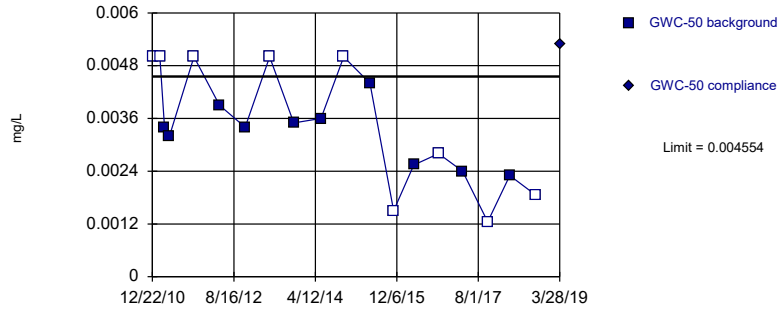
Within Limit

Prediction Limit
Intrawell Parametric



Exceeds Limit

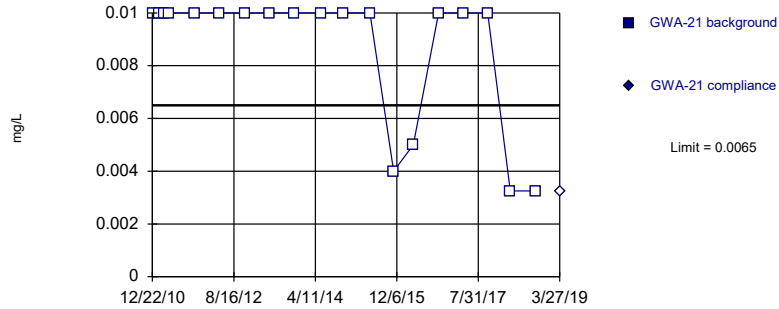
Prediction Limit
Intrawell Parametric



Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



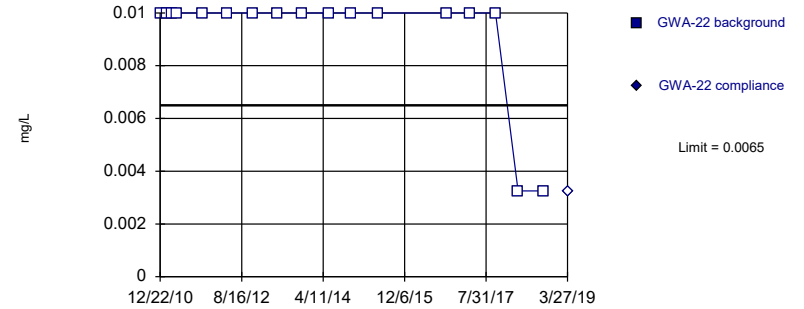
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



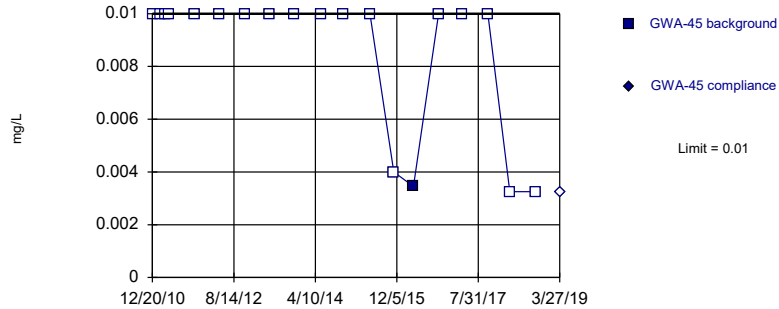
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



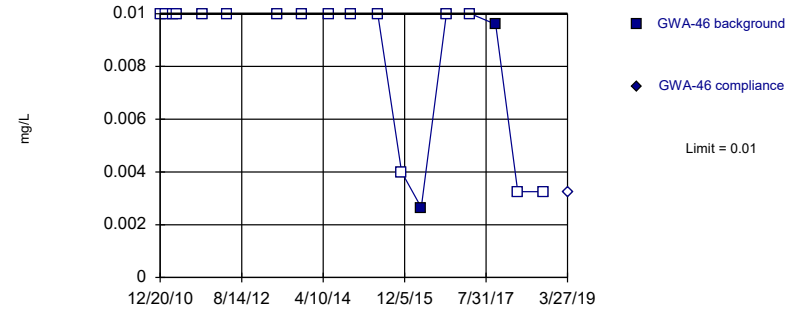
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sanitas™ v.9.6.20 For the statistical analyses of ground water by Golder Associates only. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

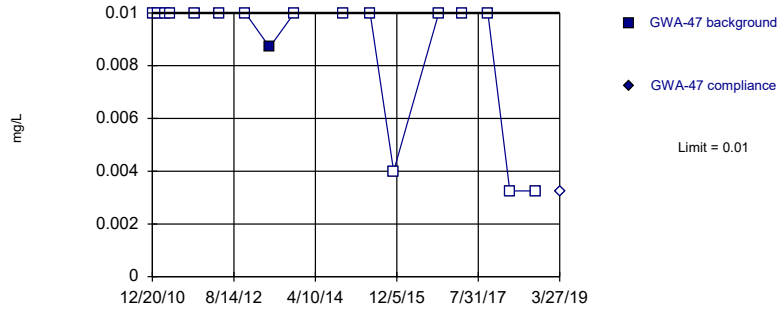


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

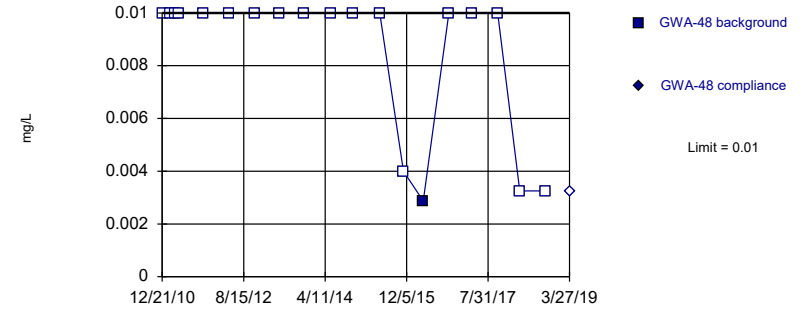


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

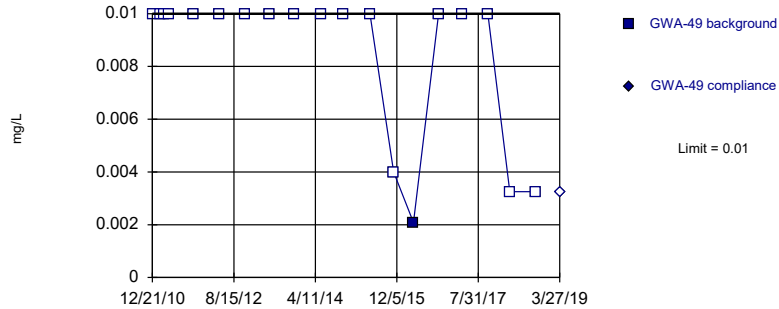


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

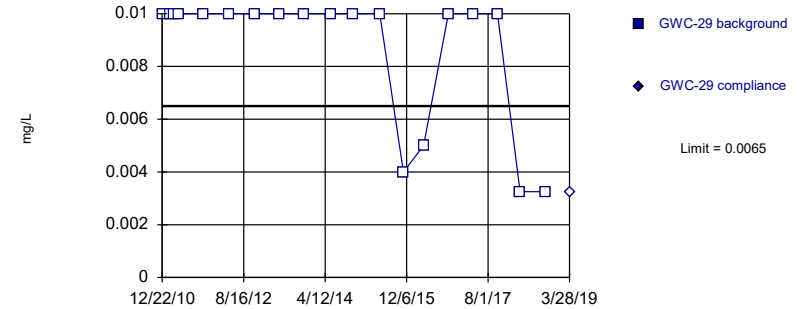


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

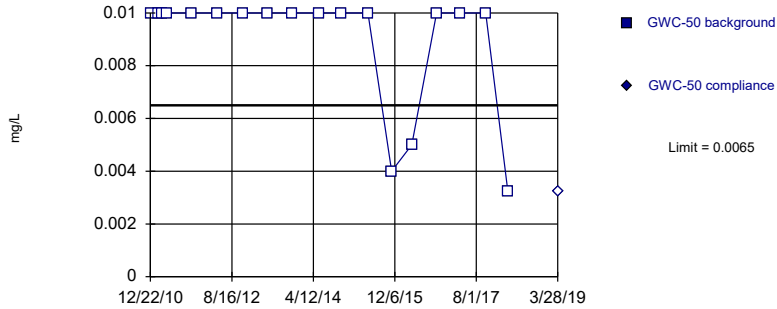


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 19) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

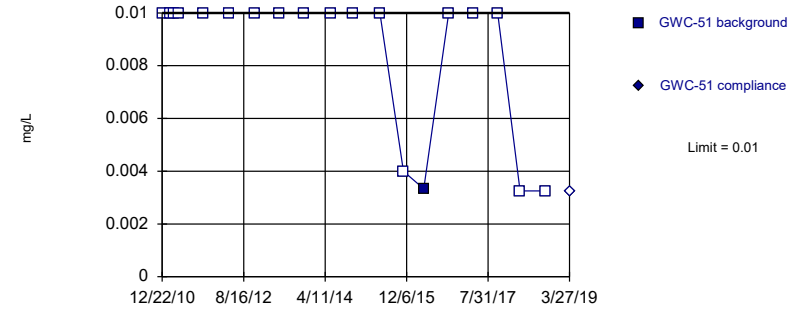


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

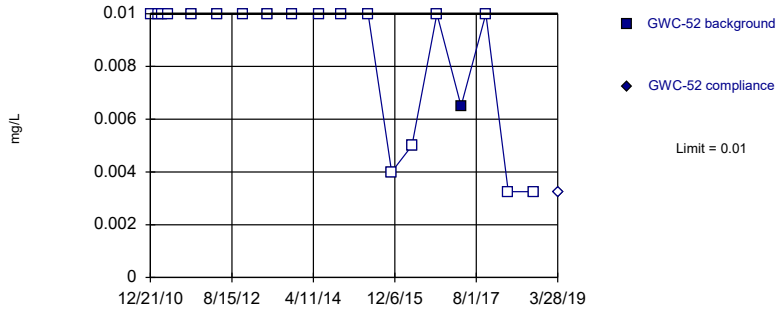


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

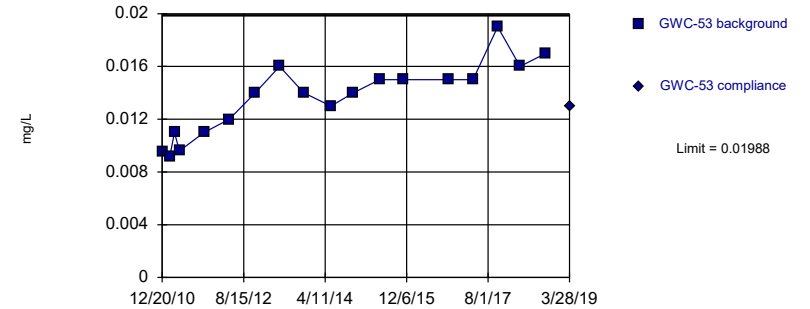


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 94.74% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

Within Limit

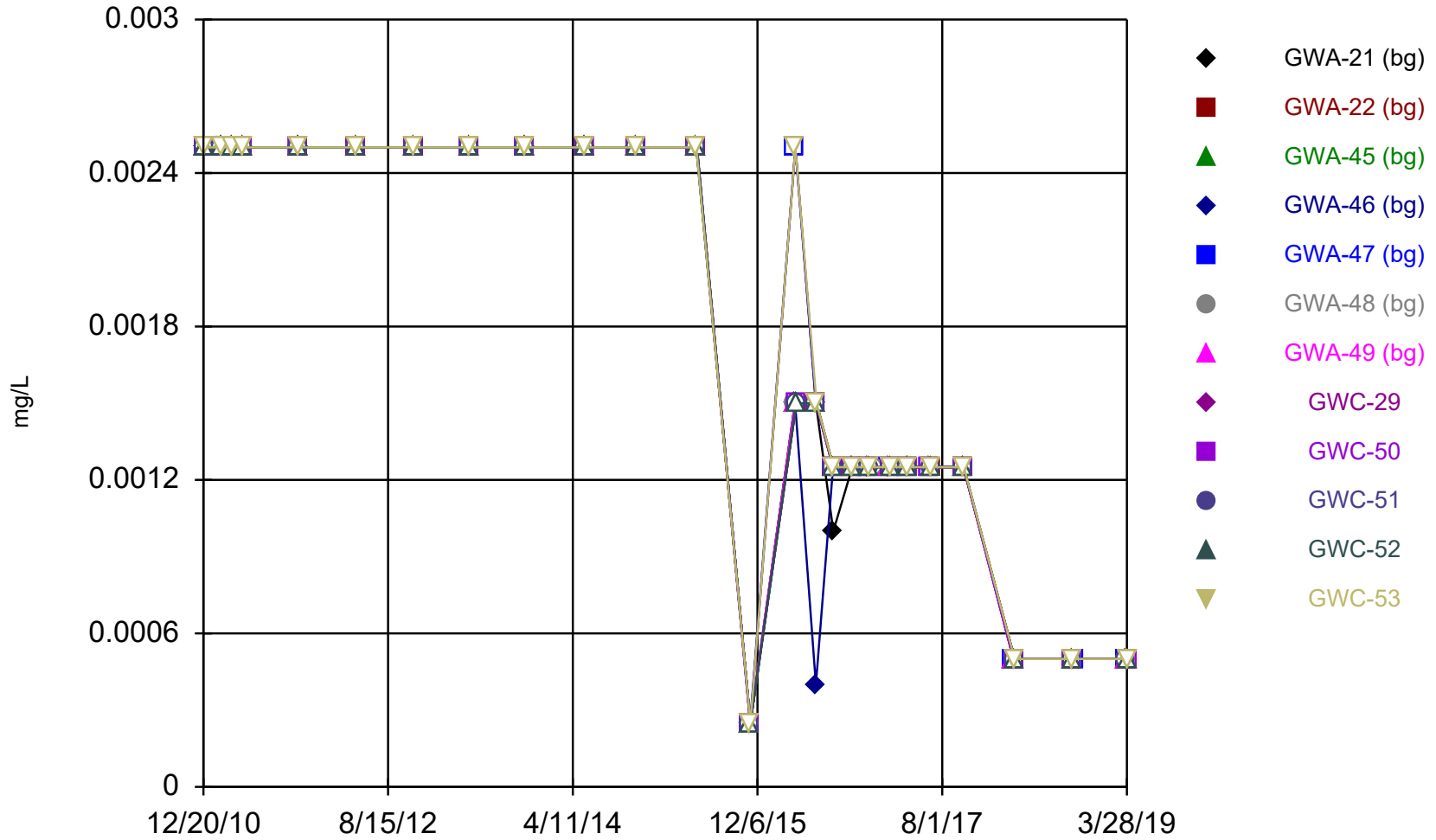
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.01363, Std. Dev.=0.002756, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.858. Kappa = 2.268 (c=11, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009574.

Constituent: Zinc, Total Analysis Run 8/8/2019 12:22 PM View: Intra PLs
Scherer Client: Golder Associates Data: Scherer PAC CCR

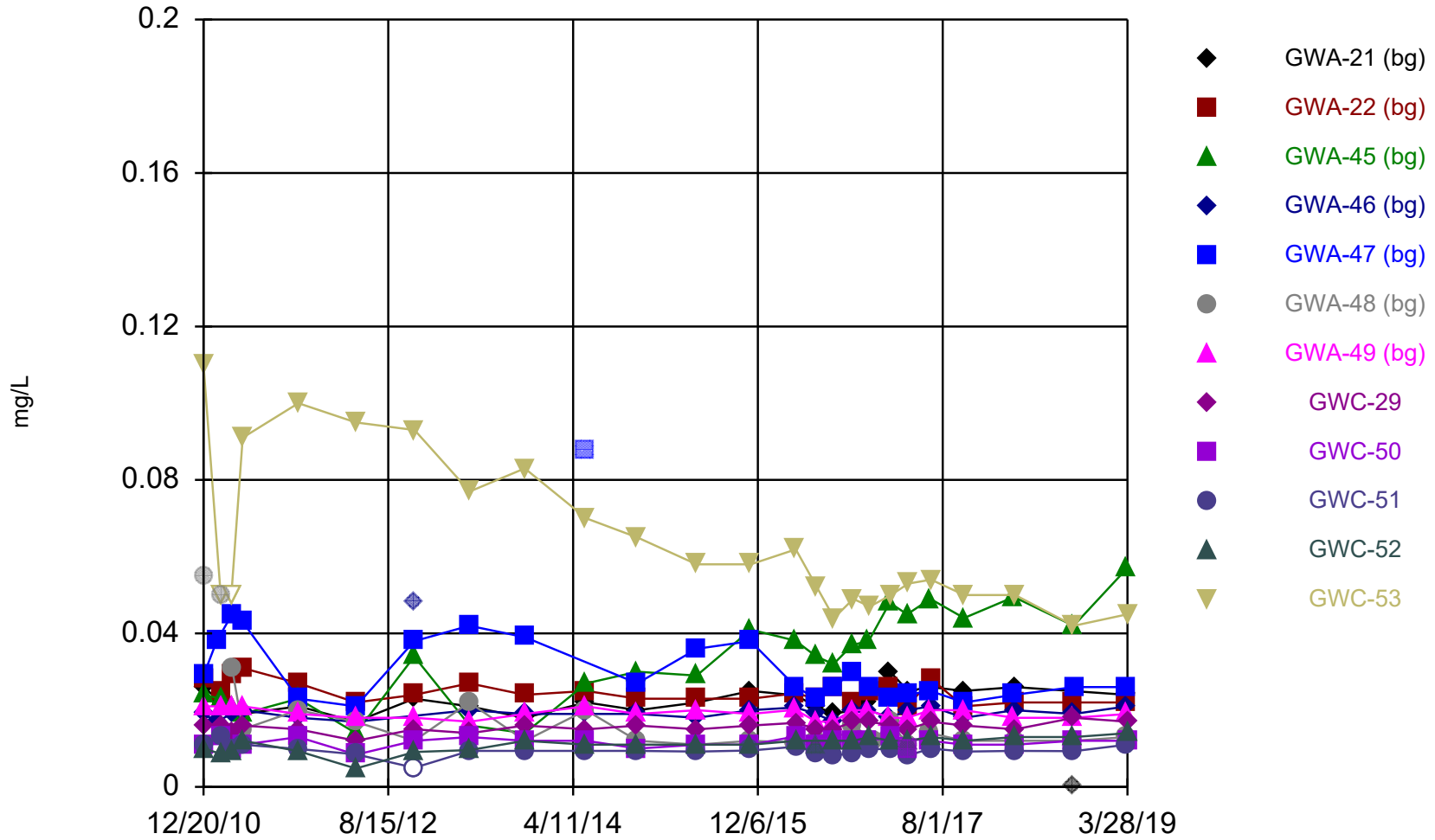
Time Series



Constituent: Antimony, Total Analysis Run 8/8/2019 11:25 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

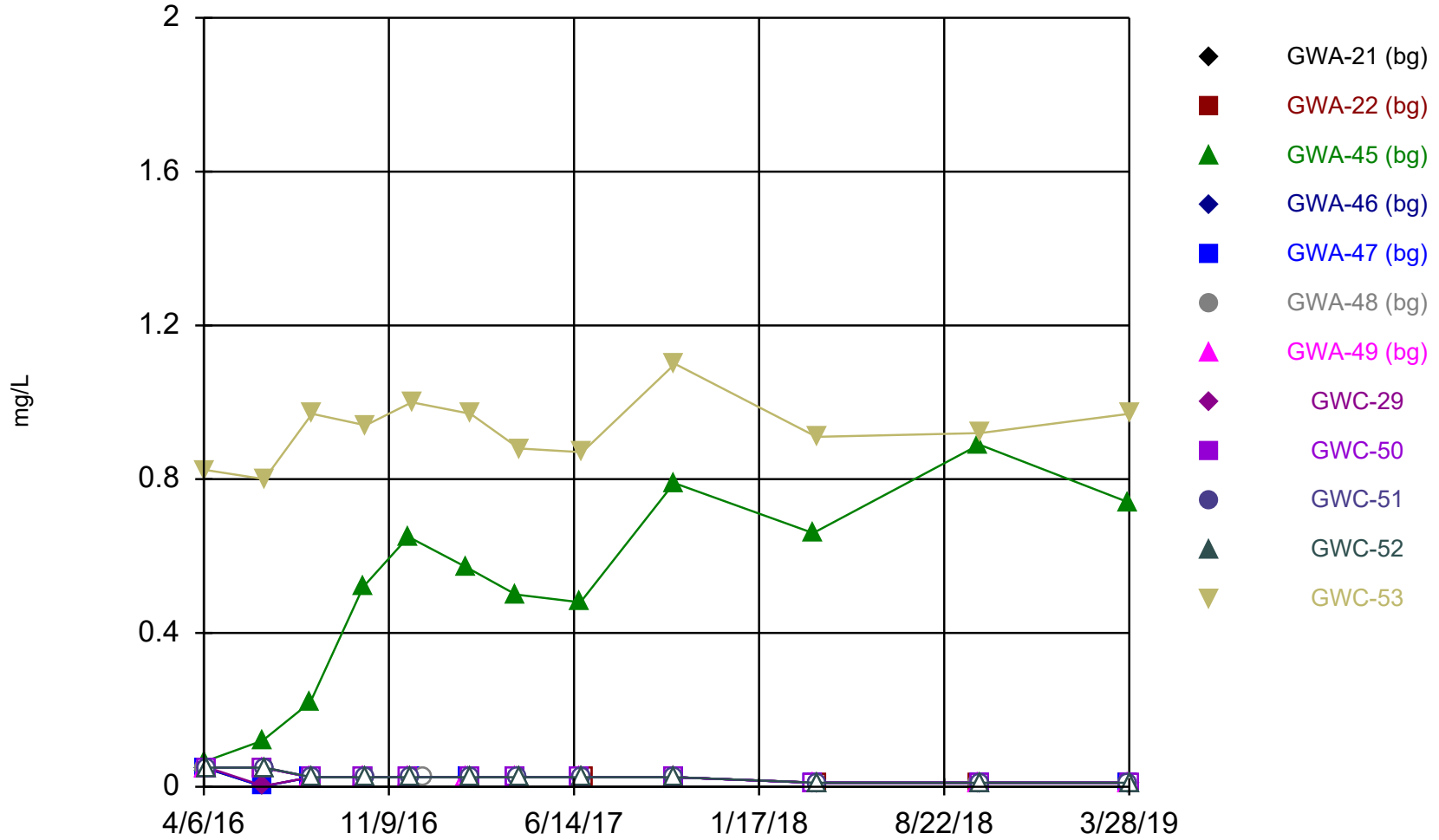
Time Series



Constituent: Barium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

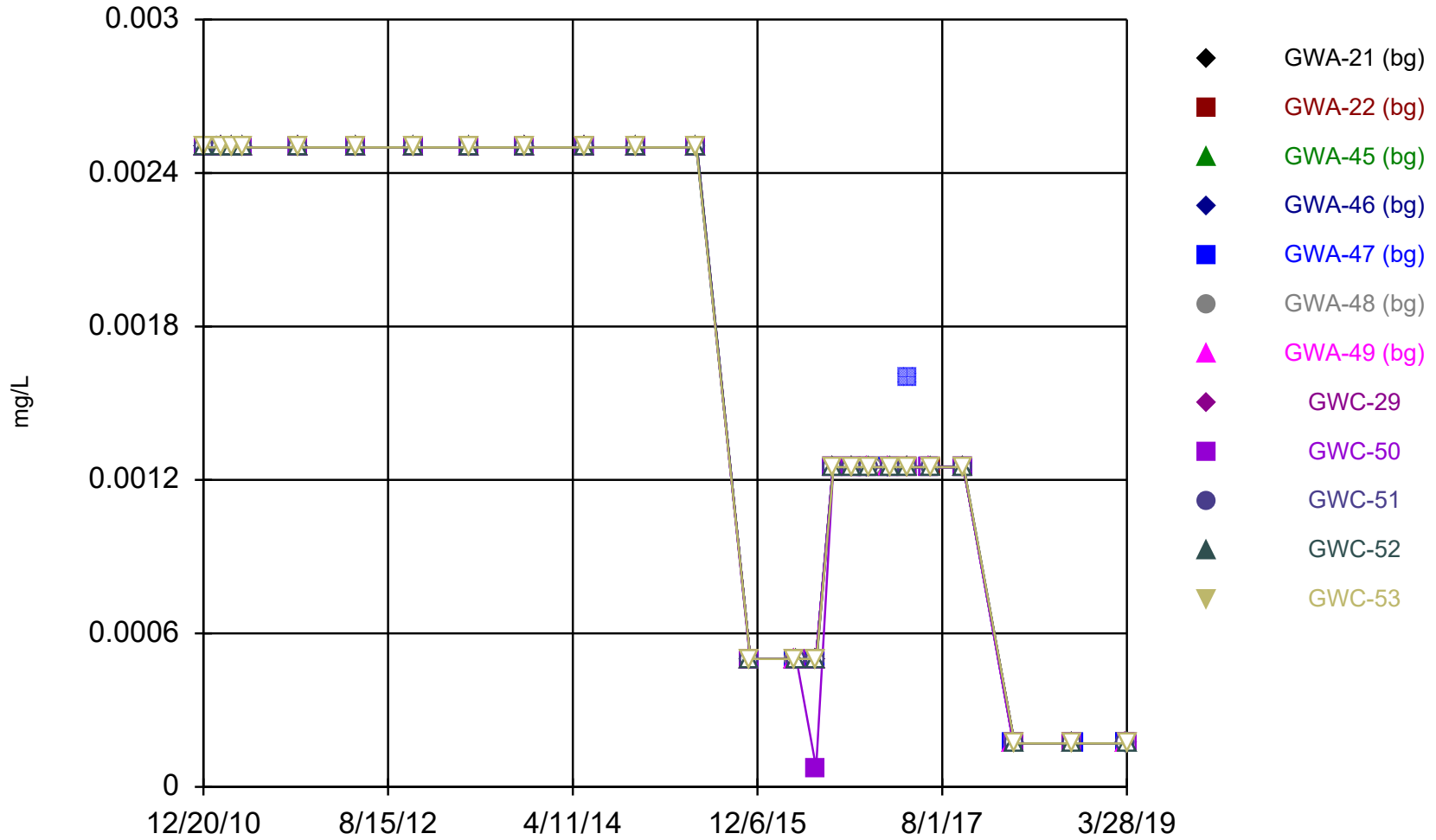
Scherer Client: Golder Associates Data: Scherer PAC CCR

Time Series



Constituent: Boron Analysis Run 8/8/2019 11:26 AM View: State LF Constituents
Scherer Client: Golder Associates Data: Scherer PAC CCR

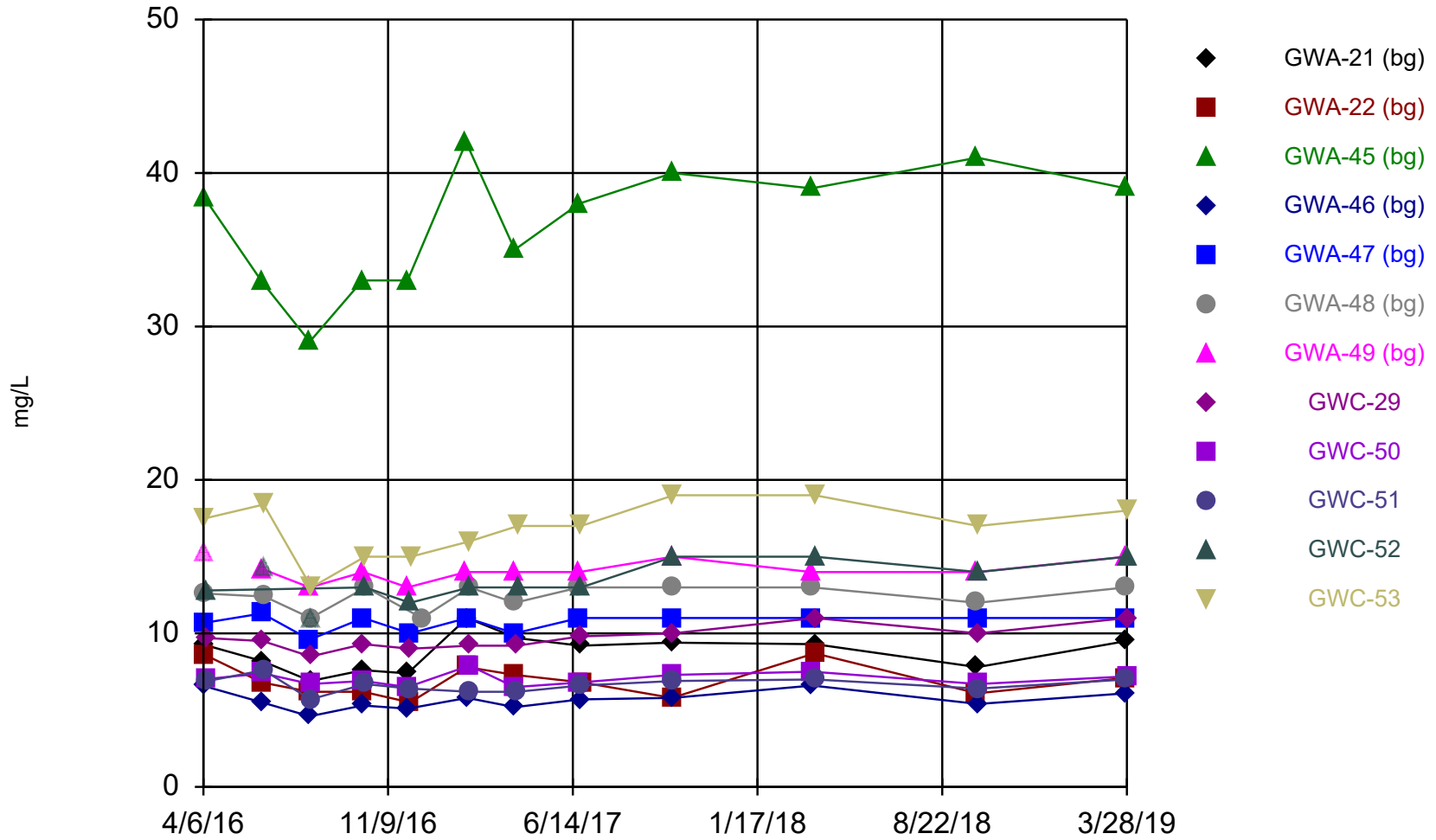
Time Series



Constituent: Cadmium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

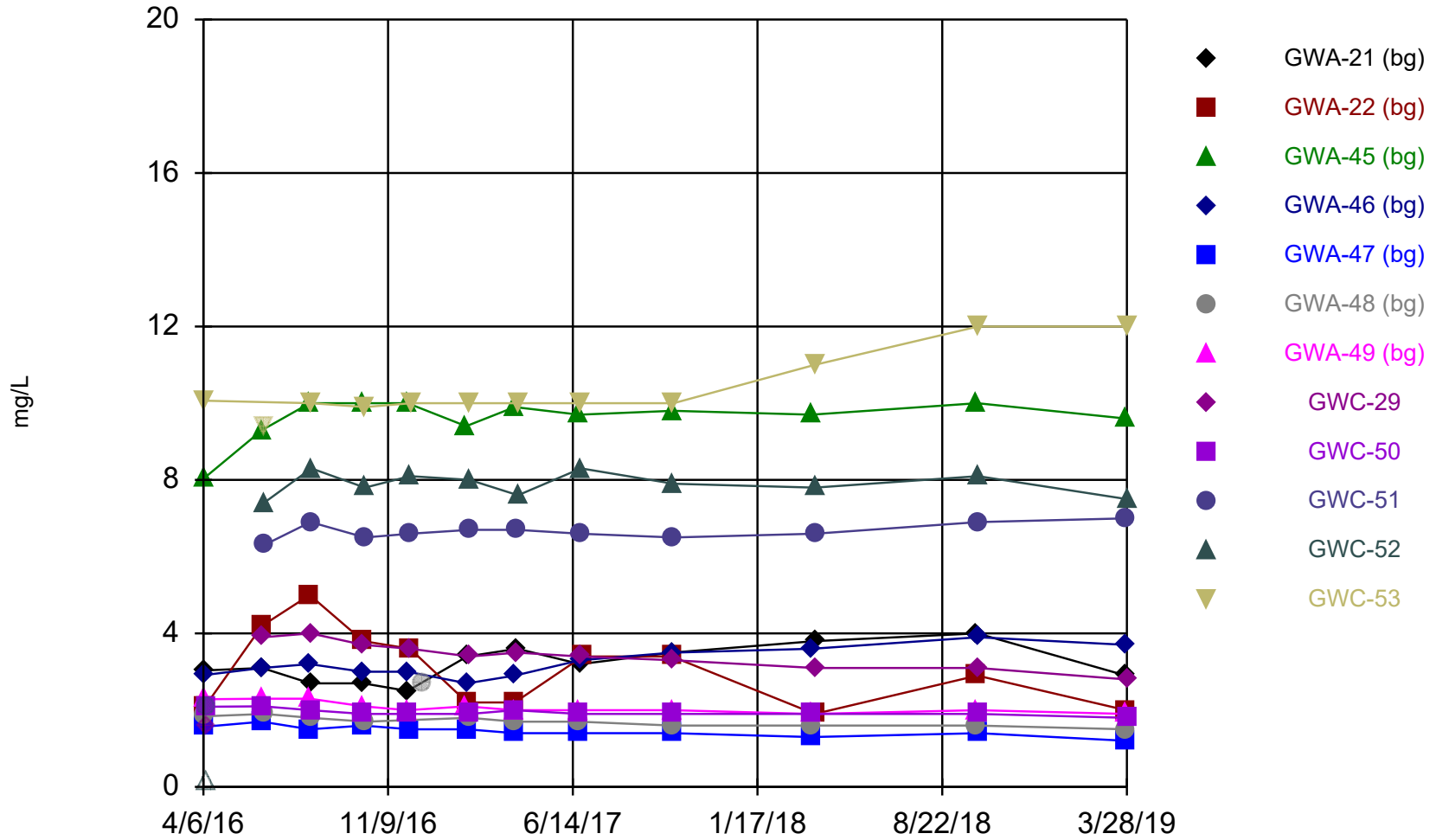
Time Series



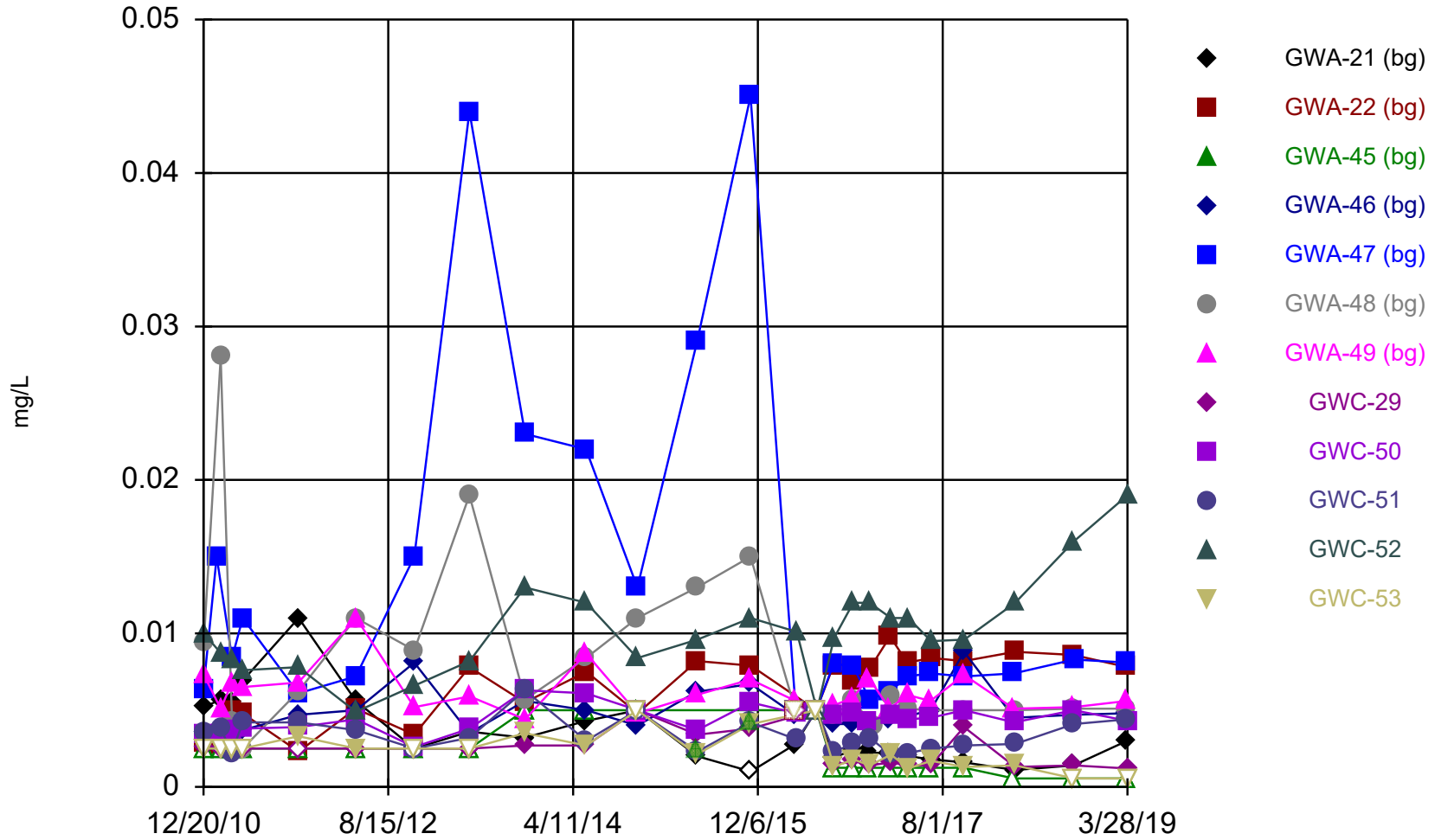
Constituent: Calcium Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

Time Series



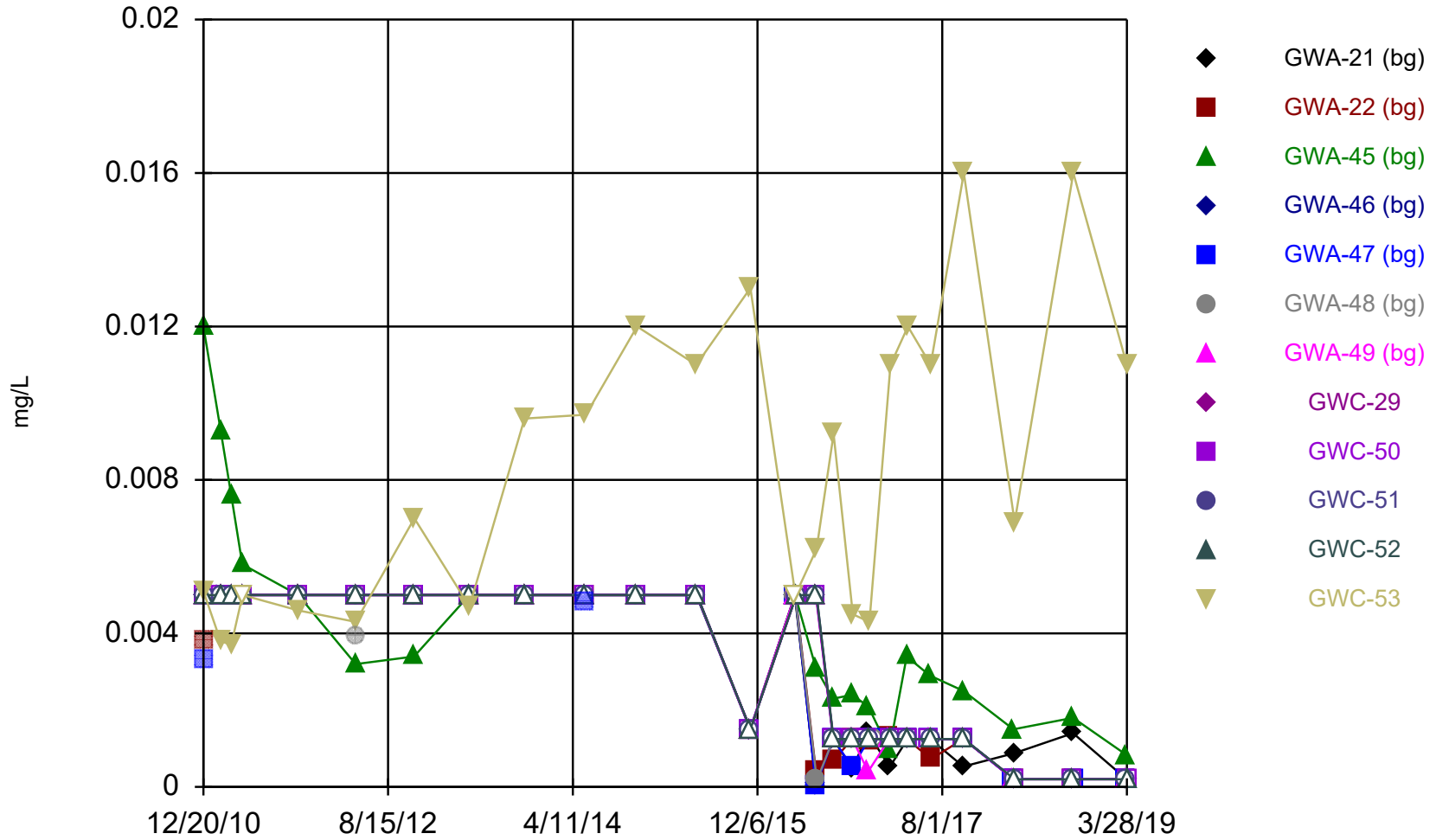
Time Series



Constituent: Chromium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

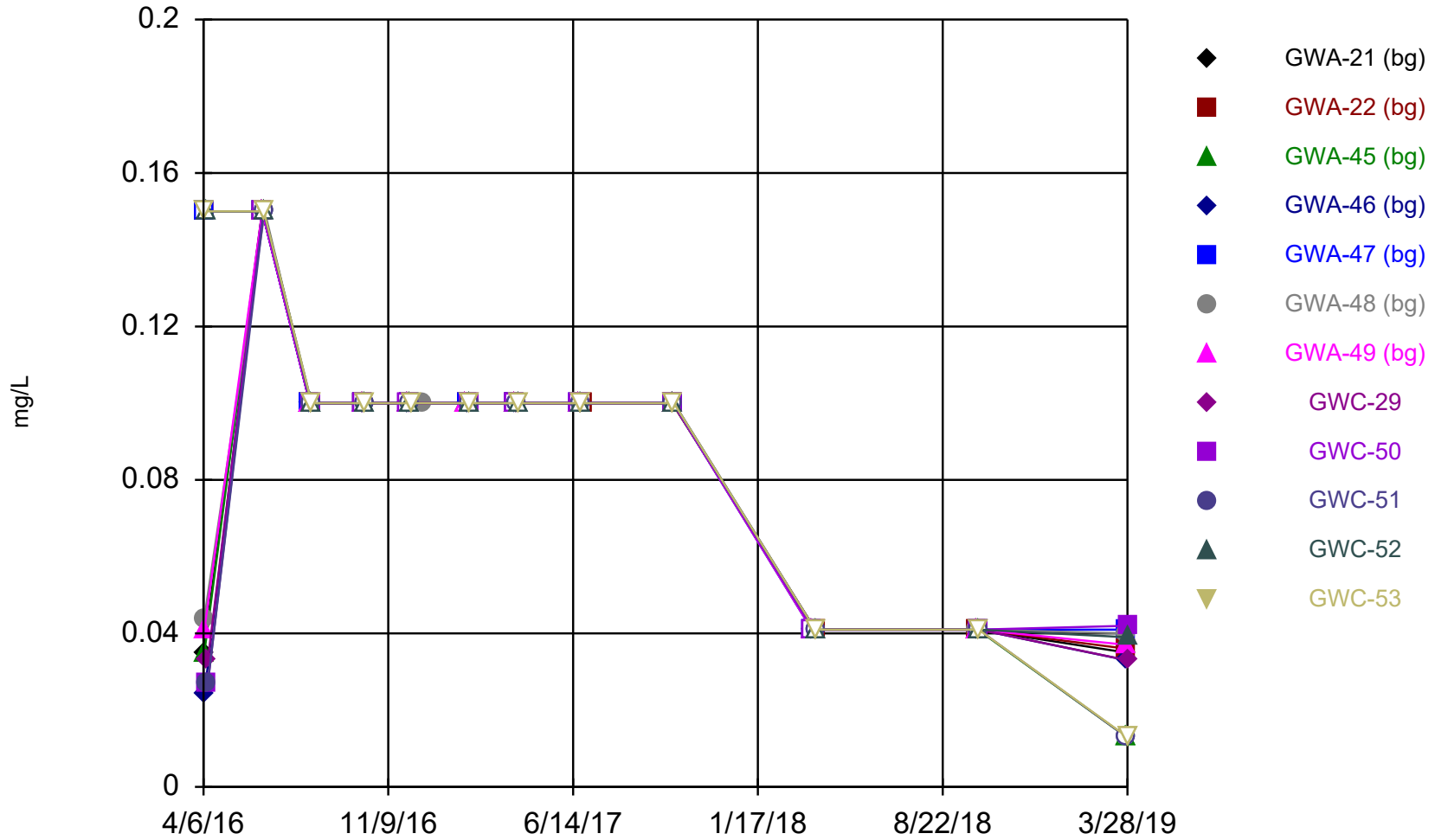
Time Series



Constituent: Cobalt, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

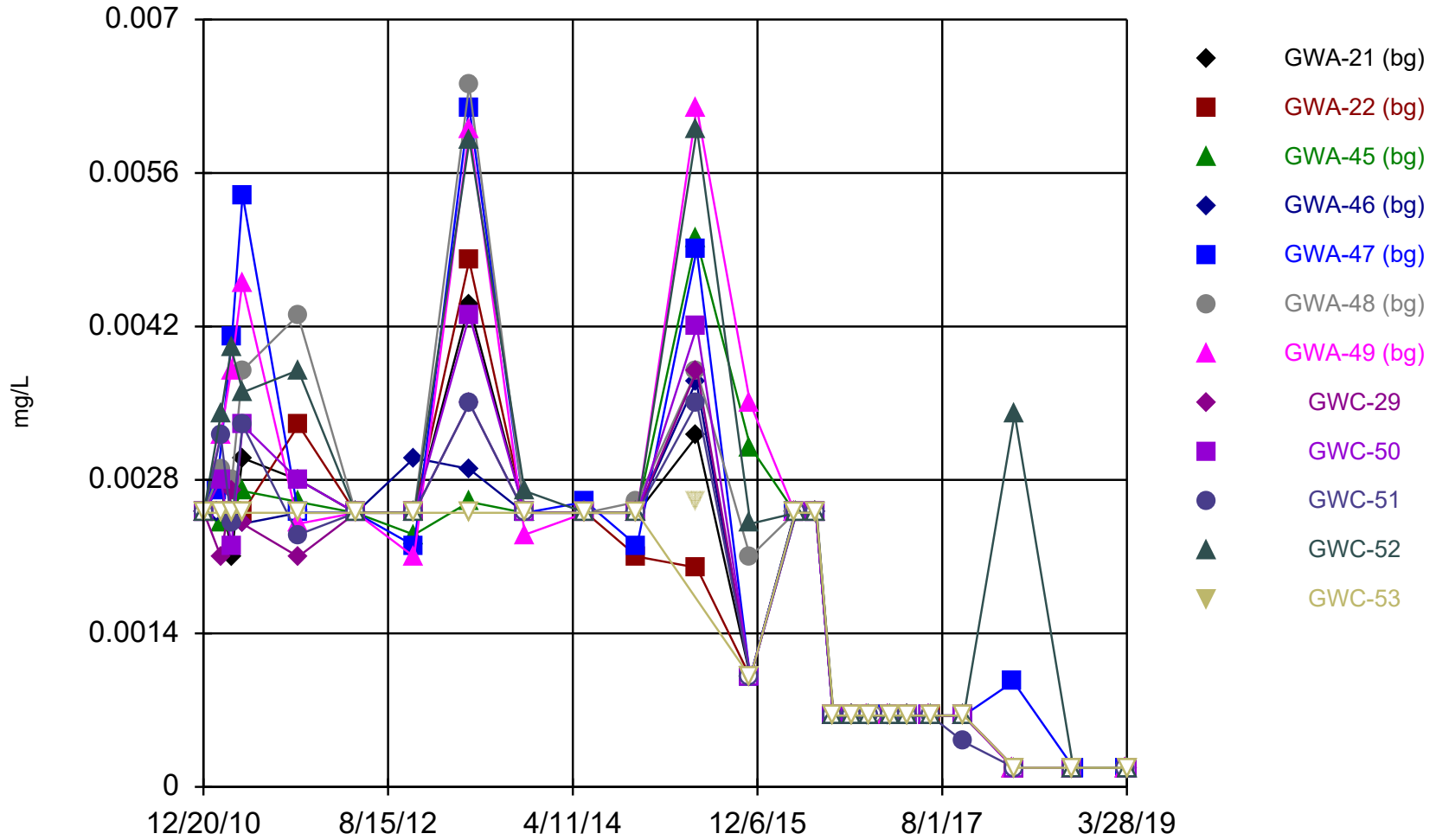
Time Series



Constituent: Fluoride Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

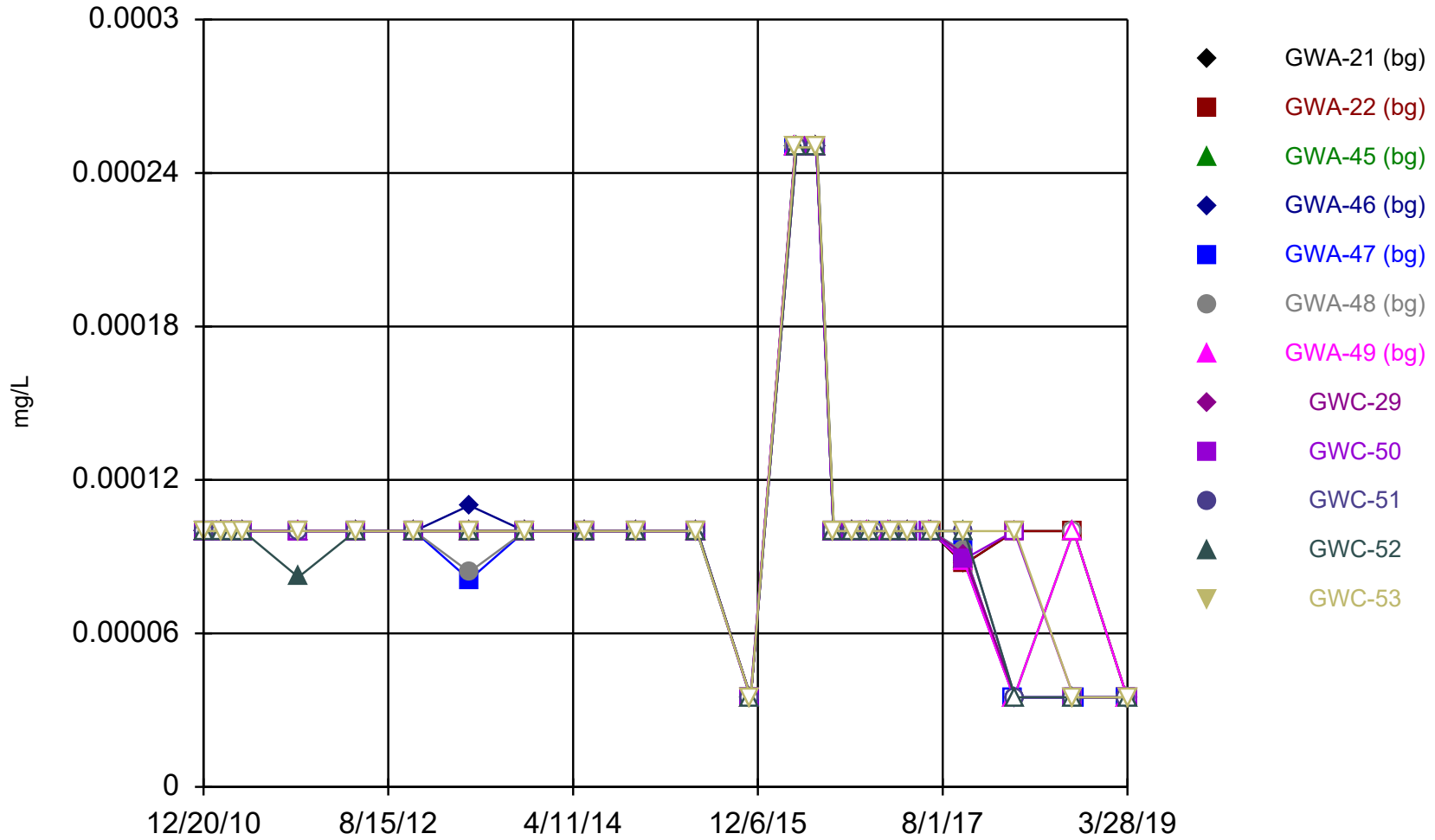
Time Series



Constituent: Lead, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

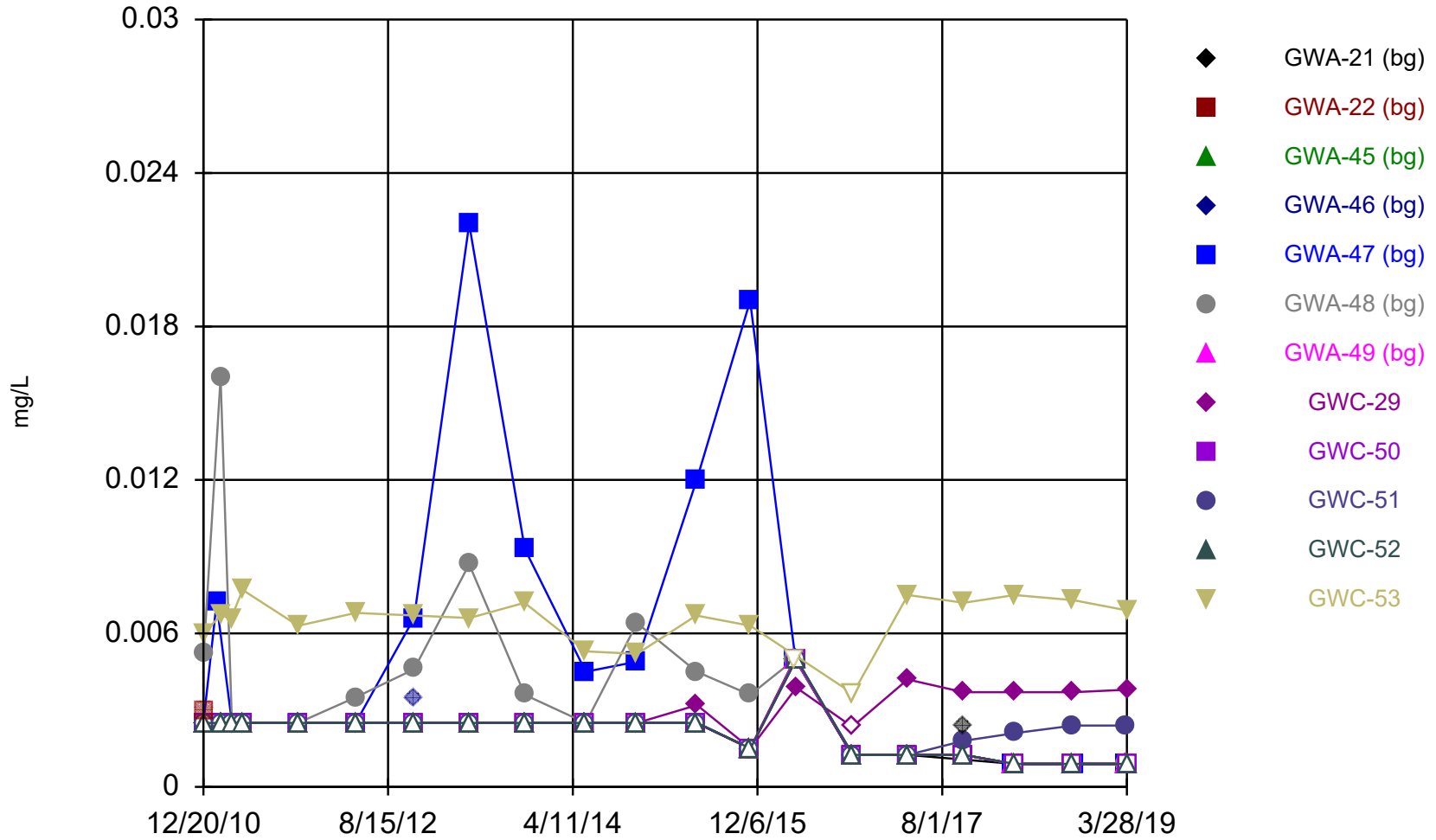
Time Series



Constituent: Mercury, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

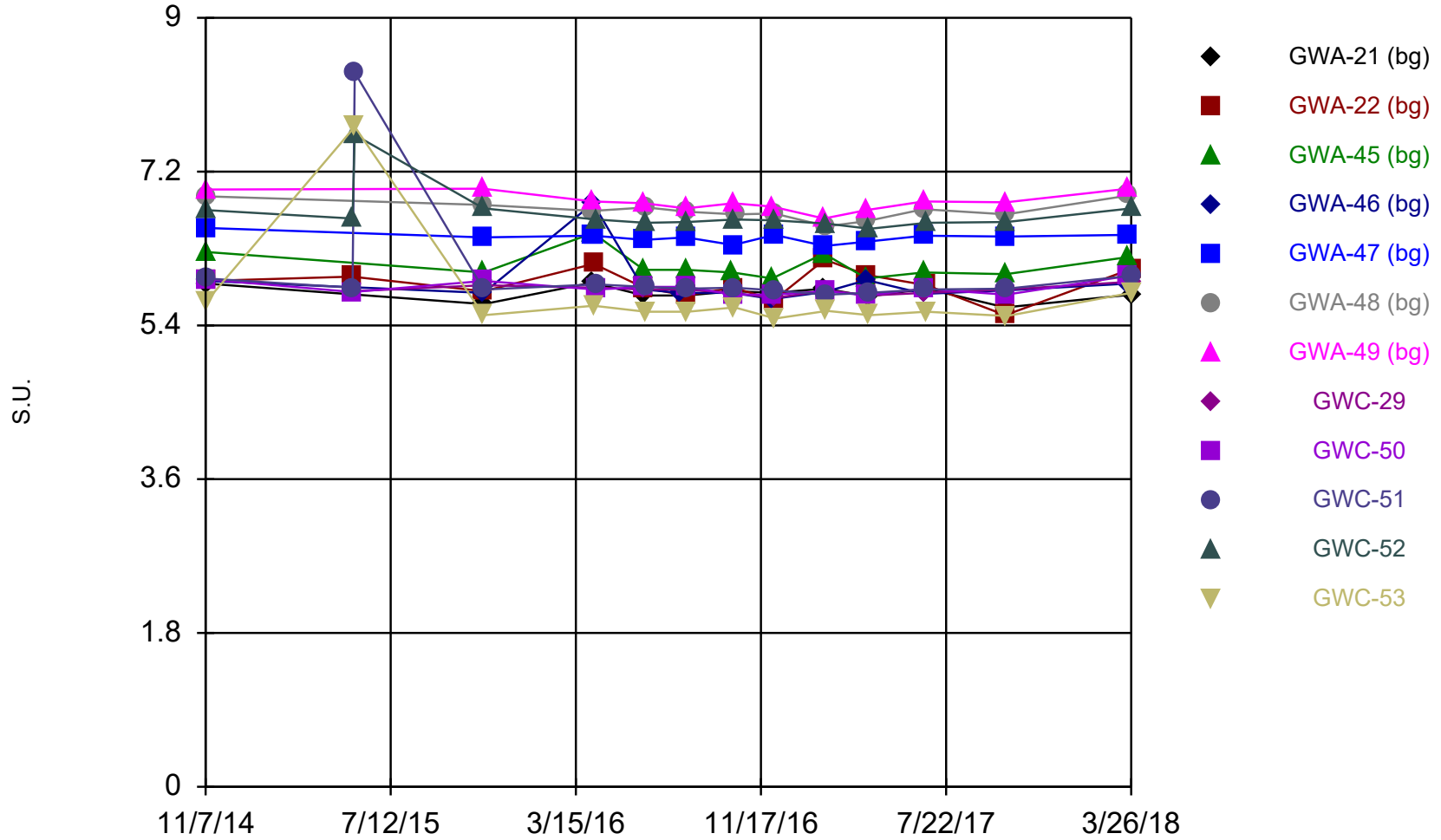
Time Series



Constituent: Nickel, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

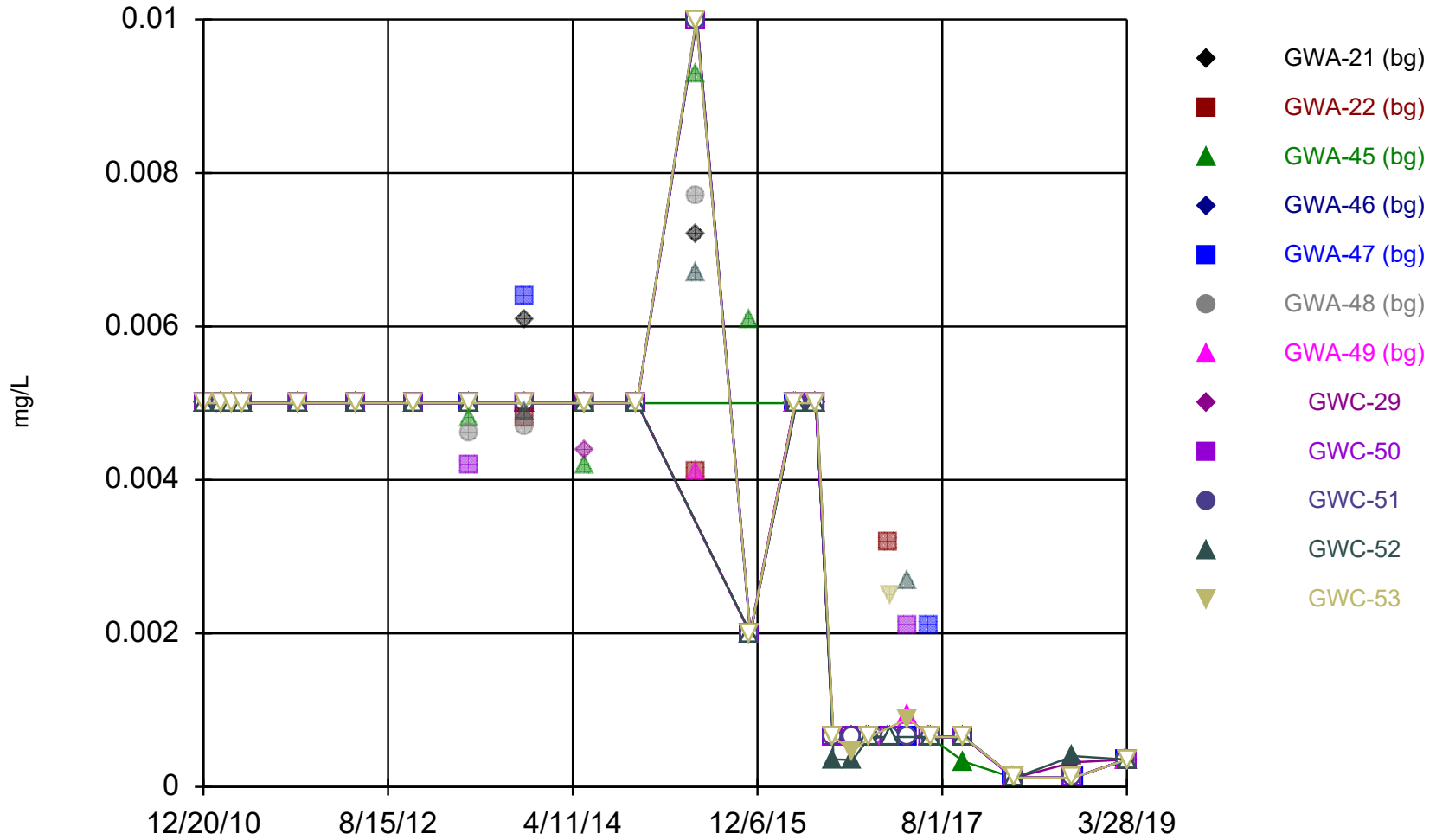
Time Series



Constituent: pH Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

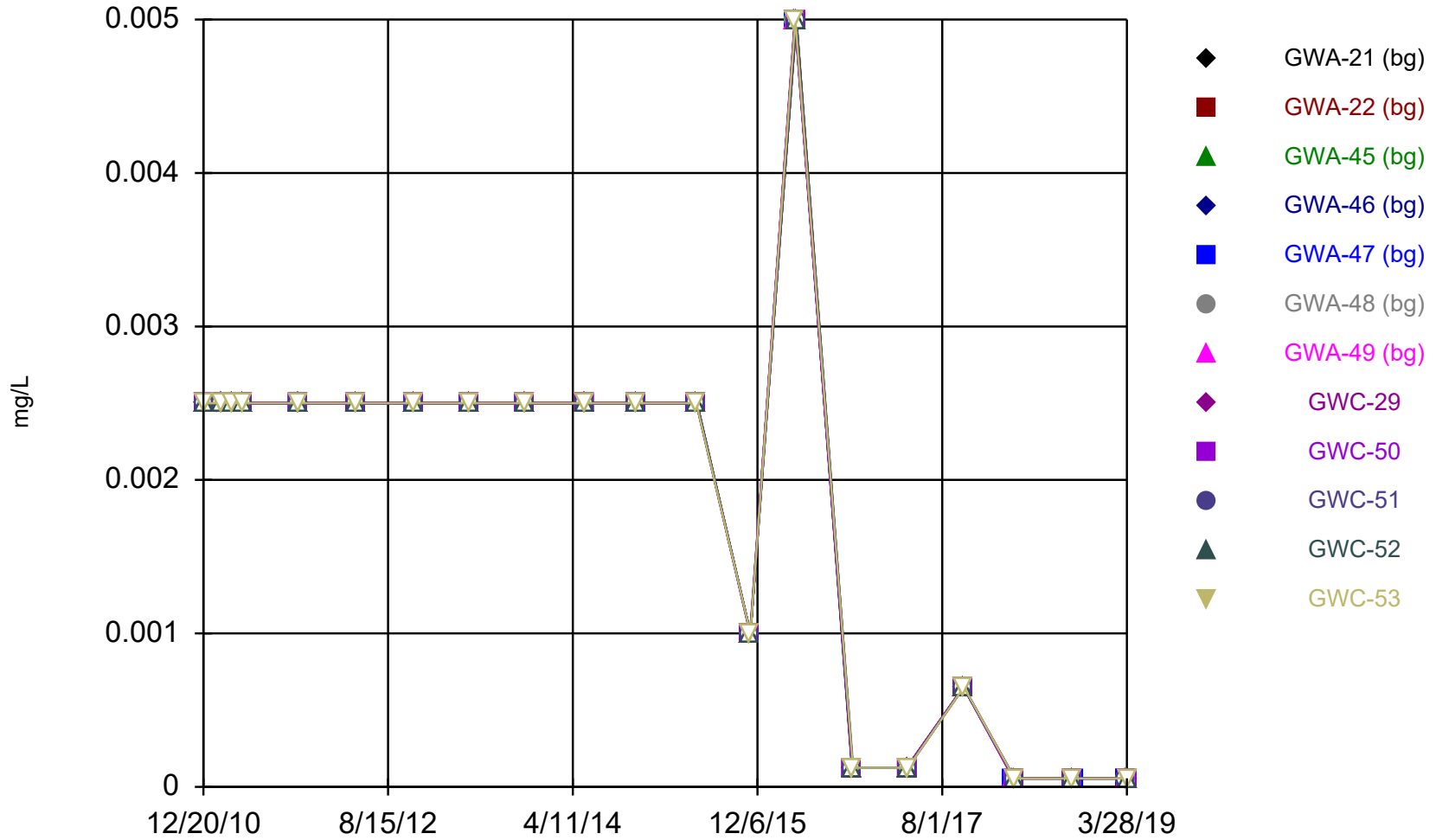
Time Series



Constituent: Selenium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

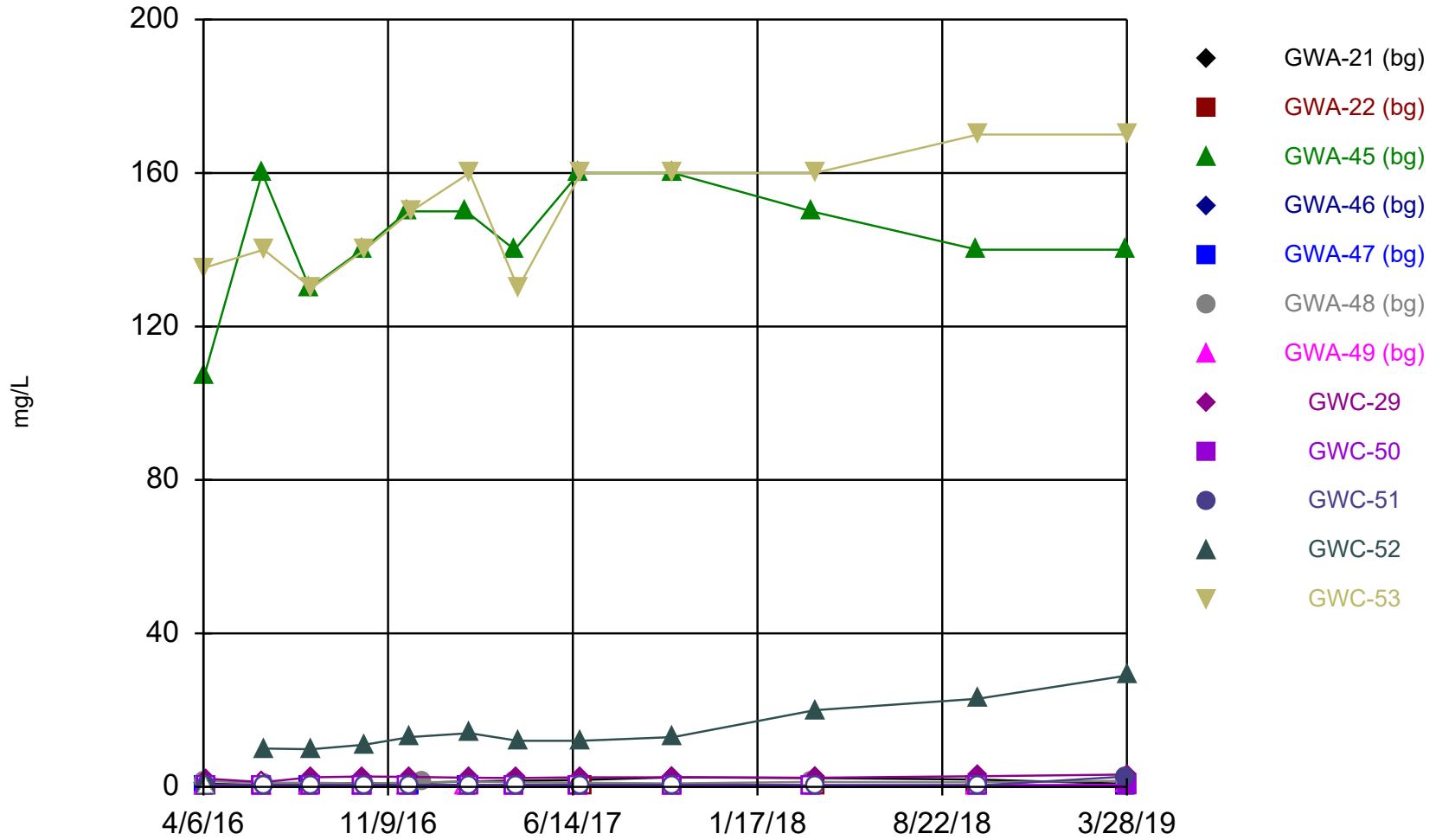
Time Series



Constituent: Silver, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

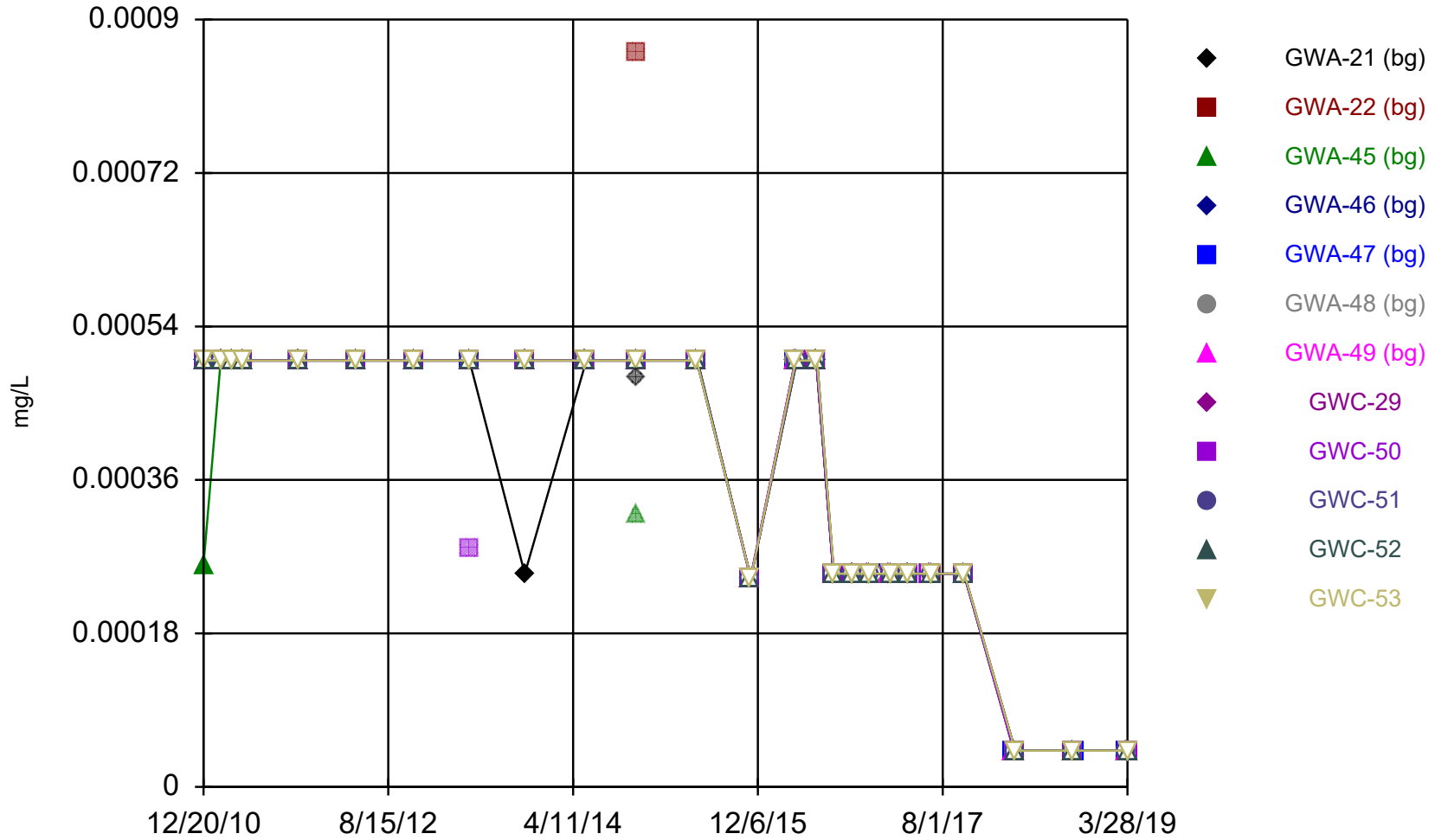
Time Series



Constituent: Sulfate Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

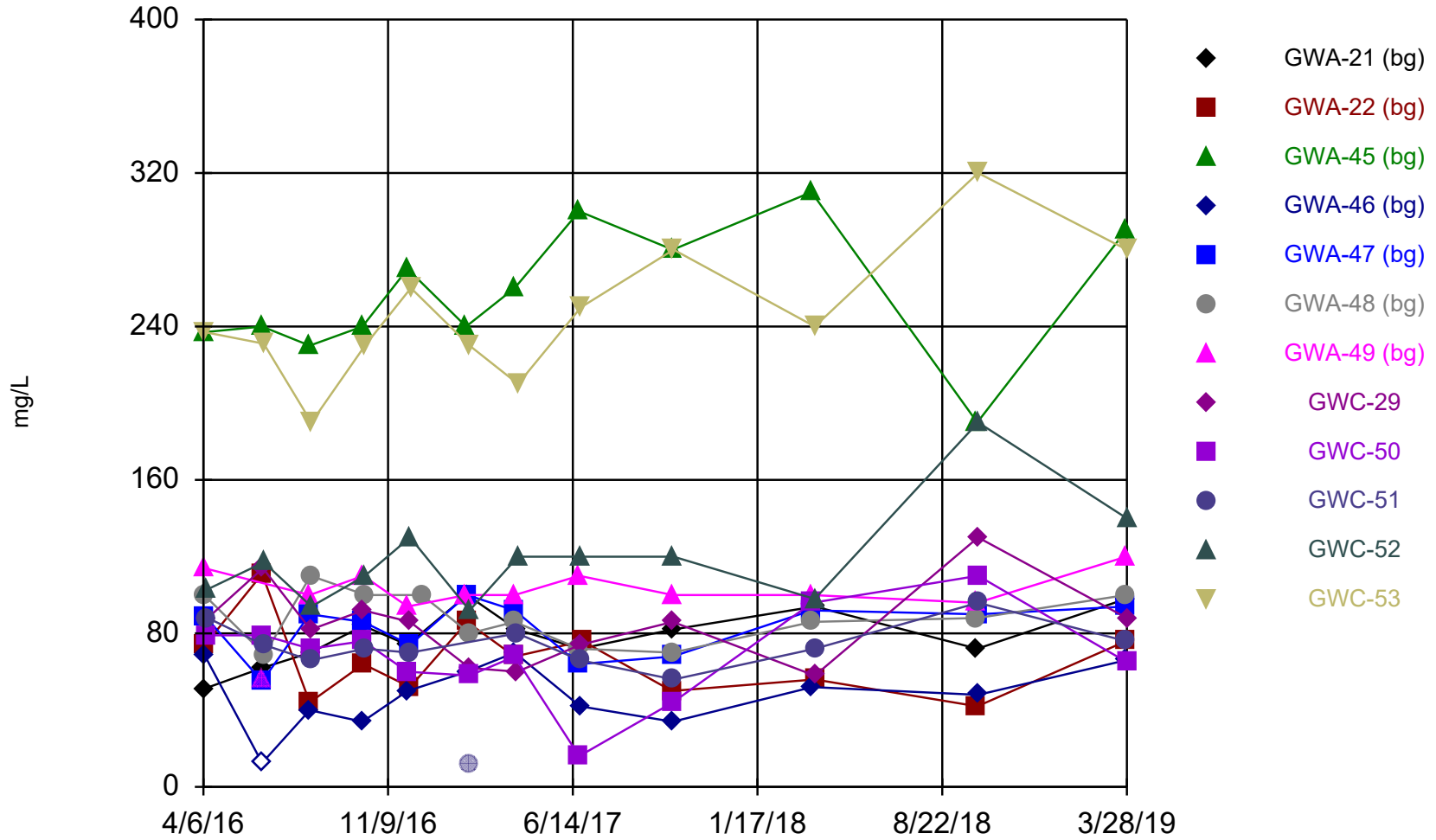
Time Series



Constituent: Thallium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

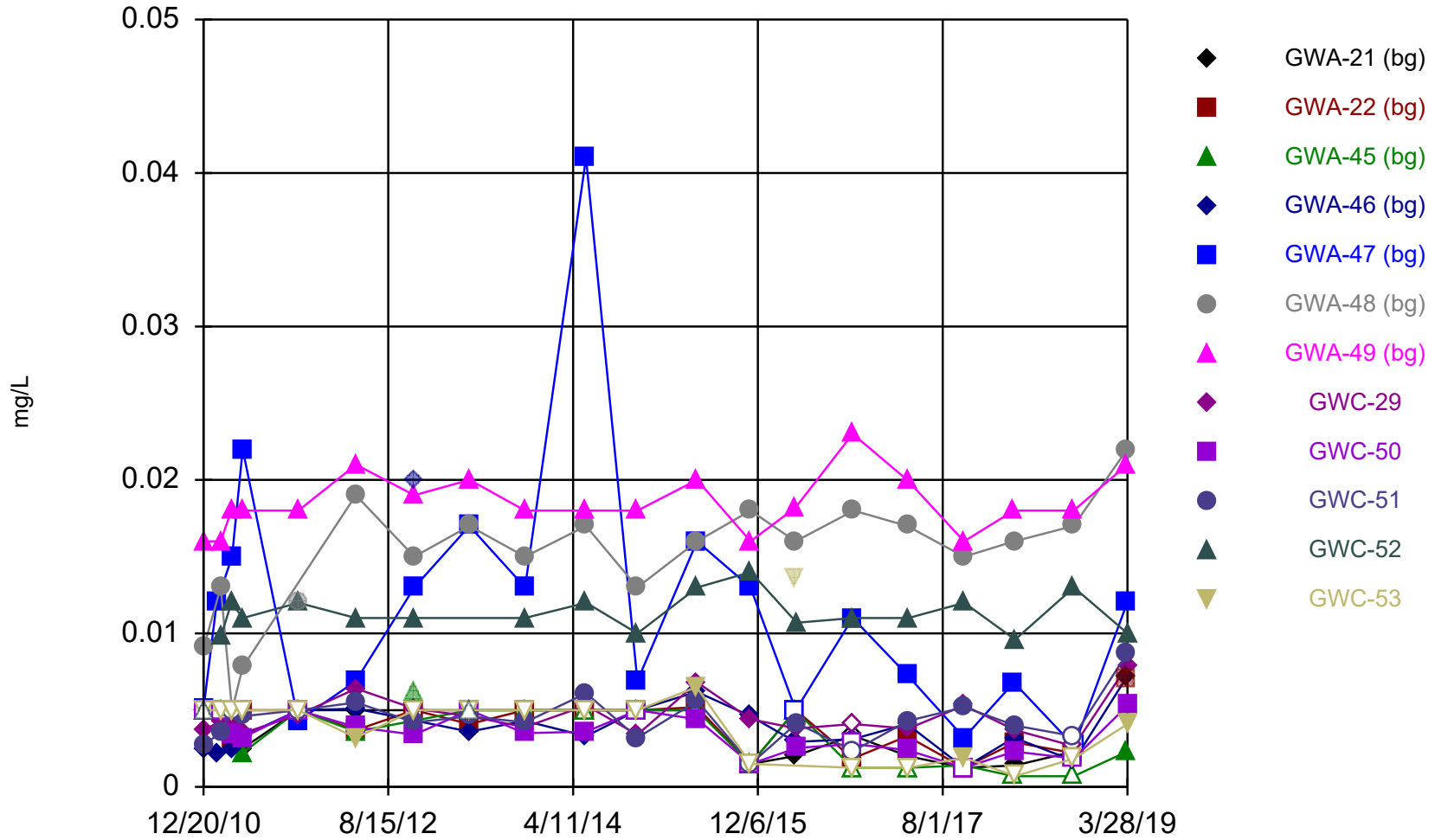
Time Series



Constituent: Total Dissolved Solids Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

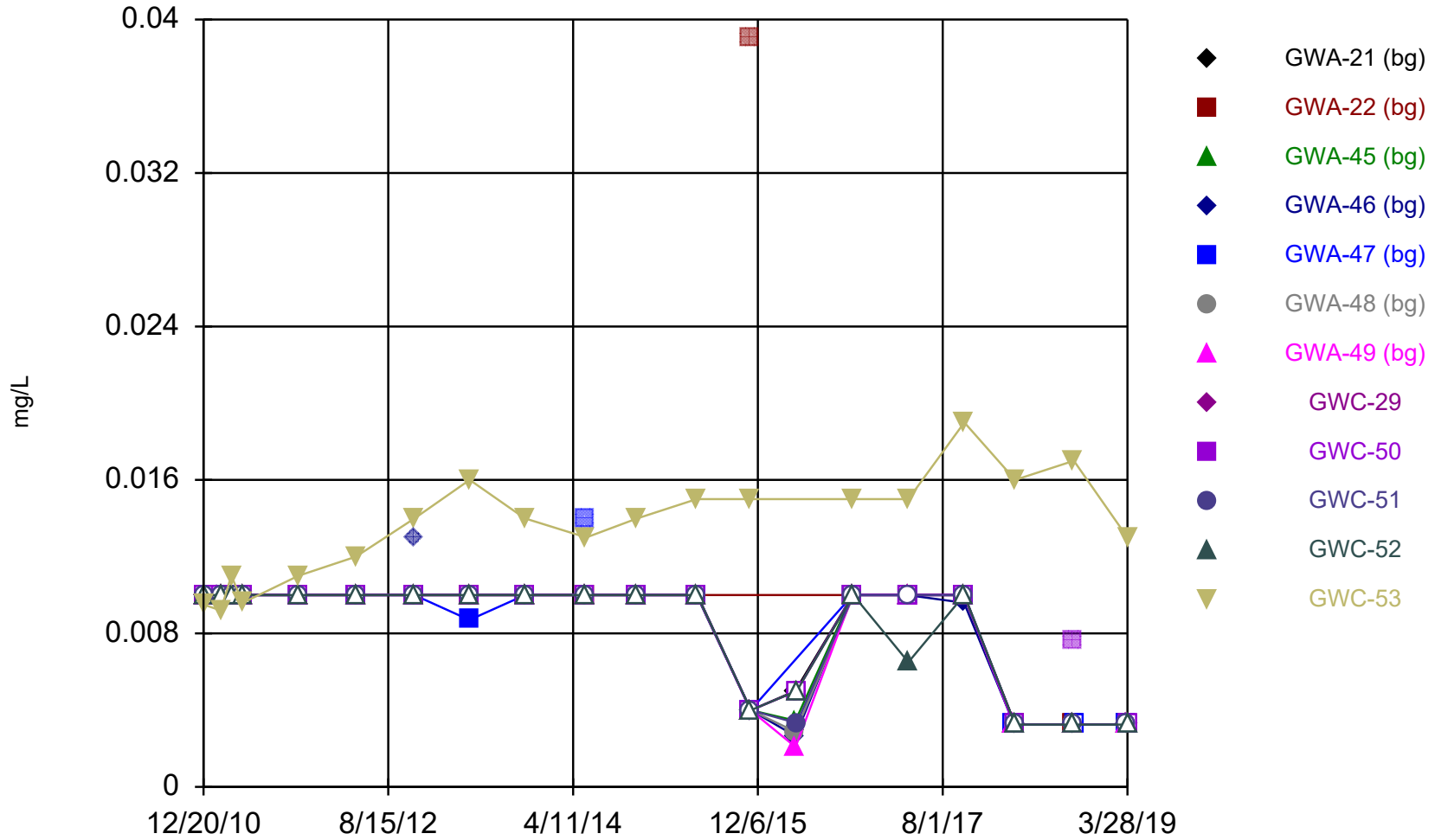
Time Series



Constituent: Vanadium, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

Time Series

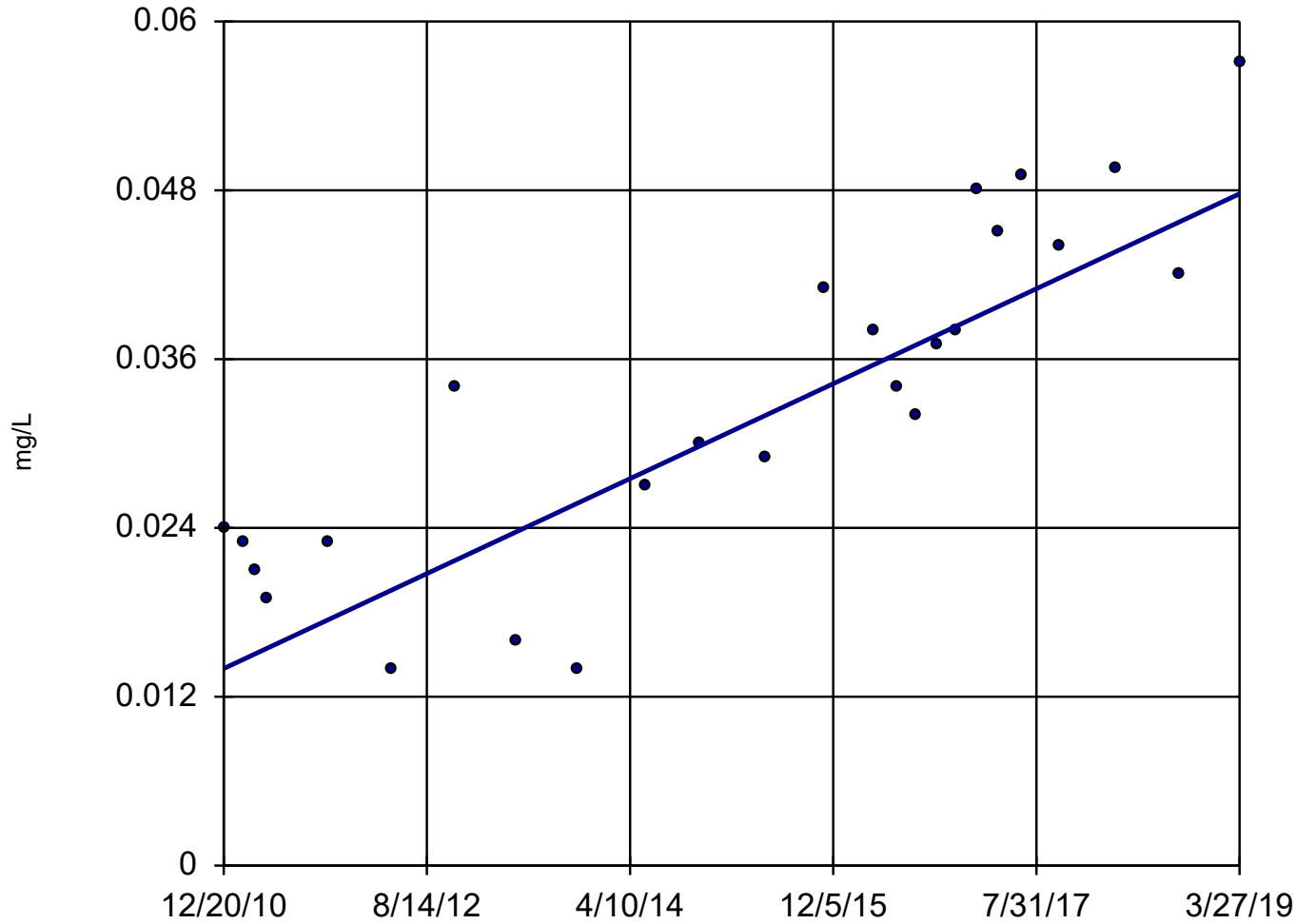


Constituent: Zinc, Total Analysis Run 8/8/2019 11:26 AM View: State LF Constituents

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWA-45 (bg)



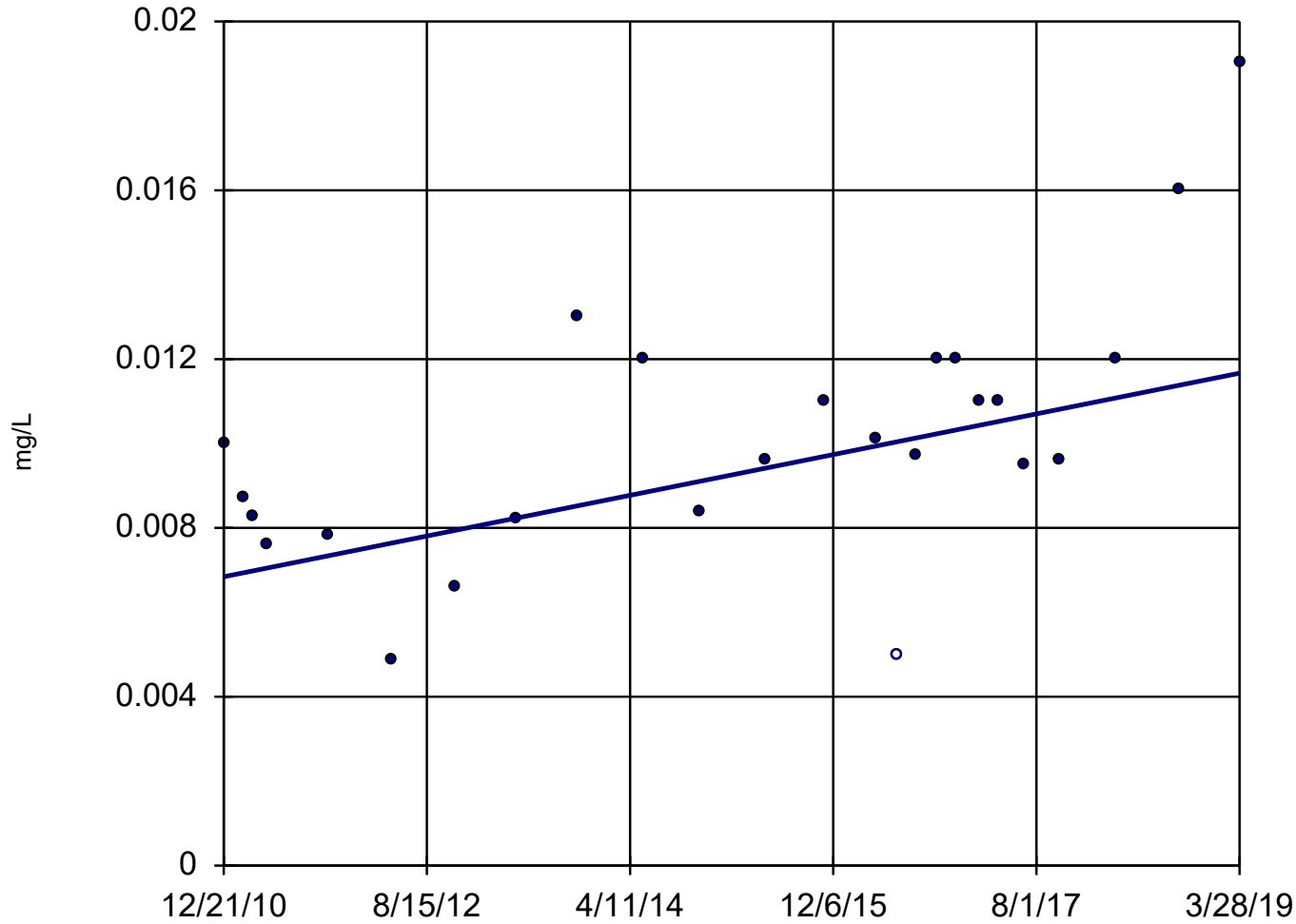
n = 25
Slope = 0.004079
units per year.
Mann-Kendall
statistic = 199
critical = 111
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Barium, Total Analysis Run 8/8/2019 12:48 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWC-52



n = 25

Slope = 0.0005834
units per year.

Mann-Kendall
statistic = 120
critical = 111

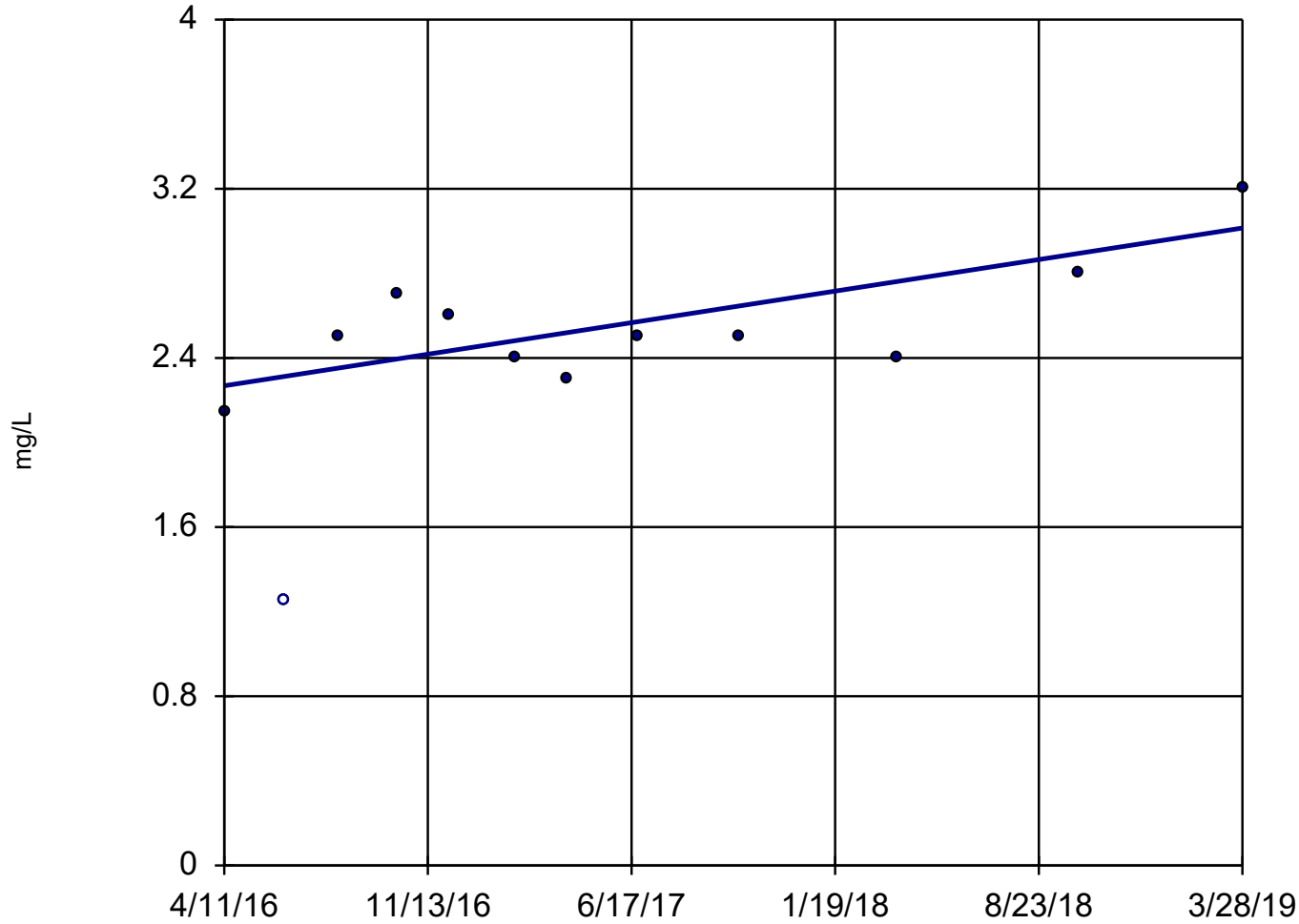
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium, Total Analysis Run 8/8/2019 12:54 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWC-29



n = 12

Slope = 0.252
units per year.

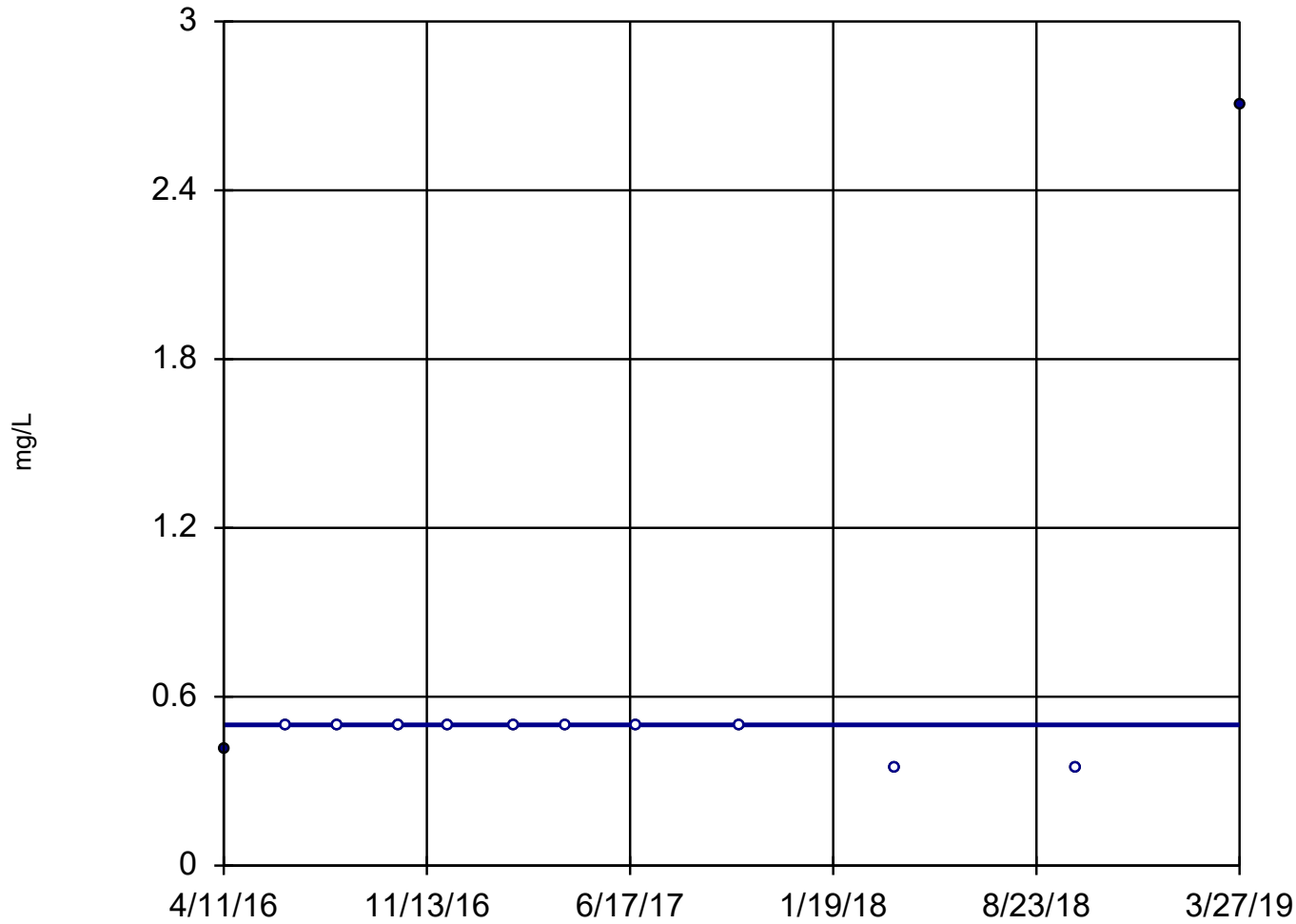
Mann-Kendall
statistic = 26
critical = 38

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

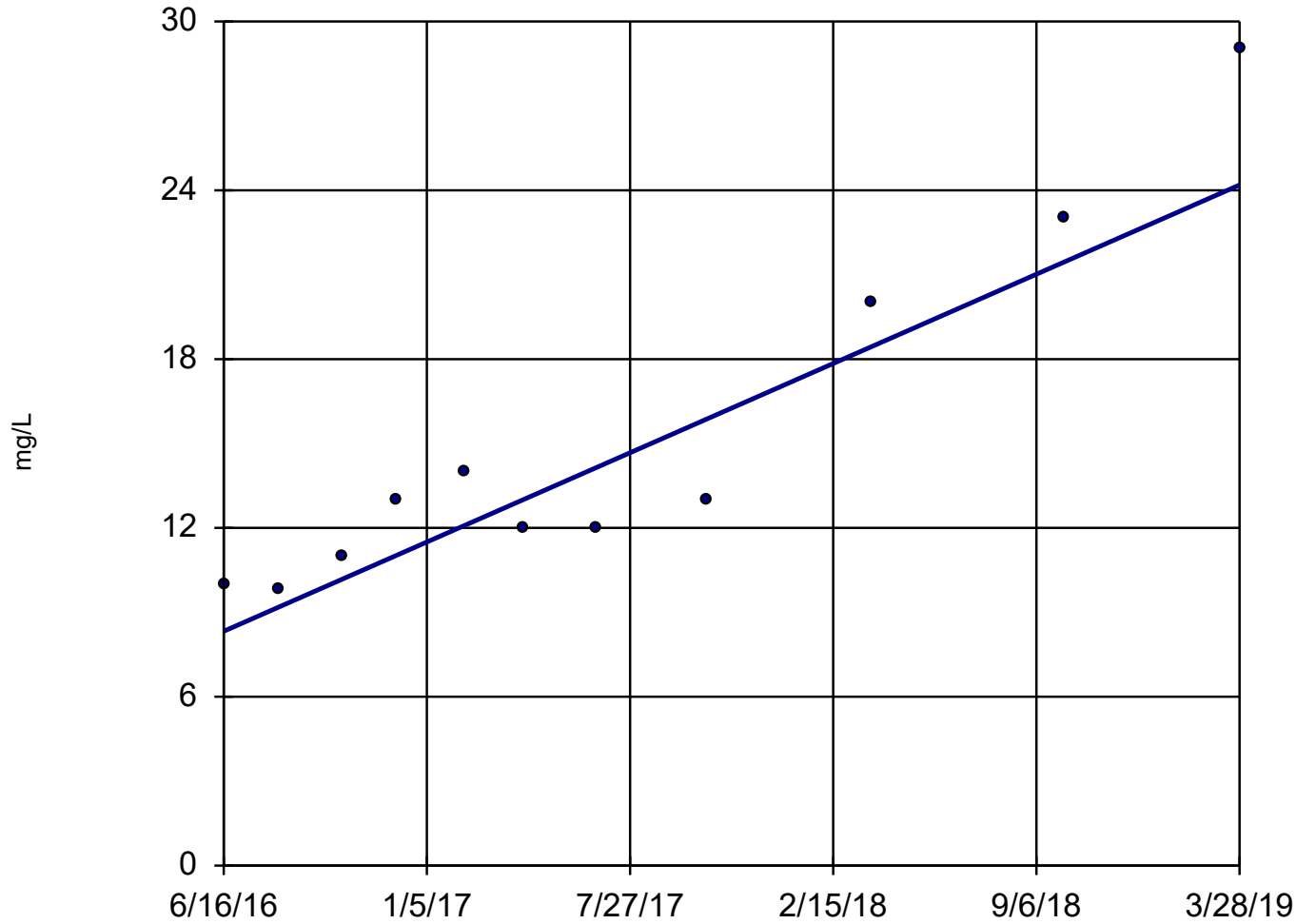
Sen's Slope Estimator GWC-51



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 1
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator GWC-52



n = 11

Slope = 5.703
units per year.

Mann-Kendall
statistic = 41
critical = 34

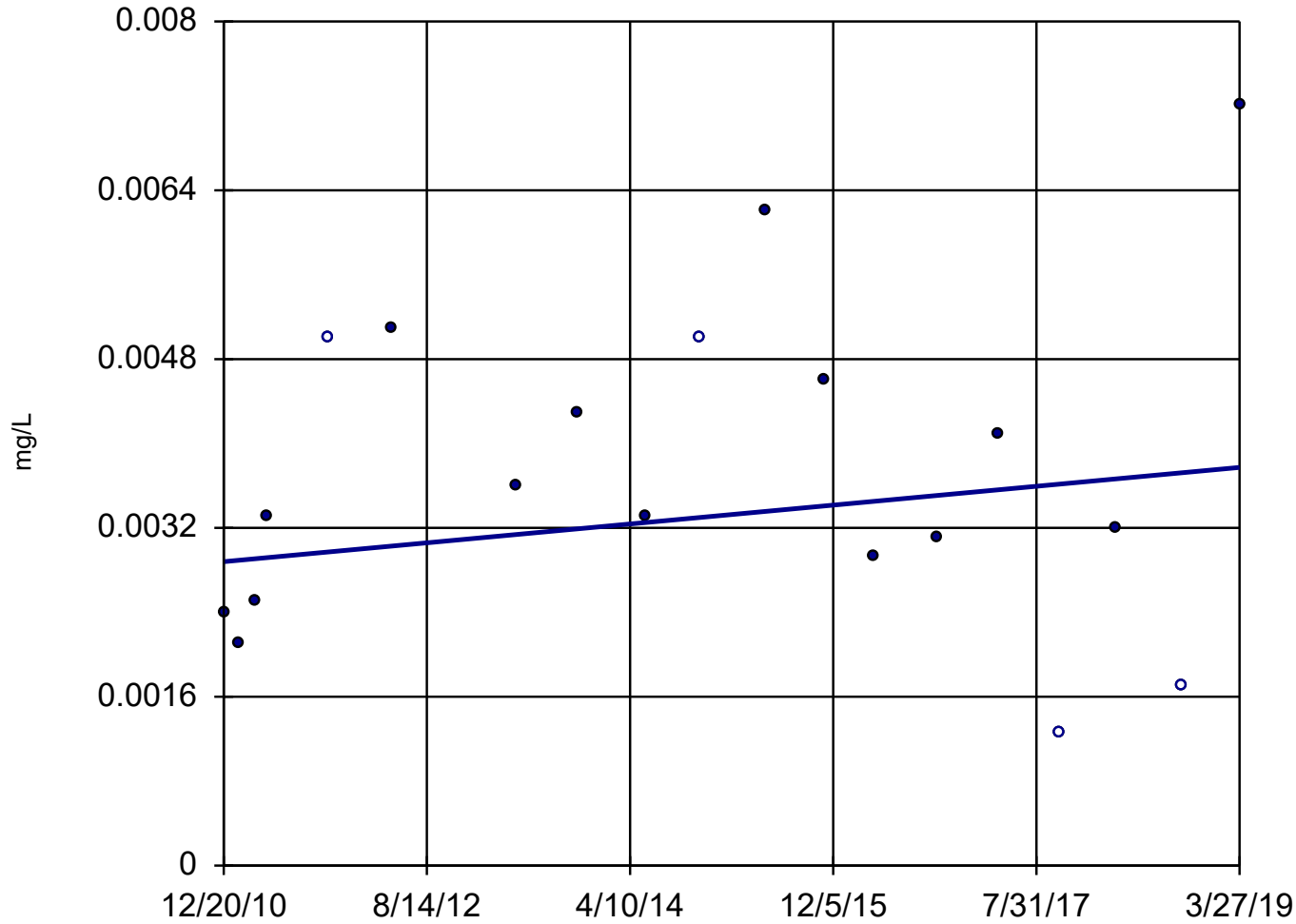
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 8/8/2019 12:57 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWA-46 (bg)



n = 19

Slope = 0.0001079
units per year.

Mann-Kendall
statistic = 11
critical = 74

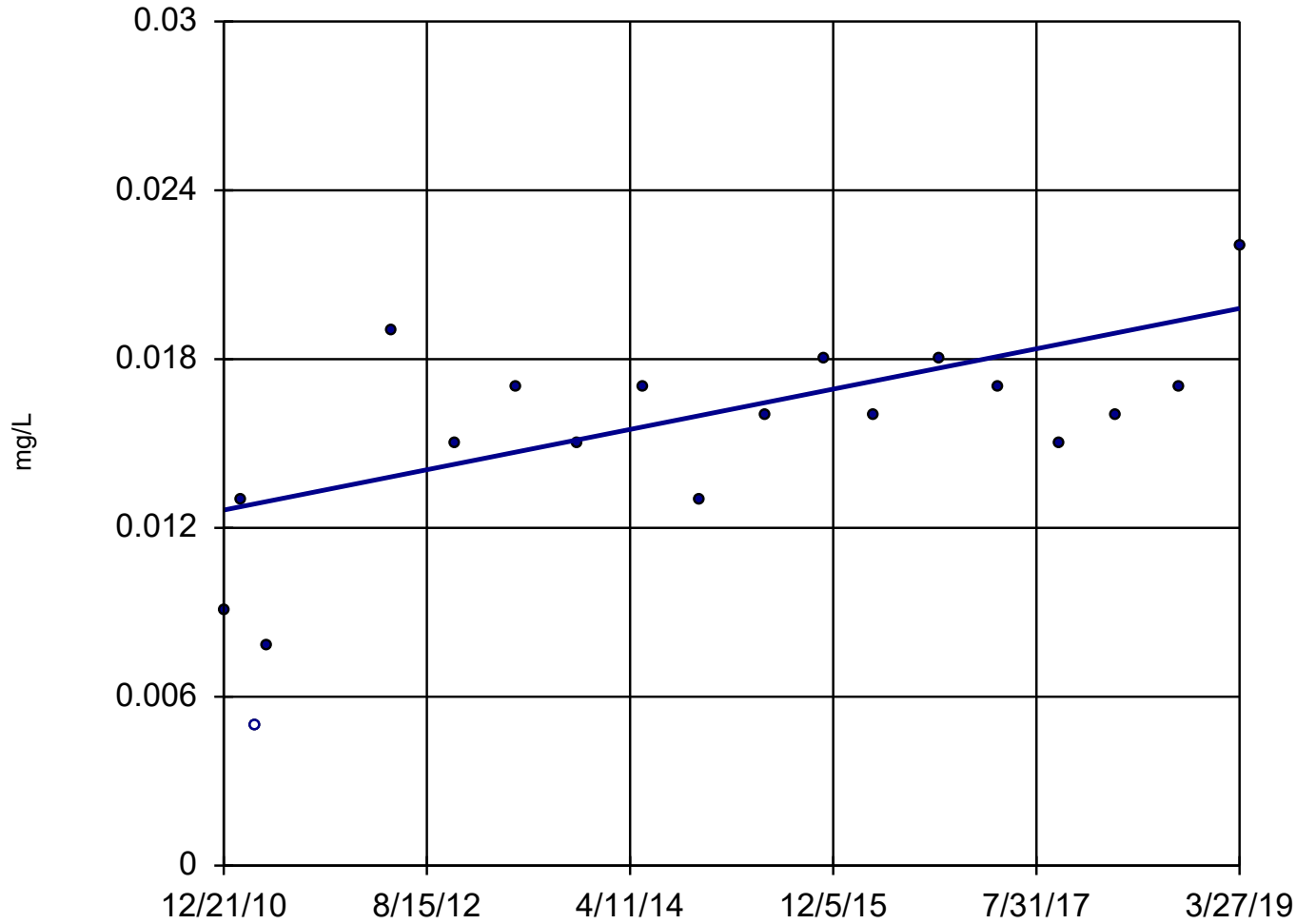
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWA-48 (bg)



n = 19

Slope = 0.0008666
units per year.

Mann-Kendall
statistic = 71
critical = 74

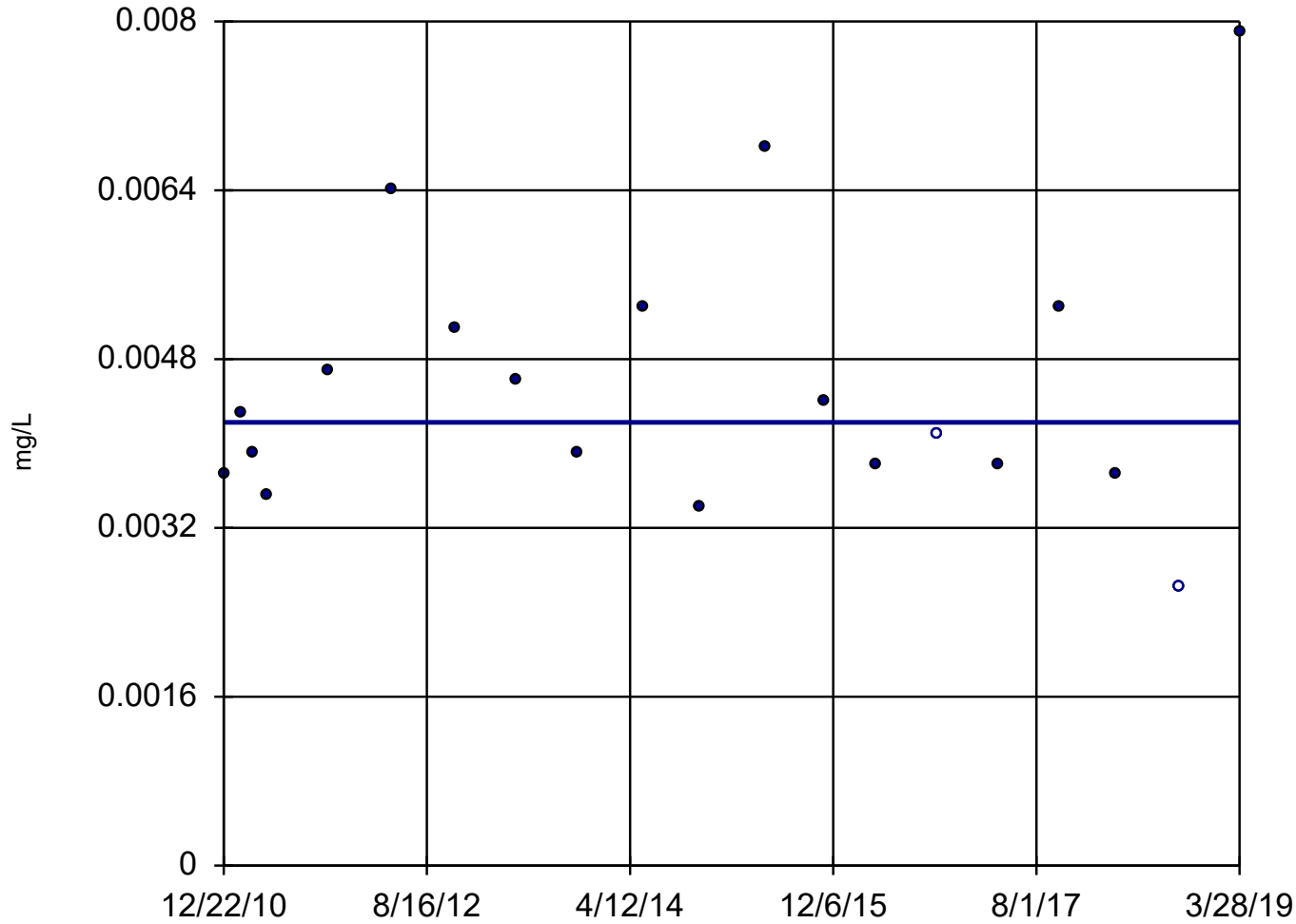
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWC-29



n = 20

Slope = 0
units per year.

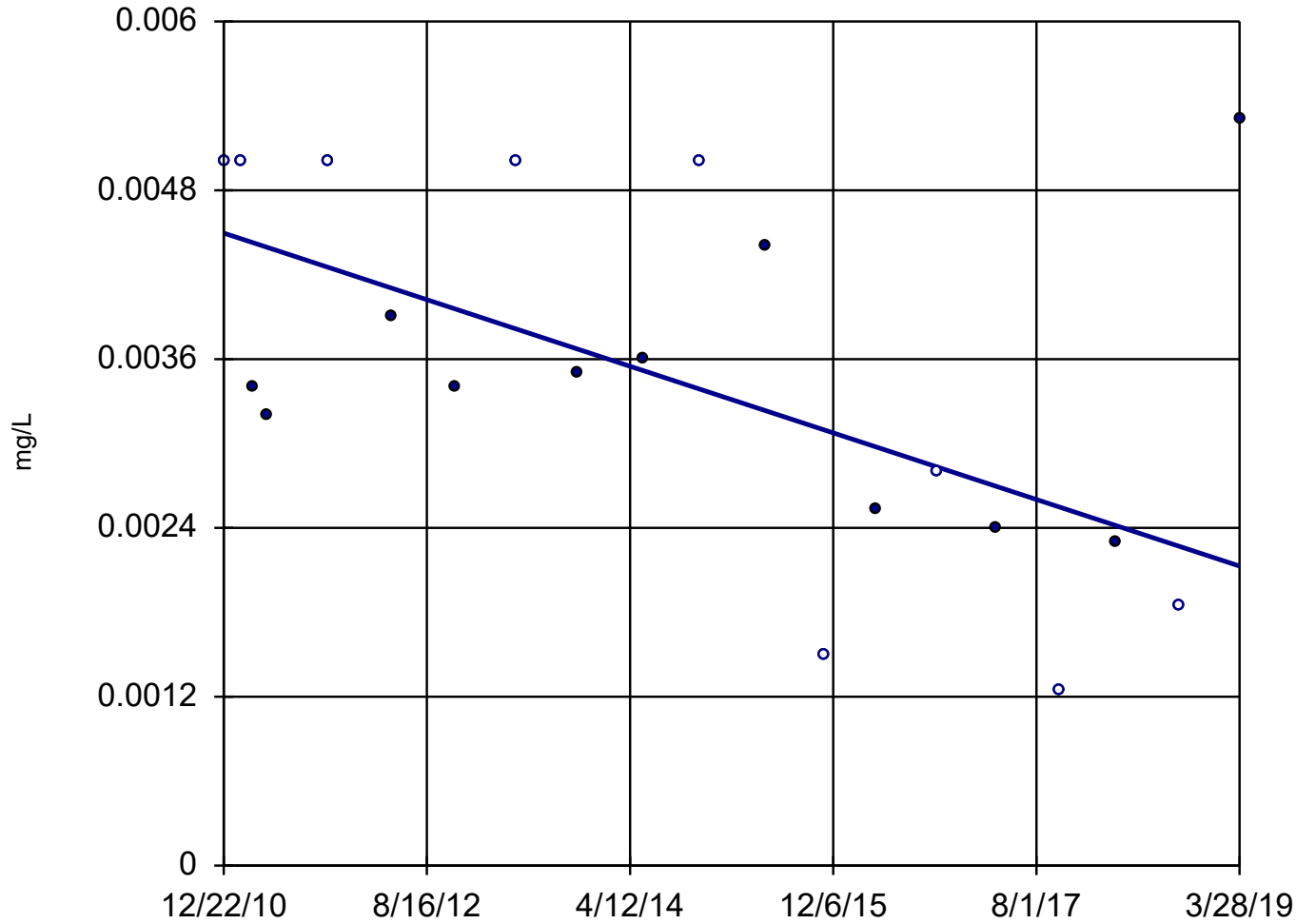
Mann-Kendall
statistic = -1
critical = -81

Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator GWC-50

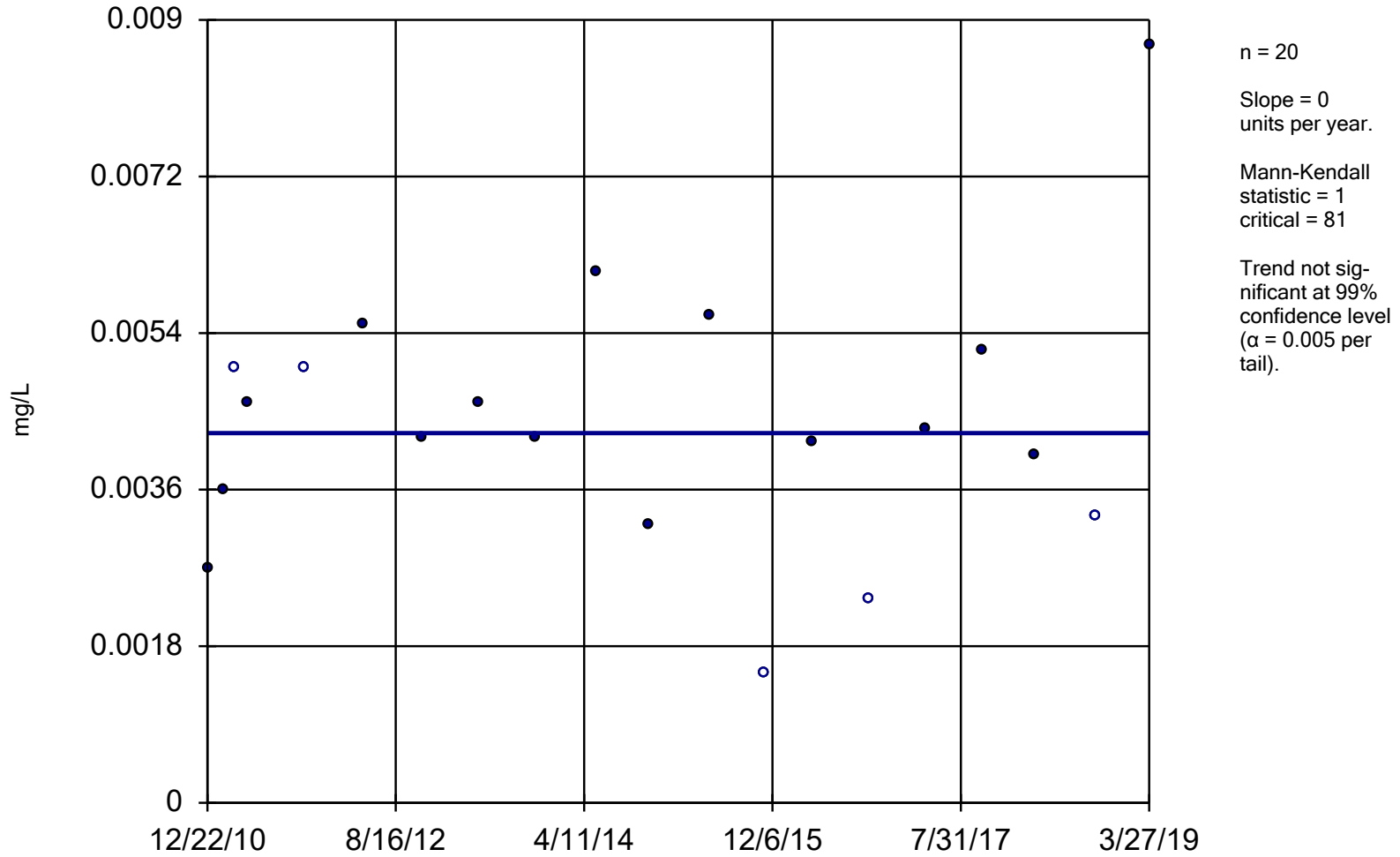


n = 20
Slope = -0.0002862
units per year.
Mann-Kendall
statistic = -69
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend
Scherer Client: Golder Associates Data: Scherer PAC CCR

Sen's Slope Estimator

GWC-51



Constituent: Vanadium, Total Analysis Run 8/8/2019 12:58 PM View: Trend

Scherer Client: Golder Associates Data: Scherer PAC CCR



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