JETT ENVIRONMENTAL CONSULTING

February 3, 2017

Ms. Charlene Fitch
Missouri Department of Natural Resources
Division of Environmental Quality
1730 East Elm Street
Jefferson City, Missouri 65101

Re: Detection Monitoring Program Groundwater Statistical Analysis Report
Bridgeton Landfill, LLC – Bridgeton Landfill
Missouri DNR Permit #MO – 118912
Bridgeton, Missouri

Dear Ms. Fitch:

On behalf of the Bridgeton Landfill, LLC – Bridgeton Landfill, Jett Environmental Consulting is submitting the Detection Monitoring Program Groundwater Statistical Analysis Report for the November 2016 quarterly groundwater monitoring event.

If you have any questions or comments, please contact me at steve.jett@jettenviro.com or 314-496-4654.

Sincerely,

Steve Jett, P.G.
Owner

Attachment: *Groundwater Statistical Analysis Report (1 Hardcopy)*

cc: *Dana Sincox – Republic Services (1 Hardcopy & PDF via Email)*
Mark Milward – Saint Louis County Department of Public Health (PDF via Email)

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DETECTION MONITORING PROGRAM GROUNDWATER STATISTICAL ANALYSIS REPORT

Fourth Quarter 2016 Sampling Event

Bridgeton Landfill, LLC
Bridgeton Landfill
Bridgeton, Missouri

MO DNR PERMIT No. 118912

February 2017

Prepared by:

JETT ENVIRONMENTAL CONSULTING

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1.0 INTRODUCTION

On behalf of the Bridgeton Landfill, LLC - Bridgeton Landfill, Jett Environmental Consulting has prepared this Detection Monitoring Program (DMP) Groundwater Statistical Analysis Report for the Fourth Quarter 2016 quarterly groundwater monitoring event. Sampling for the Fourth Quarter 2016 event was conducted by Feezor Engineering, Inc. on November 8 – 22, 2016. Laboratory analytical testing was performed by Pace Analytical Services, Inc. Statistical evaluations were performed using the statistical analysis software package, Sanitas™, which follows a documented decision logic that incorporates the United States Environmental Protection Agency's (USEPA's) March 2009 Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance (hereafter, Unified Guidance).

2.0 SITE BACKGROUND AND MONITORING NETWORK

Jett Environmental Consulting statistically evaluated the detection monitoring results from the Fourth Quarter 2016 event using intra-well prediction limits. Prediction limits are considered a powerful tool for groundwater statistical analysis, when feasible, due to their inherent low false negative and false positive rates utilizing confirmatory resampling, if necessary.

The background period utilized for this report includes samples collected from February 1997 through May 2015. The background period will be updated approximately every two years. Statistical outliers are removed as described **Section 4.1**. Monitoring results from three hydrostratigraphic zones are statistically evaluated at the Bridgeton Landfill. These zones are described in **Section 3.0**. **Table 1** lists the detection monitoring wells evaluated in this report.

The facility has prepared statistical power curve graphs to allow Missouri Department of Natural Resources (MDNR) to perform comparisons between the current DMP and USEPA-recommended standards. Under the USEPA's *Unified Guidance*, intra-well prediction limits are constructed to have a site-wide false positive rate (SWFPR) of 10% annually, or 5% per event for a semi-annually sampled facility. The power of the statistical program within each hydrostratigraphic zone is as follows:

Alluvial Zone: Based on the smallest pre-screening background size of n = 37 for a parametric prediction limit in the Alluvial Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 95% for concentration increases of 3 standard deviations and 99% for increase of 4 standard deviations. Based on the smallest pre-screening background size of n = 40 for a non-parametric prediction limit in the Alluvial Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

St. Louis Formation Zone: Based on the smallest pre-screening background size of n = 36 for a parametric prediction limit in the St. Louis Formation Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 90% for concentration increases of 3 standard deviations and 99% for increases of 4 standard deviations. Based on the smallest pre-screening background size of n = 38 for a non-parametric prediction limit in the St. Louis Formation Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

Salem Formation Zone: Based on the smallest pre-screening background size of n = 35 for a parametric prediction limit in the Salem Formation Zone, the annual statistical power of the facility's monitoring program under a "1-of-2" verification resampling scheme is approximately 85% for concentration increases of 3 standard deviations and 99% for increases of 4 standard deviations. Based on the smallest pre-screening background size of n = 38 for a non-parametric prediction

limit in the Salem Formation Zone, the annual power of the program is approximately 63% for increases of 3 standard deviations and 90% for increases of 4 standard deviations.

Appendix A presents the power curve graphs for the facility's monitoring program. As the size of the background period increases, the statistical power will likewise continue to increase.

A full suite of sample bottles was collected from each well during the Fourth Quarter 2016 event. Field duplicates were collected at wells PZ-104-SD and PZ-209-SD. A field blank was collected at well PZ-104-KS. Two trip blanks were shipped to the laboratory with the samples.

For constituents where both the original and field duplicate results were greater than five times the reporting limit (RL), each result exhibited a relative percent difference (RPD) of 20% or less, with the exception of total barium (0.0641 mg/L at PZ-209-SD, 0.124 mg/L at Duplicate, 64% RPD). For constituents where the original and/or field duplicate results were less than five times the RL, the results exhibited a difference that was less than or equal to the RL.

There were no detections above laboratory RLs in the trip blanks. The field blank at PZ-104-KS exhibited one detection above the laboratory RL, acetone (12.1 ug/L; RL = 10 ug/L).

3.0 SITE HYDROGEOLOGY

The geologic and hydrogeologic setting for the Bridgeton Landfill was described in the Groundwater Technical Report, dated November 28, 2016, prepared by Feezor Engineering, Inc.

For the purposes of groundwater monitoring, the geology underlying the Bridgeton Landfill can be divided into five units of interest, from oldest to youngest: the Keokuk formation bedrock, the Warsaw formation bedrock, the Salem formation bedrock, the St. Louis formation bedrock, and unconsolidated materials consisting of alluvium and loess. According to the Groundwater Technical Report, four of these general hydrostratigraphic zones are monitored at the site. The Warsaw formation is not a groundwater-bearing unit and is therefore not discussed below.

The former quarry pits were constructed to a depth consistent with the upper portion of the Salem formation. Accordingly, portions of the Salem formation, St. Louis formation, and unconsolidated materials are absent in those areas where the landfill was constructed.

Keokuk Formation Bedrock: The Keokuk formation is a part of the Osagean series, which is in turn a part of the Mississippian system. The formation is a fresh to slightly- or moderately-weathered, thinly- to medium-bedded, medium-strong limestone. The color of the formation is generally very light gray to light olive. The limestone is dolomitic, with members that are variously described as siliceous and arenaceous, as well as porous and vuggy. The formation is characterized by chert layers and nodules. Fractures are rare in the Keokuk formation, generally occurring at frequencies of up to two fractures per foot. Where they occur, these fractures are generally irregular and rough, or—alternately—bedded and planar.

The top of the Keokuk formation is encountered at an elevation of approximately 115 to 126 ft/msl in the eastern portion of the landfill and approximately 115 ft/msl in the western portion of the landfill. The Keokuk formation is underlain by the Burlington formation and overlain by the Warsaw formation.

Warsaw Formation Bedrock: The Warsaw formation is a part of the Meramecian Series, which is in turn a part of the Mississippian system. The formation is a fresh, thickly-bedded, weak to medium-strong, microcrystalline to coarsely crystalline calcareous claystone and limestone. The formation includes abundant interbedding of dolomite, claystone, siltstone, clayey siltstone, and silty claystone. The lower portion of the Warsaw formation is predominantly thinly- to medium-bedded limestone, grading into the upper portion of the Keokuk formation, with thin chert layers

and small chert nodules. The upper portion of the Warsaw formation is characterized by an approximately 2.5- to 10-foot thick claystone or siltstone layer, commonly referred to as the Warsaw Shale. The color of the formation is generally dark greenish gray to olive black. Formation members are variously described as arenaceous or argillaceous, as well as porous and vuggy. Fractures are rare in the Warsaw formation, generally occurring at frequencies of up to one fracture per foot. Where they occur, these fractures are generally jointed, either irregular or planar, and either rough or smooth.

The top of the Warsaw formation is encountered at an elevation of approximately 240 ft/msl in the eastern portion of the landfill and approximately 250 to 260 ft/msl in the western portion of the landfill. The thickness of the Warsaw formation ranges from approximately 130 to 145 feet. The Warsaw formation is underlain by the Keokuk formation and overlain by the Salem formation. As noted above, the Warsaw formation is not a groundwater-bearing unit, and is therefore not monitored under the facility's groundwater monitoring programs.

Salem Formation Bedrock: The Salem formation is a part of the Meramecian Series, which is in turn a part of the Mississippian system. The formation is a fresh, thinly- to thickly-bedded, medium-strong limestone. The color of the formation is generally pale yellowish brown to light olive gray. The limestone is dolomitic and fossiliferous. The formation is also characterized by widespread interbedded dolomite layers and scattered chert clasts, nodules, and layers. Fractures are rare in the Salem formation, generally occurring at frequencies ranging from zero to one fracture per foot in the lower portion of the formation and up to two fractures per foot in the upper portion of the formation. Where they occur, these fractures are generally jointed, irregular, and rough, or—alternately—jointed, planar, and smooth.

The top of the Salem formation is encountered at an elevation of approximately 320 ft/msl in the eastern portion of the landfill and approximately 328 to 340 ft/msl in the western portion of the landfill. The thickness of the Salem formation ranges from approximately 67 to 83 feet. Portions of the Salem formation were removed during quarrying activities, and as such the unit is partly absent in those areas where the landfill was constructed. The Salem formation is underlain by the Warsaw formation and overlain by the St. Louis formation.

St. Louis Formation Bedrock: The St. Louis formation is a part of the Meramecian series, which is in turn a part of the Mississippian system. The formation is generally a fresh to slightly-weathered, thinly- to very thickly-bedded, microcrystalline to medium crystalline, medium-strong to strong limestone. The color of the formation is generally very light gray to olive gray. The limestone is dolomitic, and the upper units of the formation are brecciated, stylolitic, and fossiliferous. The St. Louis formation is also characterized by periodic claystone and siltstone beds and layers. The upper units of the formation contain occasional iron-oxide concretions and chert nodules. Fractures generally occur in the St. Louis formation at a frequency of zero to ten fractures per foot. Where they occur, these fractures are generally jointed, irregular, rough, and infilled with clay.

The top of the St. Louis formation is encountered at an elevation of approximately 425 to 460 ft/msl in the eastern portion of the landfill and approximately 379 to 445 ft/msl in the western portion of the landfill. The thickness of the St. Louis formation ranges from approximately 65 to 130 feet. Portions of the St. Louis formation were removed during quarrying activities, and as such the unit is absent in those areas where the landfill was constructed. The St. Louis formation is underlain by the Salem formation and overlain by unconsolidated materials.

Unconsolidated Materials: The unconsolidated materials that overlie the St. Louis formation at the Bridgeton Landfill are comprised primarily of alluvium overlain by loess. The alluvium ranges from a silty clay and clayey silt to a sand, and the loess ranges from a silty clay to a clayey silt. The loess was redeposited from braided glacial melt-out drainages by westerly winds during the late Pleistocene. The thickness of the loess is greatest in the eastern portion of the landfill. In the eastern portion of the landfill, the thickness of the loess is approximately 13 to 22 feet, and the thickness of the alluvium is approximately 12 to 32 feet. The loess is thinner in the western portion

of the site, and occasionally absent, due to quarrying and landfilling activities, as well as erosion within the floodplain. In the western portion of the site, the thickness of the loess (where present) is approximately 10 to 15 feet, and the thickness of the alluvium is up to approximately 110 feet. Portions of the alluvium and loess were removed during quarrying activities, and as such these materials are absent in those areas where the landfill was constructed.

Appendix B presents the groundwater potentiometric surface maps based on depth to water data measured on November 7, 2016. **Appendix B** also includes tables presenting the elevation data for both the groundwater monitoring wells and leachate collection sumps.

4.0 STATISTICAL PROCEDURES

The *Sanitas*™ program was utilized to compile and statistically evaluate the data for the Fourth Quarter 2016 monitoring event.

4.1 Outliers

Prior to the determination of intra-well prediction limits, the background data were evaluated for the presence of statistical outliers. Where the background data size was $n < 20$, Dixon's outlier test was utilized with a Type I error rate of $\alpha = 0.05$, and where the background data size was $n \geq 20$, Rosner's outlier test was utilized with a Type I error rate of $\alpha = 0.01$. Dixon's and Rosner's tests are not appropriate for background data that are not normally or log-normally distributed. Accordingly, the data sets were evaluated for normality prior to outlier evaluation. The normality of background data was evaluated using the Shapiro-Wilk test with a Type I error rate of $\alpha = 0.1$ where $n < 10$, $\alpha = 0.05$ where $10 \leq n < 20$, and $\alpha = 0.05$ where $n \geq 20$. In those cases where the background data were determined to not be normally or log-normally distributed, outlier evaluation was not performed.

Statistical outliers identified by the outlier tests were removed from the background data prior to the determination of intra-well prediction limits. Outlier evaluation results are presented on the individual prediction limits graphs presented in **Appendices C**, **D**, and **E**.

4.2 Screening for Statistical Trends

Prior to the determination of intra-well prediction limits, the background data were evaluated for increasing statistical trends. Statistical trends were evaluated using the Mann-Kendall trend test at a 98% confidence (Type I error rate of $\alpha = 0.01$ per tail). In those cases where the background data were determined to exhibit an increasing statistical trend (or either an increasing or decreasing statistical trend for field pH), the most recent background data were excluded until the data no longer exhibited a statistical trend. For each constituent-well pair that exhibited an increasing statistical trend, this modified background data period was utilized in the determination of the intra-well prediction limit. Trend evaluation results, including a summary of the constituent-well pairs that utilized modified background data periods, are presented in **Appendices C**, **D**, and **E**.

4.3 Intra-Well Prediction Limits

The prediction limit is a statistical method used to compare a single observation to a group of observations. The prediction limit is calculated to include observations from the same population with a specified confidence. In groundwater monitoring, a prediction limit approach may be used to make comparisons between background and compliance data. The limit is developed to contain all future observations, within a certain probability. If any future observation exceeds the prediction limit, this is considered statistically significant evidence that the observation is not representative of background.

The background data were first evaluated for normality using the Shapiro-Wilk test with at Type I error rate of $\alpha = 0.1$ where $n < 10$, $\alpha = 0.05$ where $10 \leq n < 20$, and $\alpha = 0.05$ where $n \geq 20$. In those instances where the background data were not normally distributed, the data were transformed using each of the possible transformations in the "ladder of powers": $x^{1/2}$, x^2, $x^{1/3}$, x^3, $ln(x)$, x^4, x^5, x^6. Each transformed data set was then re-evaluated for normality. The first transformation that resulted in a normal distribution was utilized for the determination of the intra-well prediction limit. In those instances where the background data were normal or transformed-normal and also consisted of less than 50% non-detects, a parametric intra-well prediction limit was determined. If 15% or less of the background data consisted of non-detects, the non-detects were replaced with concentrations equal to one-half of the reporting limit prior to the determination of parametric intra-well prediction limits. If greater than 15%, but less than 50% of the background data consisted of non-detects, then the mean and standard deviation utilized in the determination of the parametric intra-well prediction limit were estimated according to the Kaplan-Meier method.

In those instances where the background data were not normal or transformed-normal, or where the background data consisted of 50% or greater non-detects, a non-parametric intra-well prediction limit was determined.

Table 2 lists the prediction limit exceedances observed for the Fourth Quarter 2016 event. Intra-well prediction limit summary tables and graphs are presented in **Appendices C**, **D**, and **E**.

For the Fourth Quarter 2016 event, there were no results that exceeded an intra-well prediction limit in the Alluvial Zone.

There were 13 results that exceeded their respective intra-well prediction limits in the St. Louis Formation Zone: total calcium, chloride, total magnesium, total manganese, sulfate, and total dissolved solids (TDS) at PZ-105-SS; chloride, total iron, total sodium, and field specific conductance at PZ-106-SS; ammonia and total manganese at PZ-115-SS; and total boron at PZ-201A-SS.

There were 14 results that exceeded their respective intra-well prediction limits in the Salem Formation Zone: total barium, chloride, total chromium, total magnesium, total nickel, total sodium, field specific conductance, TDS, and total organic carbon (TOC) at PZ-104-SD; and ammonia, total barium, total magnesium, field specific conductance, and TDS at PZ-106-SD.

Of the 27 prediction limit exceedances observed for the Fourth Quarter 2016 event, 25 were also observed for the previous monitoring event in Third Quarter 2016. Two new prediction limit exceedances were observed for the Fourth Quarter 2016 event: field specific conductance at PZ-106-SS and total boron at PZ-201A-SS. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (First Quarter 2017) will be used to confirm the new exceedances.

The Fourth Quarter 2016 event served as a confirmatory event for the 2 new prediction limit exceedances that were observed for the Third Quarter 2016 event. One of the new exceedances observed for the Third Quarter 2016 event was not confirmed as an exceedance for the Fourth Quarter 2016 event: total barium at PZ-106-SS. One of the new exceedances observed for the Third Quarter 2016 event was confirmed as an exceedance for the Fourth Quarter 2016 event: total manganese at PZ-115-SS.

4.4 Statistical Trends in Exceeding Constituents

Each constituent that exceeded its intra-well prediction limit was evaluated for increasing statistical trends. Statistical trends were evaluated using the Mann-Kendall trend test with a 98% confidence (Type I error rate of $\alpha = 0.01$ per tail).

Trend evaluation indicated that of the 27 constituent-well pairs that exceeded intra-well prediction limits for the Fourth Quarter 2016 event, 23 also exhibited increasing statistical trends. The following constituent-well pairs did not exhibit an upward statistical trend: total manganese at PZ-105-SS; total boron at PZ-201A-SS; field specific conductance at PZ-106-SD; and TDS at PZ-106-SD.

Trend evaluation results for constituents that exceeded intra-well prediction limits are presented in **Appendices C**, **D**, and **E**. Also presented in **Appendices C**, **D**, and **E** are time series plots for each of the constituents that were statistically evaluated in this report.

4.5 Organic Constituent Results

During the Fourth Quarter 2016 monitoring event, organic constituents were detected at three wells: PZ-114-AS, PZ-104-SS, and PZ-104-SD. Wells PZ-114-AS, PZ-104-SS, and PZ-104-SD have previously exhibited confirmed organic constituent detections.

Chlorobenzene and 1,4-dichlorobenzene were detected at upgradient Alluvial Zone well PZ-114-AS. Chlorobenzene has been detected at PZ-114-AS since at least 1997. 1,4-Dichlorobenzene has been detected at PZ-114-AS since at least 2002. **Table 3** presents the historical results for organic constituents detected at PZ-114-AS. As described in the MDNR's aforementioned October 23, 2003 letter, organic constituent detections at PZ-114-AS appear to be related to impacts from the upgradient PM Resources, Inc. property.

The following organic constituents were detected at well PZ-104-SS: 1,4-dichlorobenzene, benzene, ethylbenzene, methyl-tert-butyl ether, p-isopropyltoluene, toluene, and total xylenes. Detections of organic constituents were first observed at PZ-104-SS in November 2012. **Table 4** presents the historical results for organic constituents that have been detected at PZ-104-SS from November 2012 onward. The confirmed organic constituent detections at PZ-104-SS are currently being evaluated under the assessment monitoring program, as detailed in the original Assessment Monitoring Plan (dated December 17, 2013).

The following organic constituents were detected at well PZ-104-SD (or the PZ-104-SD field duplicate): 1,4-dichlorobenzene, benzene, methyl-tert-butyl ether, p-isopropyltoluene, tetrahydrofuran, toluene, and total xylenes. Detections of organic constituents were first observed at PZ-104-SD in May 2012. **Table 4** presents the historical results for organic constituents that have been detected at PZ-104-SD from May 2012 onward. The confirmed organic constituent detections at PZ-104-SD are currently being evaluated under the assessment monitoring program, as detailed in the AMP.

5.0 STATISTICAL RESULTS SUMMARY

For the Fourth Quarter 2016 monitoring event, there were no results that exceeded an intra-well prediction limit in the Alluvial Zone. There were 13 results that exceeded their respective limits in the St. Louis Formation Zone. There were 14 results that exceeded their respective limits in the Salem Formation Zone.

Two new prediction limit exceedances were observed for the Fourth Quarter 2016 event: field specific conductance at PZ-106-SS and total boron at PZ-201A-SS. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (First Quarter 2017) will be used to confirm the new exceedances.

The Fourth Quarter 2016 event served as a confirmatory event for the 2 new prediction limit exceedances that were observed for the Third Quarter 2016 event. One of the new exceedances observed for the Third Quarter 2016 event was not confirmed as an exceedance for the Fourth Quarter 2016 event: total barium at PZ-106-SS. One of the new exceedances observed for the

Third Quarter 2016 event was confirmed as an exceedance for the Fourth Quarter 2016 event: total manganese at PZ-115-SS.

Well PZ-104-SD exhibited confirmed exceedances and upward trends for the following inorganic constituents in Fourth Quarter 2016: total barium, chloride, total chromium, total magnesium, total nickel, total sodium, field specific conductance, TDS, and TOC. PZ-104-SD also exhibited confirmed detections for the following organic constituents: 1,4-dichlorobenzene, benzene, methyl-tert-butyl ether, toluene, and total xylenes.

Recent Submittals

On October 14, 2016, the site received a comment letter from the MDNR. The MDNR's letter provided comments on select Bridgeton Landfill groundwater detection and assessment monitoring reports that were previously submitted from October 2014 through April 2016. In addition to the responses to each comment provided in the October 14, 2016 MDNR letter, the following requested items were submitted by the site on November 14, 2016: Updated Assessment Monitoring Plan, and Alternate Source Demonstration. On November 28, 2016, the following additional requested items were submitted by the site: Groundwater Technical Report, and Interim Corrective Measures Technical Report.

The November 14, 2016 Alternate Source Demonstration addressed confirmed statistically significant increases (SSIs) that have been observed at the Bridgeton Landfill's groundwater detection monitoring wells between September 2014 and March 2016 (as addressed in the October 14, 2016 MDNR letter). Historically, the MDNR had specified that an ASD or assessment monitoring plan (AMP) is not required when a Bridgeton Landfill detection monitoring well exhibits a confirmed inorganic prediction limit exceedance, unless the inorganic constituent also exhibits a concurrent statistically significant upward trend and the same well exhibits a concurrent confirmed organic constituent detection above the laboratory reporting limit (RL). The MDNR's position was originally articulated in a comment letter dated October 23, 2003. Of the constituent-well pairs identified by the MDNR as exhibiting confirmed exceedances with upward trends between September 2014 and March 2016, none exhibited concurrent confirmed organic constituent detections. An ASD or AMP was accordingly not required for these SSIs, per the MDNR's October 23, 2003 letter. However, given the assessment monitoring program that is presently in place for identified impacts to groundwater at detection monitoring wells PZ-104-SS and PZ-104-SD, the facility proactively prepared the November 14, 2016 ASD to address confirmed inorganic SSIs at other detection monitoring wells. The ASD concluded that the inorganic SSIs observed at other wells are a result of natural variation, and are 1) not indicative of a new impact to groundwater or 2) not related to the impact previously identified at PZ-104-SS and PZ-104-SD. The ASD is currently under review by the MDNR. The items addressed in the ASD are consistent with exceedances noted in the Fourth Quarter 2016 event.

Pursuant to Title 10 of the Missouri Code of State Regulations (CSR) 80-3.010 (11)(C)6.C, the facility submitted an AMP on December 17, 2013 in response to the confirmed exceedances, upward trends, and confirmed organic detections that were first observed at well PZ-104-SD in November 2012 and at PZ-104-SS in April 2013. In accordance with the AMP and a July 30, 2014 comment letter from the MDNR, the facility performs assessment monitoring events at PZ-104-SS and PZ-104-SD semi-annually in the second and fourth quarters. The results of assessment monitoring were most recently discussed in the August 29, 2016 Annual Assessment Monitoring Report with the next annual report scheduled to be submitted by August 31, 2017. Potential remedial alternatives to address the groundwater quality issues at wells PZ-104-SS and PZ-104-SD were discussed and evaluated in a February 19, 2016 Assessment of Corrective Measures Report Addendum by Feezor Engineering, Inc.

An updated AMP was also included in the site's November 14, 2016 submittal noted above. The updated version of the AMP was prepared in response to the October 14, 2016 MDNR comment letter. The MDNR's letter addressed the facility's August 18, 2014 responses to comments on the

AMP. In its letter, the MDNR requested that the facility submit a complete, updated AMP incorporating revisions to the AMP that were presented in the August 18, 2014 submittal. The November 14, 2016 updated AMP is currently under review by the MDNR.

Appendix F presents a copy of the laboratory analytical report and field information forms for the Fourth Quarter 2016 event.

6.0 REVISED STATISTICAL ANALYSIS PLAN

On November 23, 2010, the Bridgeton Landfill submitted a revised Statistical Analysis Plan to the MDNR. This Plan was intended to update and supersede the current statistical evaluation procedures at the facility, and was prepared according to the USEPA's Unified Guidance and recommendations provided by the MDNR. The Plan is currently under review by the MDNR. The statistical evaluation methods described in the Plan will be implemented following MDNR approval, or an updated Plan may be submitted based on MDNR's responses to the November 14, 2016 and November 28, 2016 submittals.

TABLES

TABLE 1 Detection Monitoring Wells – Fourth Quarter 2016 Bridgeton Landfill, LLC Bridgeton Landfill	
Zone	**Groundwater Detection Monitoring Wells**
Alluvial	PZ-114-AS
St. Louis Formation	PZ-100-SS, PZ-104-SS, PZ-105-SS, PZ-106-SS, PZ-109-SS PZ-110-SS, PZ-115-SS, PZ-201A-SS, PZ-205-SS
Salem Formation	PZ-100-SD, PZ-104-SD, PZ-106-SD, PZ-111-SD

TABLE 2
Prediction Limit Exceedances - Fourth Quarter 2016
Bridgeton Landfill, LLC
Bridgeton Landfill

Zone	Well	Constituent	Units	Result	Prediction Limit	Repeat from Third Quarter 2016?	Trend
Alluvial	None						
St. Louis Formation	PZ-105-SS	Calcium, Total	mg/L	102	87	Yes	Increasing
		Chloride	mg/L	64.8	26	Yes	Increasing
		Magnesium, Total	mg/L	57	47	Yes	Increasing
		Manganese, Total	mg/L	0.119	0.068	Yes	None
		Sulfate as SO_4	mg/L	48.7	47	Yes	Increasing
		Total Dissolved Solids	mg/L	585	540	Yes	Increasing
	PZ-106-SS	Chloride	mg/L	39.3	17	Yes	Increasing
		Iron, Total	mg/L	2.52	1.40	Yes	Increasing
		Sodium, Total	mg/L	23.2	17.0	Yes	Increasing
		Specific Condutance, Field	umhos/cm	973	950	No	Increasing
	PZ-115-SS	Ammonia	mg/L	1.10	0.34	Yes	Increasing
		Manganese, Total	mg/L	0.128	0.019	Yes	Increasing
	PZ-201A-SS	Boron, Total	mg/L	0.2670	0.050	No	None
Salem Formation	PZ-104-SD	Barium, Total	mg/L	0.647	0.230	Yes	Increasing
		Chloride	mg/L	261	110	Yes	Increasing
		Chromium, Total	mg/L	0.0148	0.0130	Yes	Increasing
		Magnesium, Total	mg/L	65.4	58	Yes	Increasing
		Nickel, Total	mg/L	0.0679	0.0600	Yes	Increasing
		Sodium, Total	mg/L	171	34	Yes	Increasing
		Specific Condutance, Field	umhos/cm	2,110	1,500	Yes	Increasing
		Total Dissolved Solids	mg/L	1,050	780	Yes	Increasing
		Total Organic Carbon	mg/L	65	32	Yes	Increasing
	PZ-106-SD	Ammonia	mg/L	45.0	1.4	Yes	Increasing
		Barium, Total	mg/L	0.470	0.10	Yes	Increasing
		Magnesium, Total	mg/L	67.7	63	Yes	Increasing
		Specific Condutance, Field	mg/L	2,110	1,200	Yes	None
		Total Dissolved Solids	mg/L	1,020	700	Yes	None

Table 3
Organic Constituent Detections at PZ-114-AS - Fourth Quarter 2016
Bridgeton Landfill, LLC
Bridgeton Landfill

Sampling Date	Constituent		
	Benzene	Chlorobenzene	p-Dichlorobenzene (1,4 Dichlorobenzene)
8/25/1997	<5.0	7	<5.0
11/10/1997	<5.0	5.1	<5.0
2/16/1998	<5.0	<5.0	<5.0
5/27/1998	<5.0	<5.0	<5.0
11/12/1998	<5.0	7.2	<5.0
5/19/1999	<5.0	<5.0	<5.0
11/19/1999	<5.0	<5.0	<5.0
5/23/2000	<5.0	<5.0	<5.0
11/13/2000	<5.0	<5.0	<5.0
5/15/2001	<5.0	7.70	<5.0
11/7/2001	<5.0	5.0	<5.0
5/21/2002	<5.0	130	<5.0
7/24/2002*	NA	150	NA
11/19/2002	<5.0	120	5.5
5/28/2003	<5.0	110	6.2
11/20/2003	6.1	120	14
5/11/2004	5.4	130	18
11/17/2004	<5.0	96	11
5/25/2005	<5.0	102	12.2
11/30/2005	<5.0	120	16
5/23/2006	<5.0	95	17
11/8/2006	<5.0	87	12
5/17/2007	<5.0	76	8.7
11/7/2007	<5.0	95	11
5/7/2008	<5.0	64	9.0
11/5/2008	<5.0	72	9.4
5/8/2009	<5.0	43	<5.0
11/4/2009	<5.0	19	<5.0
5/20/2010	<5.0	24	<5.0
11/11/2010	<5.0	64	7.0
5/11/2011	<5.0	17	<5.0
11/18/2011	<5.0	14	<5.0
5/10/2012	<5.0	9.6	<5.0
11/27/2012	<5.0	42	<5.0
4/8/2013	8.9	86	5.4
10/8/2013	<5.0	69	6.3
5/28/2014	6.7	68	6.5
9/23/2014	5.0	58	5.9
11/20/2014	<5.0	46.0	5.5
2/4/2015	<5.0	41.1	<5.0
5/13/2015	<5.0	34.0	<5.0
8/24/2015	<5.0	49.6	5.6
11/20/2015	9.1	67.9	7.1
3/9/2016	6.2	58.8	8.5
6/1/2016	6.7	65.7	8.7
9/6/2016	5.2	44.9	6.3
11/22/2016	<5.0	44.8	5.6

Notes

All results are presented in units of ug/L.

Result above laboratory Reporting Limit (RL).

** Confirmation sampling event.*

NA: Not analyzed. Benzene and p-dichlorobenzene not detected during the previous event, and confirmation not required.

As described in an October 23, 2003 letter from the MDNR, organic constituent detections at well PZ-114-AS appear to be related to impacts from the upgradient PM Resources, Inc. property.

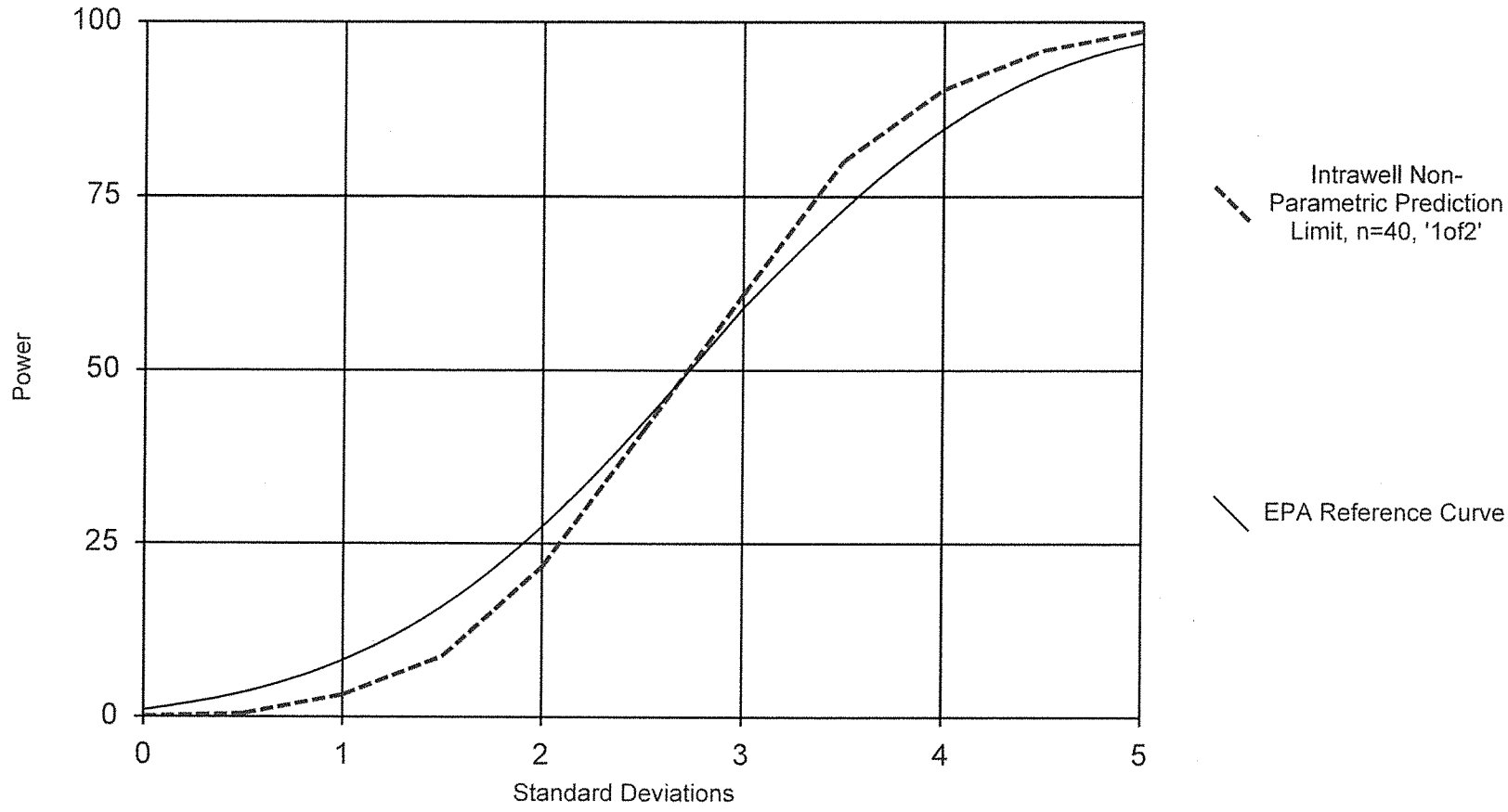
Table 4
Organic Constituent Detections at PZ-104-SS & PZ-104-SD - Fourth Quarter 2016
Bridgeton Landfill, LLC
Bridgeton Landfill

Well	Date	124-Trimethylbenzene	12-Dichloroethane	14-Dichlorobenzene	1-Chlorobutane	2-Hexanone	Acetone	Aroclor 1221 (PCB-1221)	Benzene	Chloroethane	Ethylbenzene	Isopropylbenzene	m+p-Cresols	Methyl ethyl ketone (2-Butanone)	Methyl-iso-butyl ketone	Methyl-tert-butyl ether	p-Isopropyltoluene	Tetrahydrofuran	Toluene	Xylenes [Total]
104-SD	5/11/2012	n/a	<5	<5	n/a	<10	<10	n/a	57	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	5.5	<5
	11/27/2012	6.56	6.7	6	3.44	<10	<10	n/a	350	<10	11	1.36	n/a	<10	<10	4.4	12.2	617	140	31
	4/11/2013	n/a	24	<0.66	n/a	<3.1	59	n/a	1000	<0.8	24	n/a	n/a	37	<2.7	n/a	n/a	n/a	1800	58
	10/7/2013	n/a	<5	5.4	n/a	19	3000	n/a	920	<10	18	n/a	n/a	1900	47	n/a	n/a	n/a	250	42
	5/28/2014	n/a	<5	<5	n/a	<10	<10	n/a	1300	<10	20	n/a	n/a	<10	<10	n/a	n/a	n/a	73	46
	9/24/2014	<5	<5	<5	n/a	<10	11	<0.1	1200	<10	13	<10	21	<10	<10	<10	<10	63	34	25
	11/20/2014	<5	<5	<5	n/a	<10	<10	<0.1	820	<10	11	<5	<10	<10	<10	<5	<5	231	36.5	21
	2/3/2015	<5	<5	<5	n/a	<10	<10	<0.099	542	<10	10	<5	34	<10	<10	<5	<5	420	26.1	20.4
	5/13/2015	<5	<5	<5	<5	<10	<10	<0.2	672	<10	9.4	<5	20.4	<10	<10	<5	<5	301	25.1	22.7
	8/25/2015	n/a	<5	<5	<5	<10	109	n/a	564	<10	7.3	n/a	n/a	70.9	<10	n/a	n/a	n/a	84.3	22
	11/18/2015	<5	<5	<5	<5	<10	<10	<0.2	640	<10	5.4	<5	67.6	<10	<10	5.4	<5	1560	10.5	19.1
	3/1/2016	n/a	<5	<5	<50	<10	<10	n/a	426	<10	<5	n/a	<10	<10	<10	n/a	n/a	n/a	9.6	19.3
	6/3/2016	<5	<5	<5	<5	<10	<10	<0.2	554	<10	<5	<5	<10	<10	<10	5.2	<5	<1000	8.5	24.4
	8/24/2016	n/a	<5	8.9	n/a	<10	<10	n/a	451	<10	7.3	n/a	n/a	<10	<10	n/a	n/a	n/a	9.3	33.7
	11/9/2016	<25 / <5	<25 / <5	<25 / 6.5	<25 / <5	<50	<50 / <10	<0.2 / <0.2	592 / 564	<50	<25 / <5	<25 / <5	<10 / <10	<50 / <10	<50 / <10	<25 / 5.2	<25 / 9.9	2060E / 2030	<25 / 9.7	<25 / 26.8
104-SS	5/11/2012	n/a	<5	<5	n/a	<10	<10	n/a	<5	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	<5	<5
	11/27/2012	n/a	20	8.2	n/a	<10	<10	n/a	1100	<10	18	n/a	n/a	<10	63	n/a	n/a	n/a	78	48
	4/11/2013	n/a	43	6.3	n/a	72	<4	n/a	2400	11	26	n/a	n/a	110	220	n/a	n/a	n/a	140	66
	10/9/2013	n/a	43	7.5	n/a	52	<10	n/a	2200	<10	35	n/a	n/a	<10	210	n/a	n/a	n/a	150	78
	5/28/2014	n/a	<5	6.8	n/a	<10	<10	n/a	1200	<10	24	n/a	n/a	<10	<10	n/a	n/a	n/a	87	59
	9/24/2014	6.3	<5	5.5	n/a	<10	<10	0.18	1500	<10	29	<10	<10	<10	<10	<10	10	2000	130	65
	11/20/2014	<5	<5	<5	n/a	<10	<10	<0.099	1280	<10	20.2	<5	<10	<10	<10	<5	<5	<100	106	47.7
	2/3/2015	5.5	<5	<5	n/a	<10	<10	<0.1	1020	<10	22.6	<5	<10	<10	<10	<5	5.5	<100	91.9	49.9
	5/14/2015	<5	<5	<5	<5	<10	<10	<0.2	935	<10	20.3	<5	<10.1	<10	<10	<5	<5	<100	71.3	32.8
	8/25/2015	n/a	<5	<5	<5	<10	<10	n/a	357	<10	13.2	n/a	n/a	<10	<10	n/a	n/a	n/a	14.7	21.2
	11/18/2015	<5	<5	<5	<5	<10	<10	<0.2	469	<10	8.7	<5	<10	<10	<10	<5	<5	<100	5.2	23.1
	3/1/2016	n/a	<5	<5	<5	<10	<10	n/a	8.3	<10	<5	n/a	<10	<10	<10	n/a	n/a	n/a	<5	15.4
	6/3/2016	<5	<5	5.8	<5	<10	<10	<0.2	44.1	<10	<5	<5	<10	<10	<10	<5	<5	<100	5.7	8.7
	8/24/2016	n/a	<5	9	n/a	<10	<10	n/a	221	<10	7.8	n/a	n/a	<10	<10	n/a	n/a	n/a	17.1	22.1
	11/10/2016	<5	<5	7.1	<5	<10	<10	<0.2	279	<10	5.9	<5	<10	<10	<10	8.6	12.3	<100	21	12.2

Notes:
All results are presented in units of ug/L.
Constituent detected above laboratory reporting limit.
n/a: Detection monitoring wells not analyzed for this constituent during routine detection monitoring events.
p-Cresol reported by laboratory as m+p-Cresols.
According to the laboratory, the PZ-104-SD VOC samples were diluted 10x based on historic concentrations; however the PZ-104-SD Duplicate sample was a blind duplicate. Therefore, the duplicate sample was not diluted prior to analysis by the laboratory. Second set of results for 104-SD above represents the field duplicate results.

APPENDIX A
STATISTICAL POWER CURVES

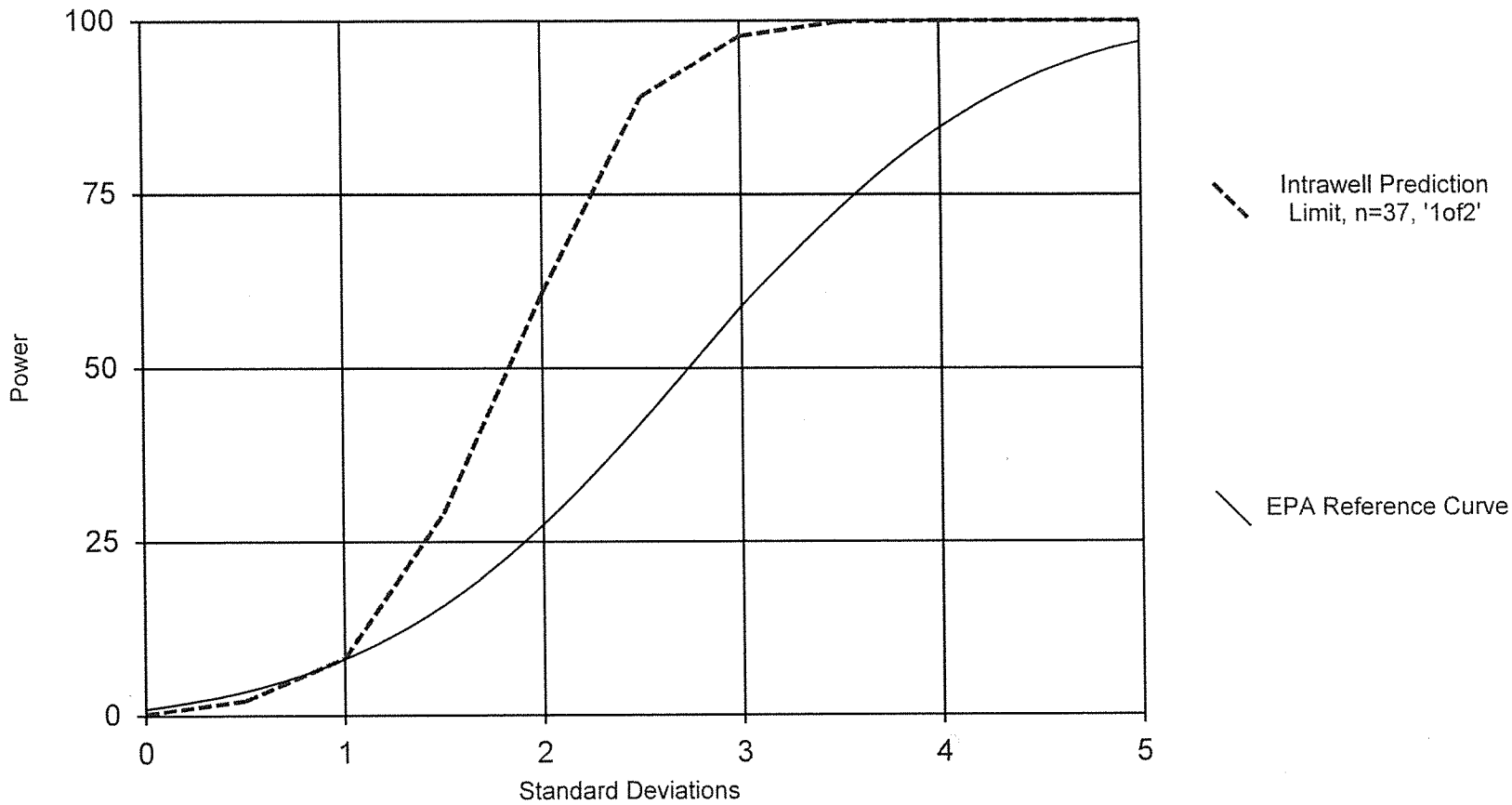
Power Curve



Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

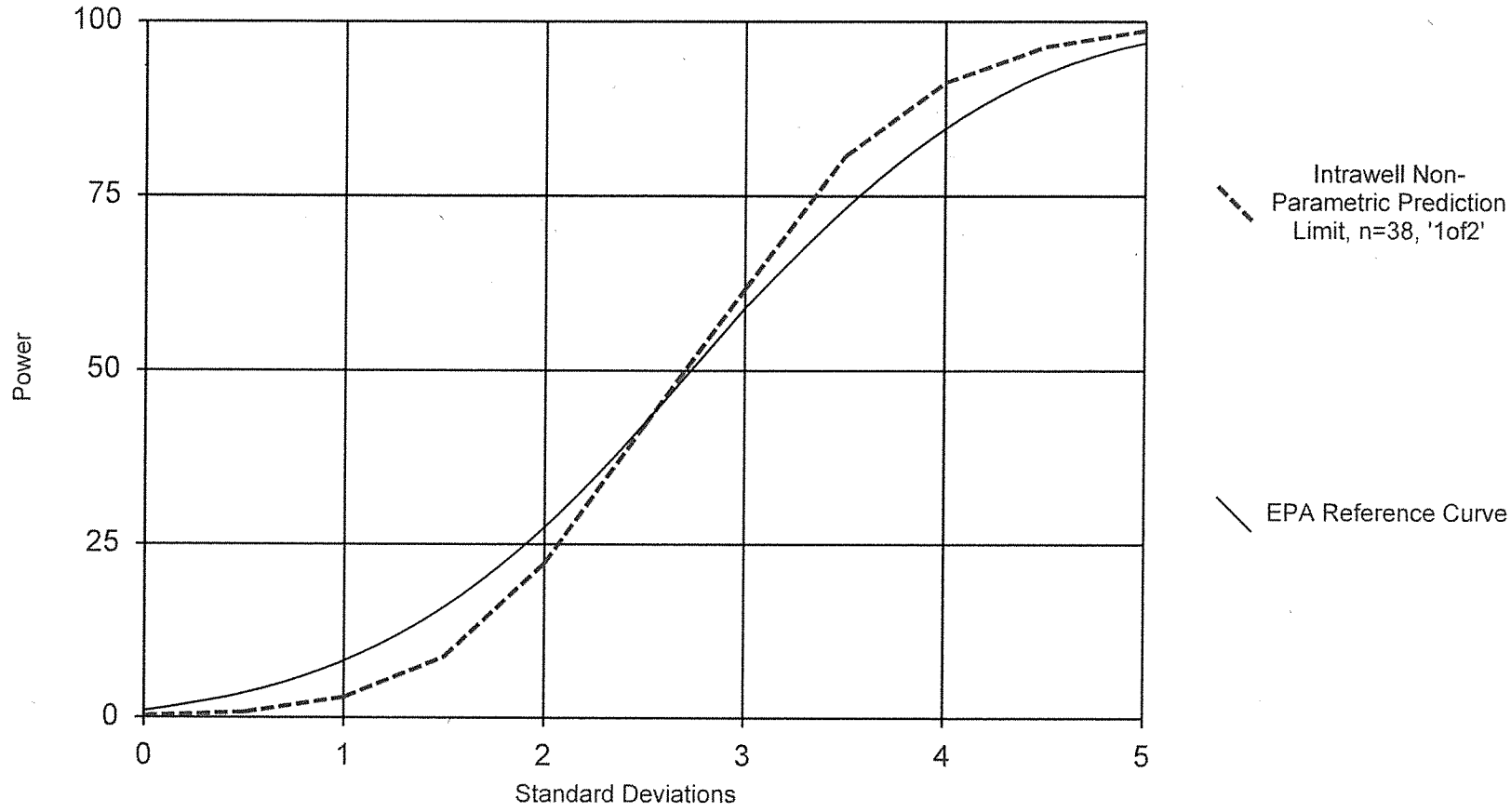


Kappa = 2.092, based on 1 compliance well and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

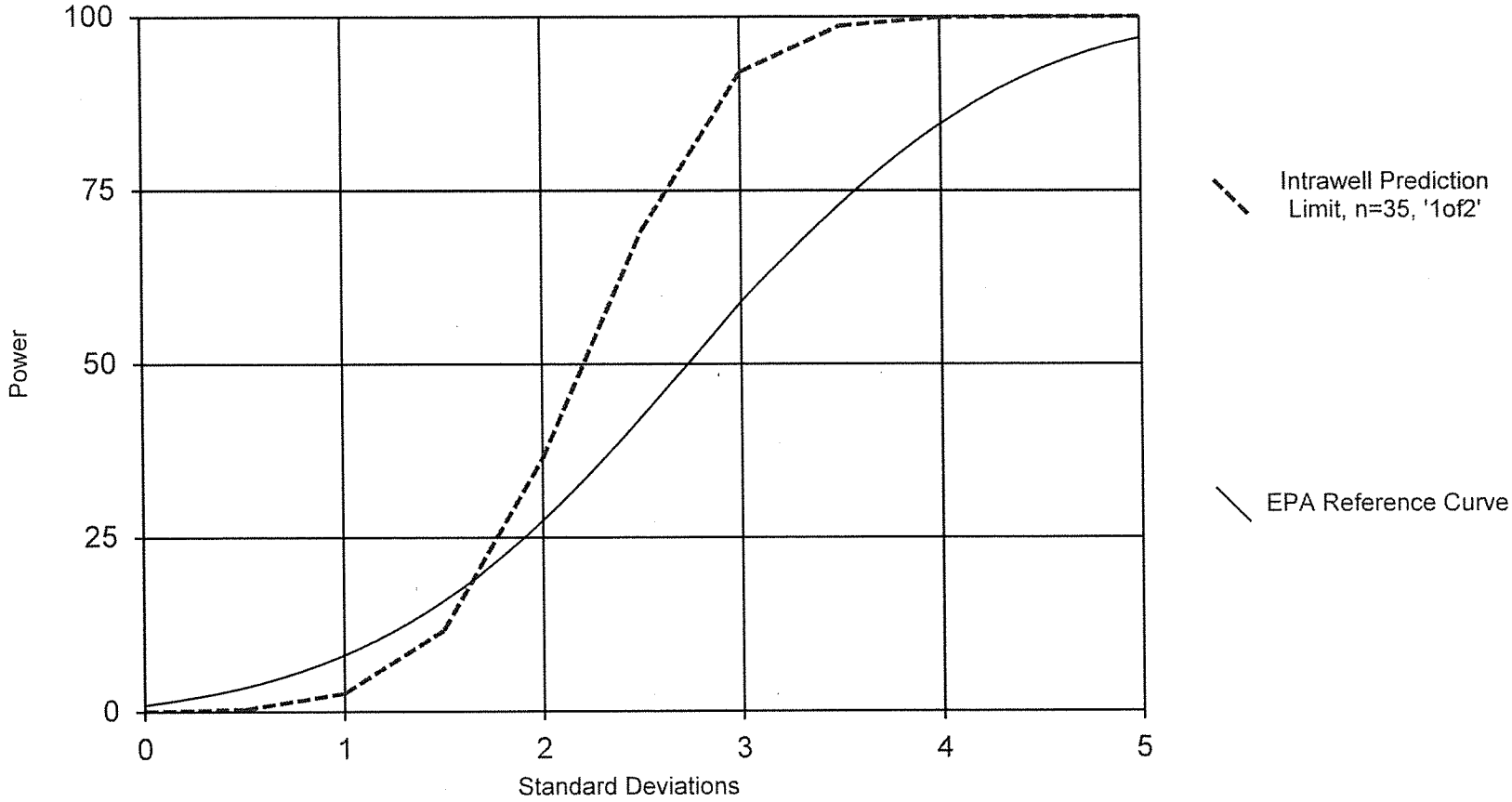
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

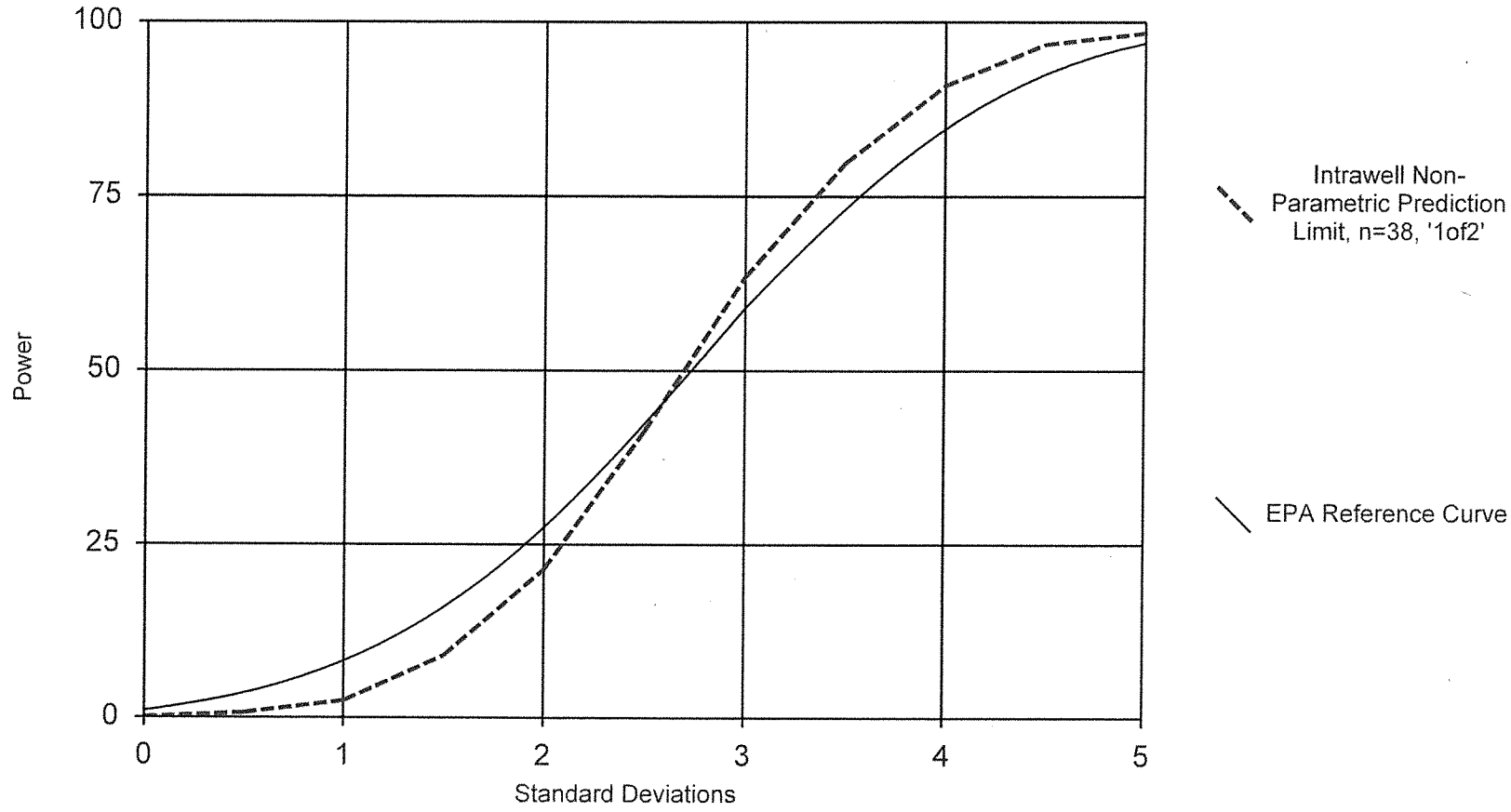


Kappa = 2.466, based on 4 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

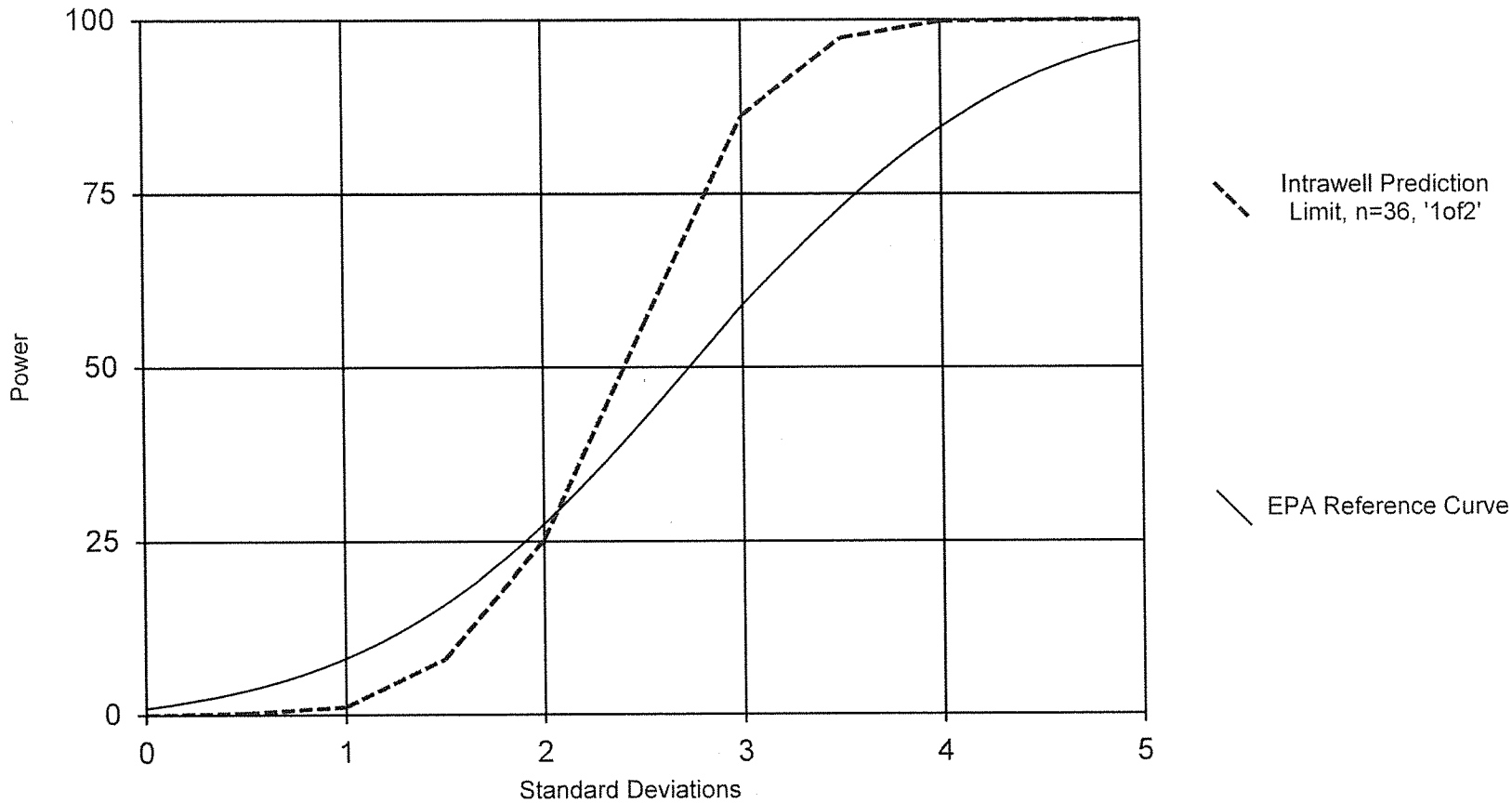
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

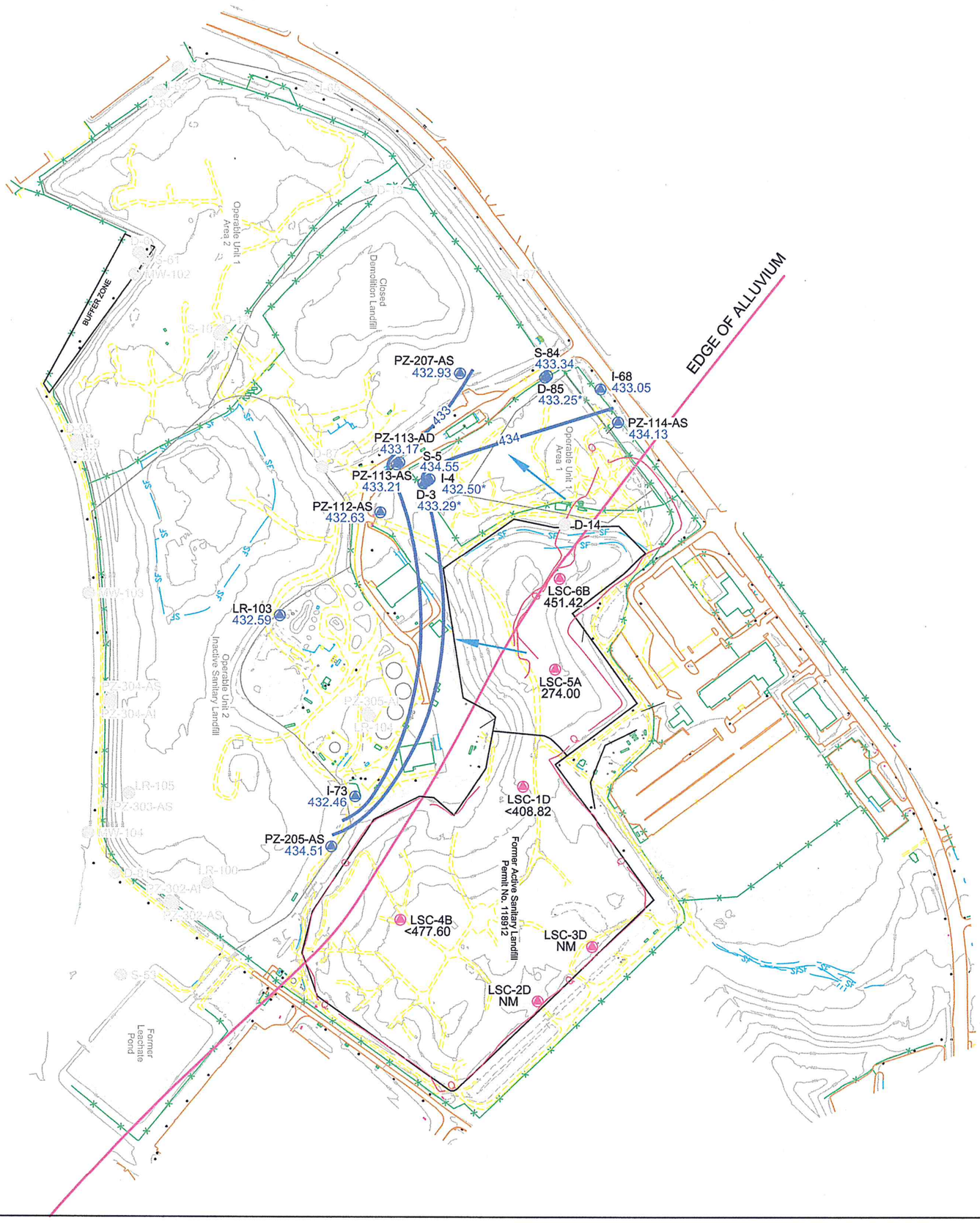


Kappa = 2.654, based on 9 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

APPENDIX B
POTENTIOMETRIC SURFACE MAPS



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT	AS = SHALLOW ALLUVIUM
SD = DEEP SALEM UNIT	AI = INTERMEDIATE ALLUVIUM
KS = KEOKUK UNIT	AD = DEEP ALLUVIUM
LCS = LEACHATE COLLECTION SUMP	LR - LEACHATE RISER

Notes: Depth to water measurements collected on 11/7/16 by Feezor Engineering, Inc.; LCS measurements collected on 11/7/16 - 11/9/16 by Bridgeton Landfill, LLC. Aerial topography provided Cooper Aerial Surveys Co. dated 2/27/16.

* Denotes I-4 and D-3, and D-85 not contoured in the well cluster with S-5 and S-84, respectively, due to deeper installations.

LEGEND

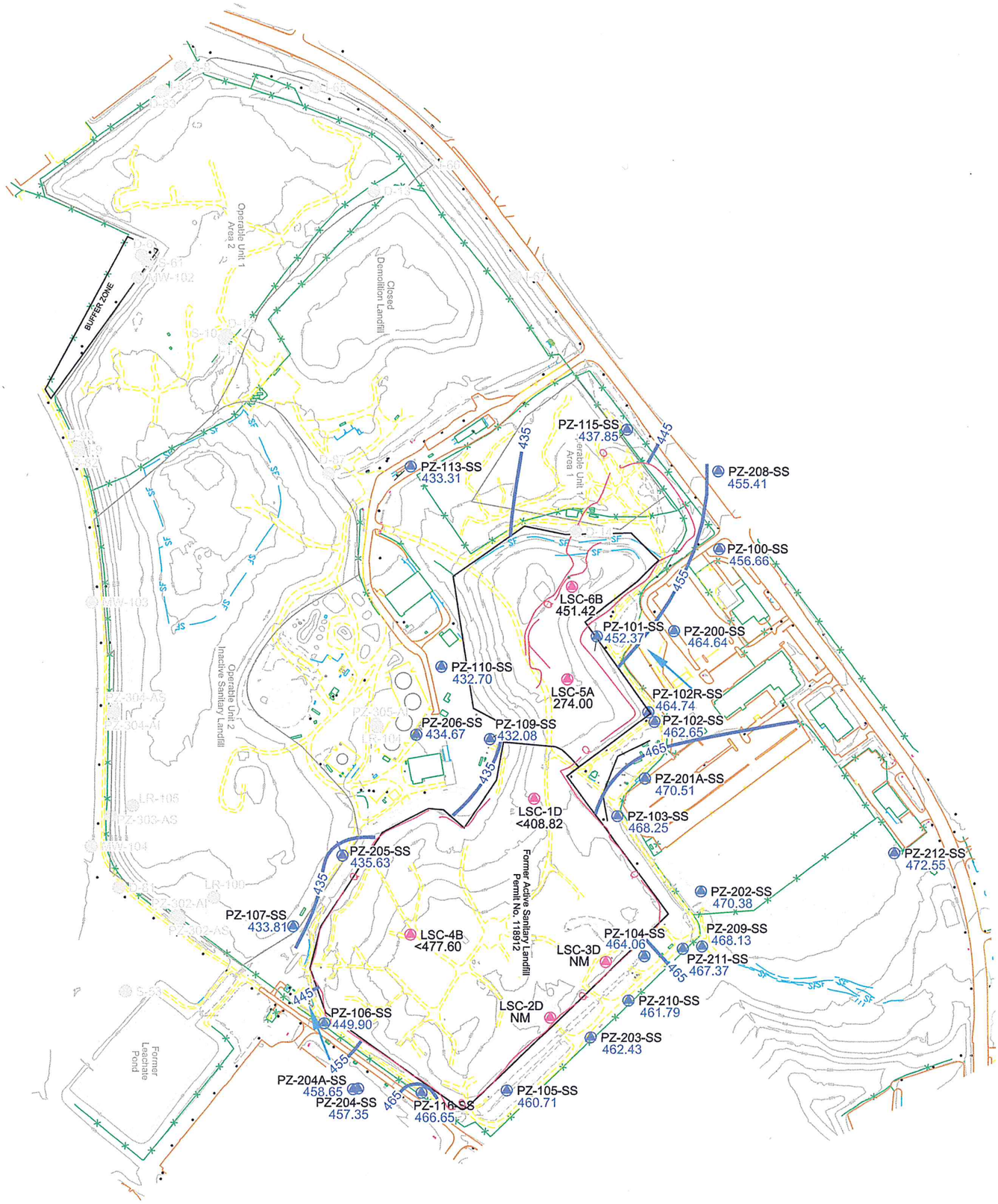
- LEACHATE COLLECTION SUMP
- GROUNDWATER MONITORING WELL
- 462.17 GROUNDWATER ELEVATION (FMSL)
- 434 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
- INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

JETT ENVIRONMENTAL CONSULTING
10 Quiet Brook Court
St. Charles, MO 63303
314-496-4654
www.jettenviro.com

Fourth Quarter 2016
Alluvial Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT	AS = SHALLOW ALLUVIUM
SD = DEEP SALEM UNIT	AI = INTERMEDIATE ALLUVIUM
KS = KEOKUK UNIT	AD = DEEP ALLUVIUM
LCS = LEACHATE COLLECTION SUMP	LR - LEACHATE RISER

Notes: Depth to water measurements collected on 11/7/16 by Feezor Engineering, Inc.; LCS measurements collected on 11/7/16 - 11/9/16 by Bridgeton Landfill, LLC. Aerial topography provided Cooper Aerial Surveys Co. dated 2/27/16.

LEGEND

- LEACHATE COLLECTION SUMP
- GROUNDWATER MONITORING WELL
- 462.17 GROUNDWATER ELEVATION (FMSL)
- 455 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
- INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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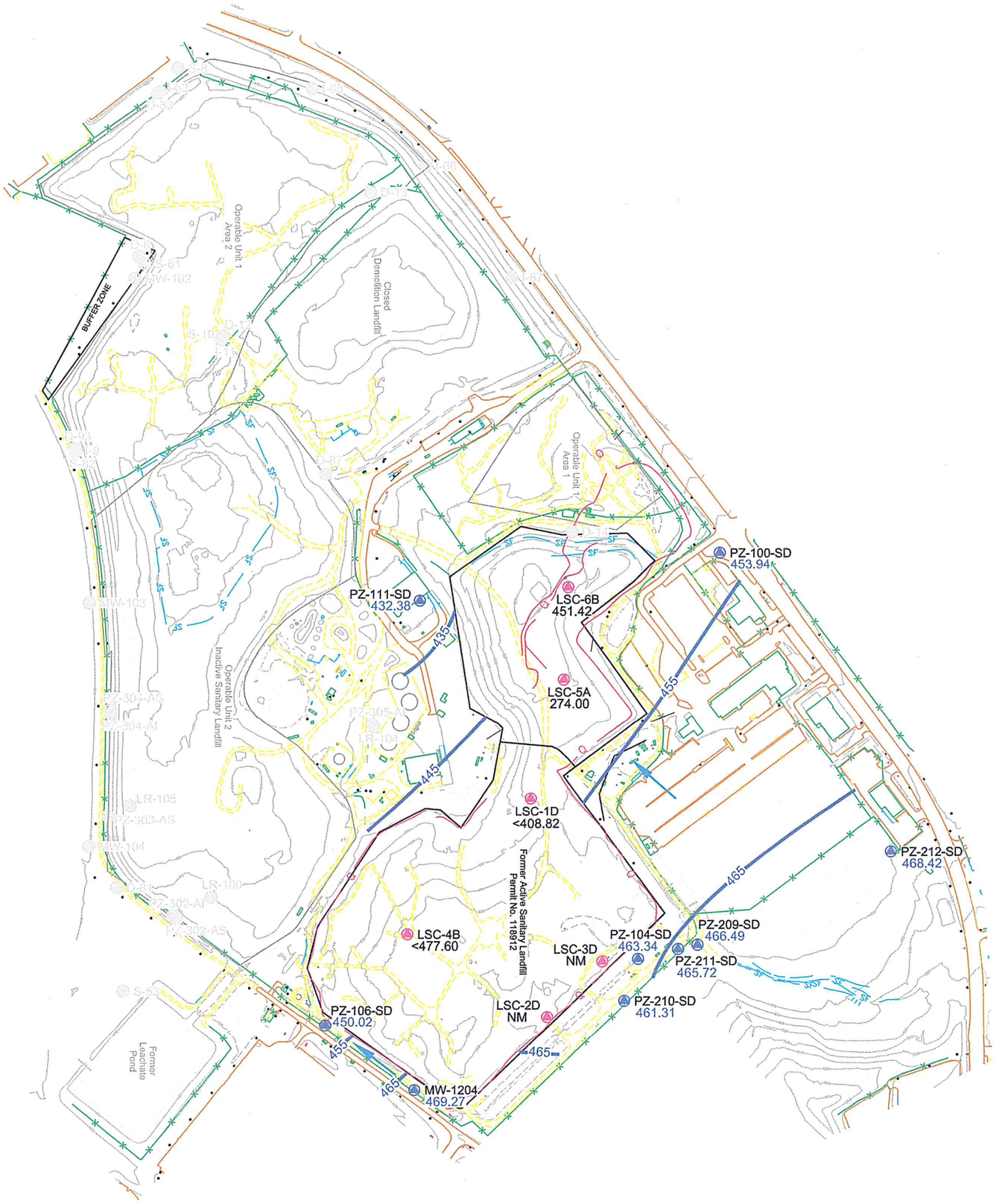
Fourth Quarter 2016
St. Louis/Upper Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT	AS = SHALLOW ALLUVIUM
SD = DEEP SALEM UNIT	AI = INTERMEDIATE ALLUVIUM
KS = KEOKUK UNIT	AD = DEEP ALLUVIUM
LCS = LEACHATE COLLECTION SUMP	LR - LEACHATE RISER

Notes: Depth to water measurements collected on 11/7/16 by Feezor Engineering, Inc.;
LCS measurements collected on 11/7/16 - 11/9/16 by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 2/27/16.

LEGEND

- LEACHATE COLLECTION SUMP
- GROUNDWATER MONITORING WELL
- 462.17 GROUNDWATER ELEVATION (FMSL)
- 455 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
- INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800
Scale in Feet
Graphic Scale: 1 inch = 400 feet

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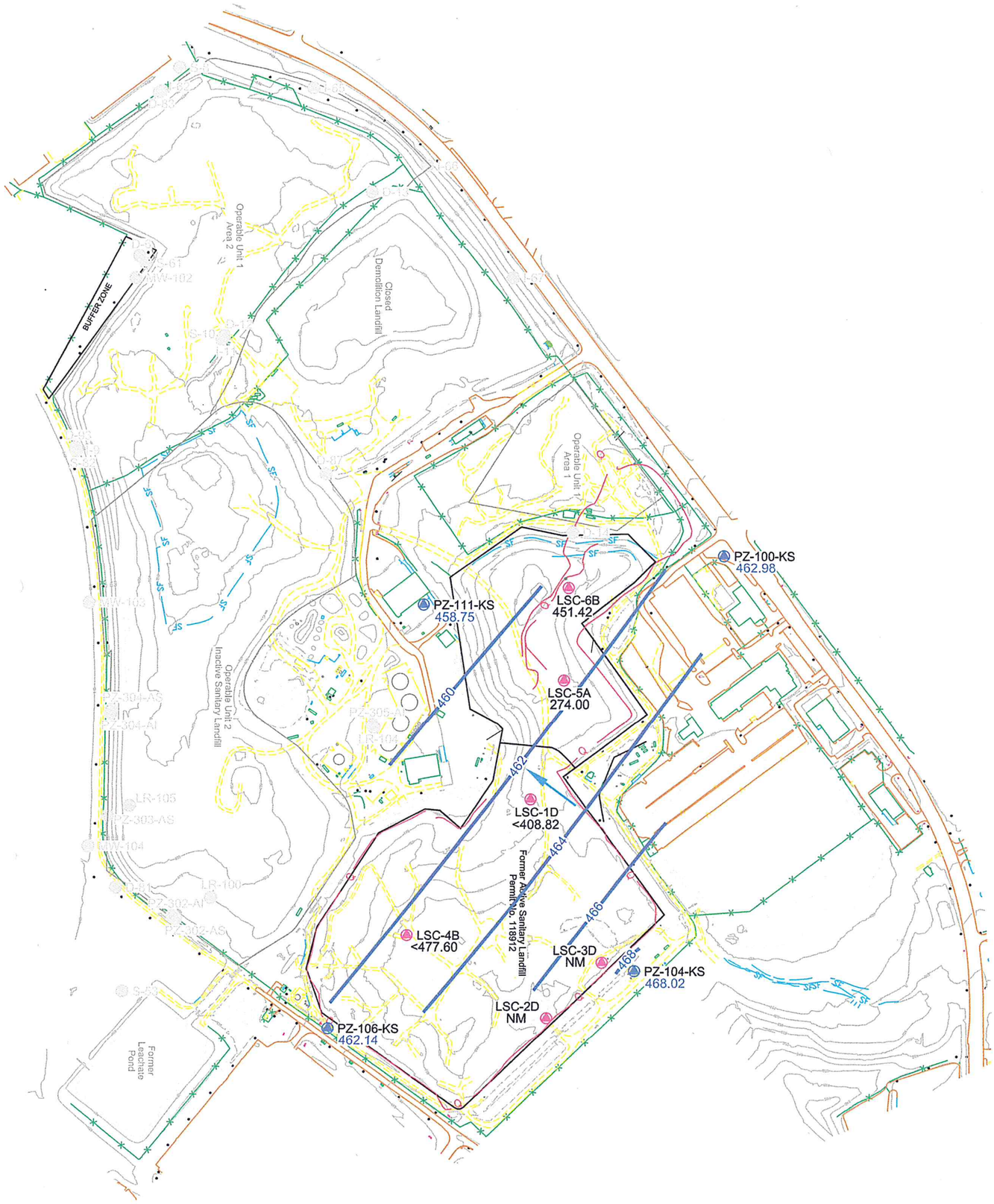
Fourth Quarter 2016
Deep Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT	AS = SHALLOW ALLUVIUM
SD = DEEP SALEM UNIT	AI = INTERMEDIATE ALLUVIUM
KS = KEOKUK UNIT	AD = DEEP ALLUVIUM
LCS = LEACHATE COLLECTION SUMP	LR - LEACHATE RISER

Notes: Depth to water measurements collected on 11/7/16 by Feezor Engineering, Inc.; LCS measurements collected on 11/7/16 - 11/9/16 by Bridgeton Landfill, LLC. Aerial topography provided Cooper Aerial Surveys Co. dated 2/27/16.

LEGEND

- LEACHATE COLLECTION SUMP
- GROUNDWATER MONITORING WELL
- 462.17 GROUNDWATER ELEVATION (FMSL)
- 460 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
- INFERRED GROUNDWATER FLOW DIRECTION

NORTH

0 100 200 400 800

Scale in Feet
Graphic Scale: 1 inch = 400 feet

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Fourth Quarter 2016
Keokuk Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

Groundwater Elevation Summary Table
Bridgeton Landfill, LLC

Well	Top of PVC Casing Elevation[1] (fmsl)	Depth to Water[2] (ft)	Groundwater Elevation (fmsl)
D-3	468.74	35.45	433.29
D-85	457.67	24.42	433.25
I-4	465.32	32.82	432.50
I-68	450.60	17.55	433.05
I-73	461.96	29.50	432.46
LR-103	470.64	38.05	432.59
MW-1204	478.04	8.77	469.27
PZ-100-KS	486.36	23.38	462.98
PZ-100-SD	486.49	32.55	453.94
PZ-100-SS	486.55	29.89	456.66
PZ-101-SS	491.56	39.19	452.37
PZ-102R-SS	486.45	21.71	464.74
PZ-102-SS	484.65	22.00	462.65
PZ-103-SS	484.21	15.96	468.25
PZ-104-KS	484.60	16.58	468.02
PZ-104-SD	484.15	20.81	463.34
PZ-104-SS	484.00	19.94	464.06
PZ-105-SS	484.04	23.33	460.71
PZ-106-KS	464.73	2.59	462.14
PZ-106-SD	463.84	13.82	450.02
PZ-106-SS	463.11	13.21	449.90
PZ-107-SS	465.41	31.60	433.81
PZ-109-SS	460.19	28.11	432.08
PZ-110-SS	461.46	28.76	432.70
PZ-111-KS	465.80	7.05	458.75
PZ-111-SD	466.57	34.19	432.38
PZ-112-AS	462.53	29.90	432.63
PZ-113-AD	462.24	29.07	433.17
PZ-113-AS	462.19	28.98	433.21
PZ-113-SS	462.66	29.35	433.31
PZ-114-AS	452.14	18.01	434.13
PZ-115-SS	452.90	15.05	437.85
PZ-116-SS	478.21	11.56	466.65
PZ-200-SS	486.23	21.59	464.64
PZ-201A-SS	482.33	11.82	470.51
PZ-202-SS	481.82	11.44	470.38
PZ-203-SS	487.19	24.76	462.43
PZ-204A-SS	463.09	4.45	458.64
PZ-204-SS	465.28	7.93	457.35
PZ-205-AS	464.77	30.26	434.51
PZ-205-SS	465.83	30.20	435.63
PZ-206-SS	463.42	28.75	434.67
PZ-207-AS	462.65	29.72	432.93
PZ-208-SS	475.19	19.78	455.41
PZ-209-SS	489.68	21.55	468.13
PZ-209-SD	489.58	23.09	466.49
PZ-210-SS	486.90	25.11	461.79
PZ-210-SD	487.00	25.69	461.31
PZ-211-SS	487.41	20.04	467.37
PZ-211-SD	487.46	21.74	465.72
PZ-212-SS	482.79	10.24	472.55
PZ-212-SD	482.72	14.30	468.42
S-5	465.75	31.20	434.55
S-84	457.45	24.11	433.34

Notes:

1 - Top of PVC casing elevations are from surveys performed on 8/13, 8/21-22, 8/29, and 8/31/2012; 10/21-10/22/2013; 9/15/2014; 11/12/2014; 4/7/2016; and 9/18/2016.

2 - Depth to water measurements recorded by Feezor Engineering, Inc. on 11/7/2016.

FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
D-3	11/7/2016	1150	35.45	35.30	107.69	107.70	
D-81		1436	18.36	18.25	62.55	62.73	
D-85		0839	24.42	23.85	76.74	~~23.09~~	
D-87		0904	32.14	31.67	115.06	114.61	
I-4		1149	32.82	32.67	35.96	35.95*	*Apparent blockage in PVC.
I-67		0846	9.19	11.45	40.45	40.59	Previous Event = Sept 2013
I-68		0850	17.55	17.05	40.46	40.45	
I-73		0938	29.50	29.08	50.55	50.75	
LR-100		1206	16.27	15.76	26.99	26.99	
LR-103		1212	38.05	37.71	49.82	49.82	
MW-103		1452	6.51	8.85	14.41	14.45	Previous Event = Sept 2013
MW-104		1439	8.39	8.35	19.15	19.15	
MW-1204		1012	8.77	7.55	215.18	215.19	
PZ-100-KS		1322	23.38	22.95	383.68	383.90	
PZ-100-SD		1330	32.55	31.51	96.42 (Top of Pump)	96.19 (Top of Pump)	
PZ-100-SS		1332	29.94	29.14	89.12 (Top of Pump)	89.13 (Top of Pump)	
PZ-101-SS		1124	39.19	37.68	155.43	155.49	
PZ-102-SS		1116	22.00	20.82	91.28	91.25	
PZ-102R-SS		1118	21.91	20.64	90.94	91.10	
PZ-103-SS		1111	15.96	13.71	149.62	149.66	
PZ-104-KS		1040	16.58	16.24	93.09 (Top of Pump)	93.09 (Top of Pump)	
PZ-104-SD		1042	20.81	20.94	120.68 (Top of Pump)	120.66 (Top of Pump)	
PZ-104-SS		1045	19.94	19.49	140.32 (Top of Pump)	140.35 (Top of Pump)	
PZ-105-SS		1024	23.33	23.84	144.86 (Top of Pump)	144.83 (Top of Pump)	
PZ-106-KS		0955	2.54	2.15	375.00	374.99	
PZ-106-SD		1001	13.82	13.49	196.48 (Top of Pump)	196.29 (Top of Pump)	
PZ-106-SS		1007	13.21	12.85	161.42 (Top of Pump)	161.42 (Top of Pump)	
PZ-107-SS		0949	31.60	31.39	103.80	103.67	
PZ-109-SS	11/7/2016	0929	28.11	24.97	130.98 (Top of Pump)	130.99 (Top of Pump)	

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FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
PZ-110-SS	11/7/2016	0924	29.76	28.28	107.19 (Top of Pump)	107.23 (Top of Pump)	
PZ-111-KS		1512	7.05	6.85	374.61	374.50	
PZ-111-SD		1519	34.19	33.03	197.28 (Top of Pump)	198.83 (Top of Pump)	
PZ-112-AS		0909	29.90	29.38	38.35	38.41	WL > 29.90
PZ-113-AD		0917	29.07	28.55	110.11	110.11	
PZ-113-AS		0919	28.98	28.50	38.95	39.17	
PZ-113-SS		0913	29.35	28.75	160.25	160.21	
PZ-114-AS		0854	18.01	17.48	26.32 (Top of Pump)	26.32 (Top of Pump)	
PZ-115-SS		0856	15.05	14.29	81.11 (Top of Pump)	81.04 (Top of Pump)	
PZ-116-SS		1018	11.56	10.30	142.60 (Top of Pump)	142.64 (Top of Pump)	
PZ-200-SS		1337	21.59	20.69	99.29	99.30	Labeled as GMP-7.
PZ-201A-SS		1343	11.82	10.03	86.12 (Top of Pump)	86.34 (Top of Pump)	
PZ-202-SS		1104	11.44	11.43	85.15 (Top of Pump)	85.22 (Top of Pump)	
PZ-203-SS		1029	24.76	25.02	111.12	111.10	
PZ-204-SS		1421	7.93	8.12	87.99	87.98	
PZ-204A-SS		1418	4.45	4.55	84.51	84.33	
PZ-205-AS		0944	30.26	29.06	53.89	53.88	
PZ-205-SS		0942	30.20	29.52	92.98 (Top of Pump)	93.00 (Top of Pump)	
PZ-206-SS		0933	28.75	27.94	129.87	129.74	TD: 129.87
PZ-207-AS		0931	29.72	29.12	38.93	38.92	
PZ-208-SS		1350	19.75	19.64	100.37	100.38	
PZ-209-SD		1059	23.09	23.05	101.42 (Top of Pump)	101.40 (Top of Pump)	
PZ-209-SS		1057	21.55	21.14	99.91 (Top of Pump)	99.88 (Top of Pump)	
PZ-210-SD		1036	25.69	26.03	106.8 (Top of Pump)	101.57 (Top of Pump)	101.65 = TD
PZ-210-SS		1034	25.11	25.12	101.49 (Top of Pump)	101.50 (Top of Pump)	
PZ-211-SD		1052	21.74	21.71	99.33 (Top of Pump)	99.35 (Top of Pump)	
PZ-211-SS		1050	20.04	19.57	98.15 (Top of Pump)	98.15 (Top of Pump)	
PZ-212-SD		1405	14.30	14.13	92.80 (Top of Pump)	92.80 (Top of Pump)	
PZ-212-SS	11/7/2016	1403	10.24	10.72	93.74 (Top of Pump)	93.76 (Top of Pump)	

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FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
PZ-302-AI	11/7/2016	1432	18.59	18.44	44.15	44.09	
PZ-302-AS		1430	18.72	18.46	24.50	24.51	
PZ-303-AS	1537/14 ②		21.08	21.85	28.25	28.30	petroleum odor
PZ-304-AI		1445	21.56	21.37	51.98	51.99	
PZ-304-AS		1448	21.28	21.09	29.21	29.21	
S-5		1447	31.20	32.44	43.62	43.54	
S-53		1459	11.72	11.59	18.02	18.00	
S-84	11/7/2016	0836	24.11	23.55	32.74	32.90	

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APPENDIX C
STATISTICAL EVALUATIONS
ALLUVIAL ZONE

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	**114-AS (bg)**	**0.1801**	**228**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Antimony Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**114-AS (bg)**	**8.736**	**461**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	114-AS (bg)	-5.956	-105	-201	No	40	0	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	114-AS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	114-AS (bg)	1.752	97	201	No	40	0	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	114-AS (bg)	0	-23	-201	No	40	92.5	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**114-AS (bg)**	**-5729**	**-357**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	114-AS (bg)	1.213	105	201	No	40	7.5	n/a	n/a	0.02	NP
Chloride (mg/L)	114-AS (bg)	0.3415	24	201	No	40	0	n/a	n/a	0.02	NP
Chromium Total (ug/L)	114-AS (bg)	0	-26	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	**114-AS (bg)**	**-0.5659**	**-257**	**-201**	**Yes**	**40**	**37.5**	**n/a**	**n/a**	**0.02**	**NP**
Copper Total (ug/L)	114-AS (bg)	0	-63	-201	No	40	87.5	n/a	n/a	0.02	NP
Fluoride (mg/L)	114-AS (bg)	-0.00...	-78	-186	No	38	18.42	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**114-AS (bg)**	**-21.28**	**-349**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	**114-AS (bg)**	**4003**	**315**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Lead Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	97.5	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**114-AS (bg)**	**-1865**	**-374**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**114-AS (bg)**	**-200.1**	**-316**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	114-AS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	114-AS (bg)	0	-18	-201	No	40	62.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	114-AS (bg)	0	-70	-201	No	40	82.5	n/a	n/a	0.02	NP
pH [Field] (su)	114-AS (bg)	0.009101	132	201	No	40	0	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**114-AS (bg)**	**0.09466**	**401**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Selenium Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	114-AS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	114-AS (bg)	-1530	-101	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	114-AS (bg)	-24.95	-118	-201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**114-AS (bg)**	**-1.916**	**-459**	**-201**	**Yes**	**40**	**37.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**114-AS (bg)**	**-0.08238**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**114-AS (bg)**	**-21.33**	**-230**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	114-AS (bg)	0.2132	83	201	No	40	10	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	114-AS (bg)	0	30	201	No	40	95	n/a	n/a	0.02	NP
Zinc Total (ug/L)	114-AS (bg)	0	-135	-201	No	40	90	n/a	n/a	0.02	NP

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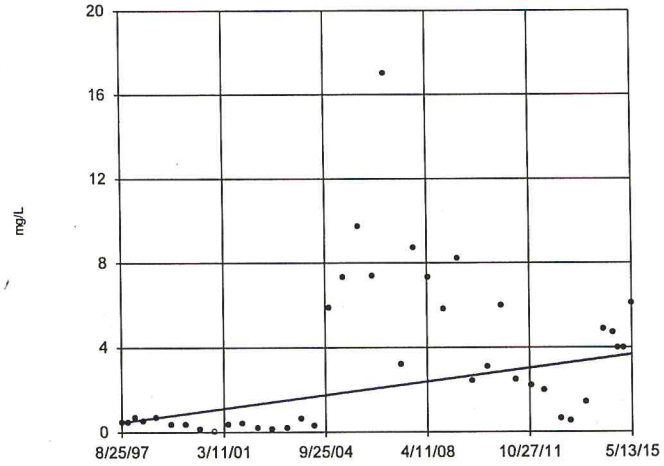
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 0.1801 units per year.

Mann-Kendall statistic = 228 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Ammonia as N Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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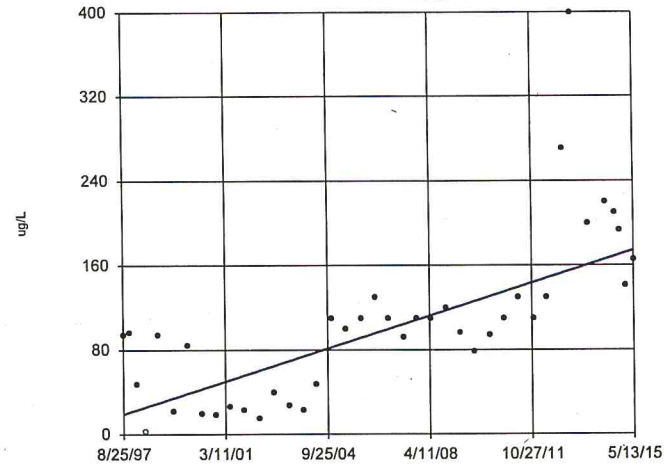
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 8.736 units per year.

Mann-Kendall statistic = 461 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Arsenic Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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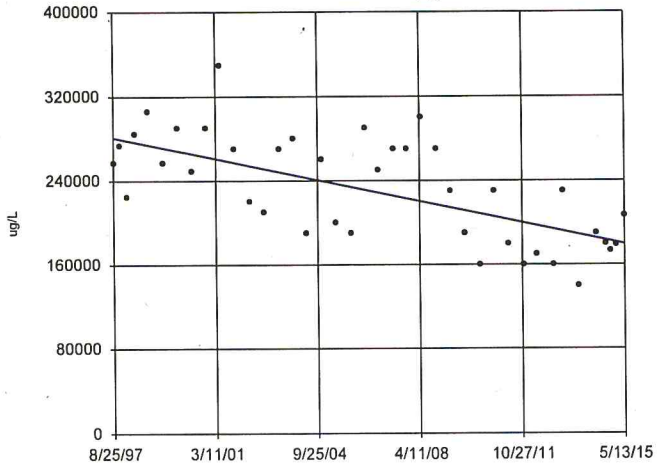
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -5729 units per year.

Mann-Kendall statistic = -357 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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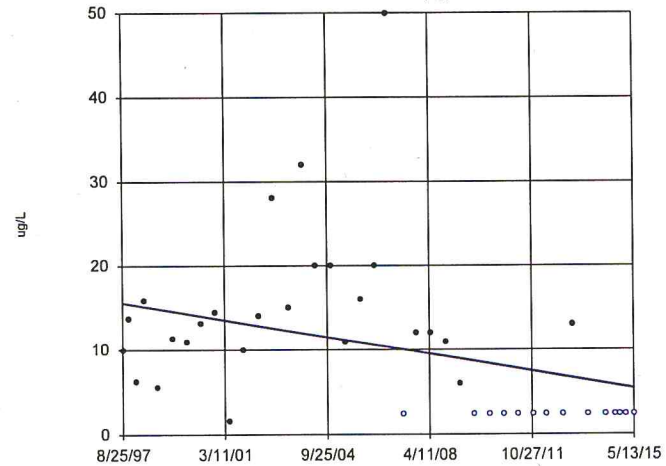
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -0.5659 units per year.

Mann-Kendall statistic = -257 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Cobalt Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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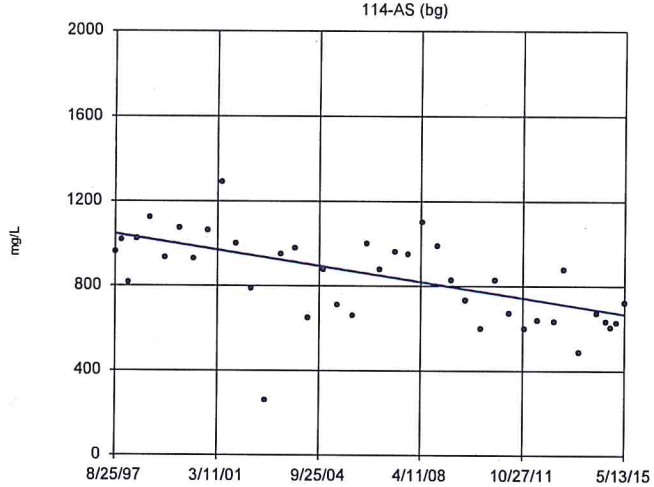
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -21.28 units per year.

Mann-Kendall statistic = -349 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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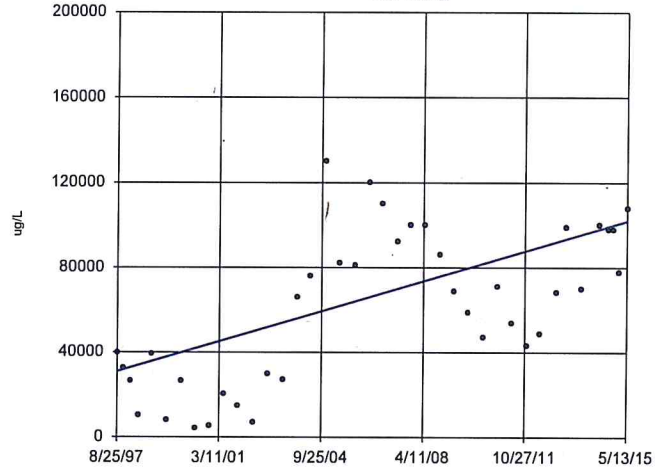
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 4003 units per year.

Mann-Kendall statistic = 315 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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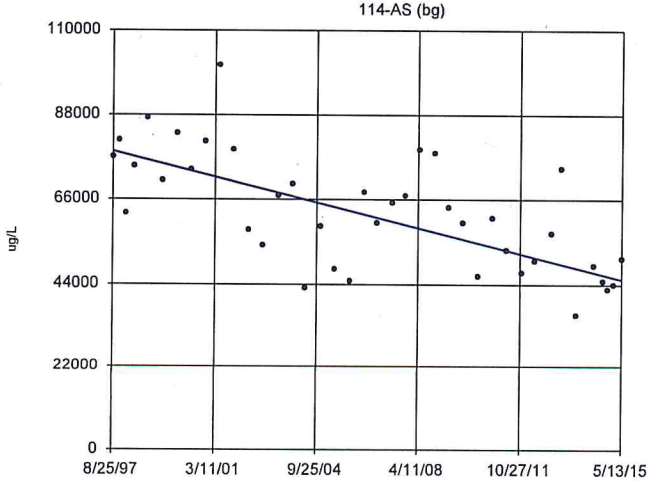
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -1865 units per year.

Mann-Kendall statistic = -374 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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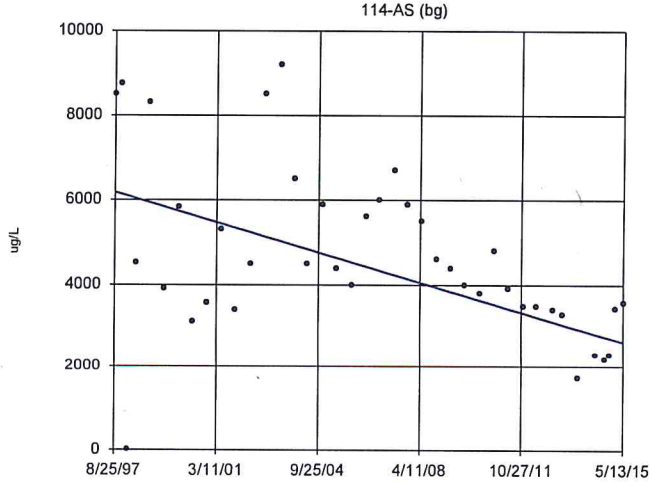
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -200.1 units per year.

Mann-Kendall statistic = -316 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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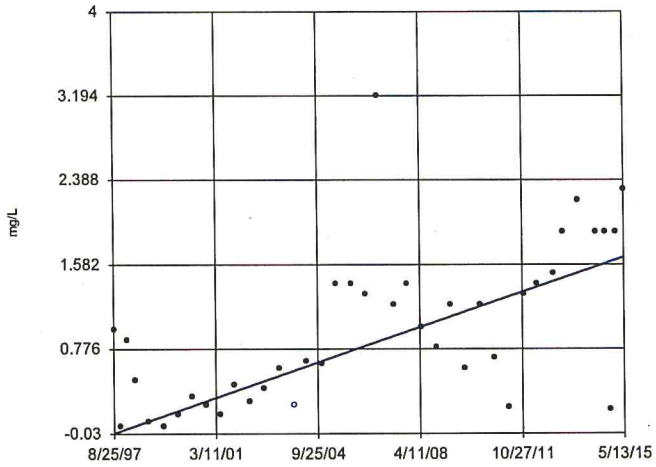
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 0.09466 units per year.

Mann-Kendall statistic = 401 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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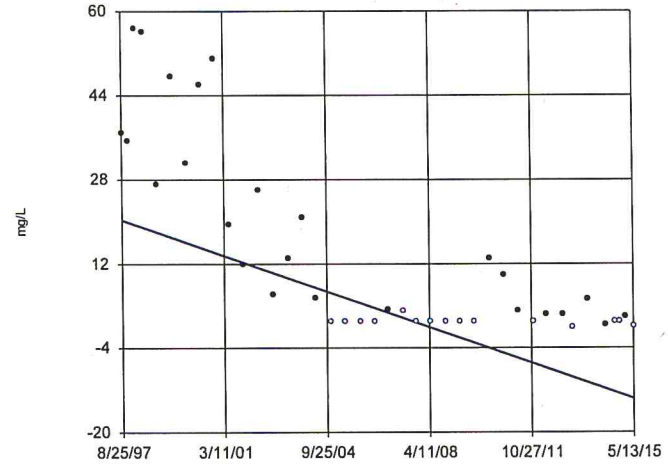
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -1.916 units per year.

Mann-Kendall statistic = -459 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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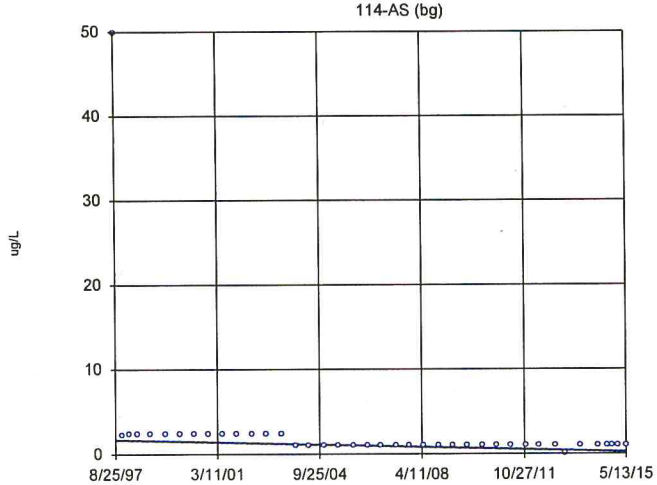
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -0.08238 units per year.

Mann-Kendall statistic = -378 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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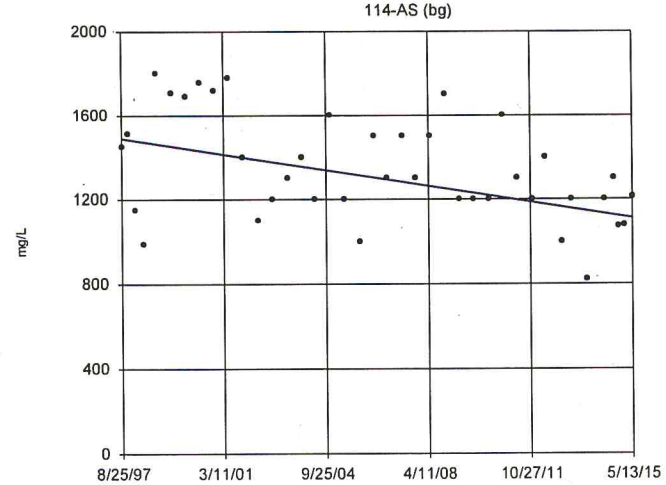
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -21.33 units per year.

Mann-Kendall statistic = -230 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

Alluvial Zone

- Ammonia as N at PZ-114-AS (8/97 through 9/14)
- Arsenic (Total) at PZ-114-AS (8/97 through 11/07)
- Iron (Total) at PZ-114-AS (8/97 through 5/06)
- Phosphorus (Total) at PZ-114-AS (8/97 through 11/05)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:08 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	114-AS	31	n/a	11/22/2016	5.9	No	37	0.2618	1.512	2.703	None	ln(x)	0.0007744	Param Intra 1 of 2
Antimony Total (ug/L)	114-AS	50	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	114-AS	190	n/a	11/22/2016	106	No	23	7.394	2.888	4.348	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Barium Total (ug/L)	114-AS	1100	n/a	11/22/2016	47.9	No	40	6.583	0.2171	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Beryllium Total (ug/L)	114-AS	1.0	n/a	11/22/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	114-AS	660	n/a	11/22/2016	103	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Cadmium Total (ug/L)	114-AS	5.9	n/a	11/22/2016	0.1ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	114-AS	340000	n/a	11/22/2016	66000	No	40	232475	50510	0	None	No	0.0007744	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	114-AS	250	n/a	11/22/2016	35.2	No	40	3.906	1.151	7.5	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Chloride (mg/L)	114-AS	600	n/a	11/22/2016	433	No	40	18.41	2.965	0	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Chromium Total (ug/L)	114-AS	5.4	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	114-AS	50	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	37.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Copper Total (ug/L)	114-AS	110	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	114-AS	0.45	n/a	11/22/2016	0.05ND	No	25	0.2589	0.08723	8	None	No	0.0007744	Param Intra 1 of 2
Hardness Total (mg/L)	114-AS	1300	n/a	11/22/2016	324	No	40	828.3	205.5	0	None	No	0.0007744	Param Intra 1 of 2
Iron Total (ug/L)	114-AS	170000	n/a	11/22/2016	893	No	20	31.84	10.42	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Lead Total (ug/L)	114-AS	25	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	114-AS	98000	n/a	11/22/2016	38700	No	40	39.5	3.161	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Manganese Total (ug/L)	114-AS	10000	n/a	11/22/2016	128	No	39	8.401	0.3974	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Mercury Total (ug/L)	114-AS	0.10	n/a	11/22/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	114-AS	84	n/a	11/22/2016	5ND	No	40	n/a	n/a	62.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	114-AS	5.0	n/a	11/22/2016	0.05ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	114-AS	7	6.2	11/22/2016	6.64	No	37	1.888	0.02947	0	None	ln(x)	0.0003872	Param Intra 1 of 2
Phosphorus Total (mg/L)	114-AS	2	n/a	11/22/2016	1.7	No	19	0.7295	0.2274	5.263	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Selenium Total (ug/L)	114-AS	50	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	114-AS	5.0	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	114-AS	330000	n/a	11/22/2016	59700	No	40	12.09	0.2948	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	114-AS	3400	n/a	11/22/2016	2320	No	39	2313	528.9	0	None	No	0.0007744	Param Intra 1 of 2
Sulfate (mg/L)	114-AS	57	n/a	11/22/2016	0.125ND	No	40	n/a	n/a	37.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Thallium Total (ug/L)	114-AS	50	n/a	11/22/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	114-AS	2000	n/a	11/22/2016	1310	No	40	7.186	0.1882	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	114-AS	44	n/a	11/22/2016	7.9	No	40	2.244	0.6242	10	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Vanadium Total (ug/L)	114-AS	12	n/a	11/22/2016	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	114-AS	48	n/a	n/a	1 future	n/a	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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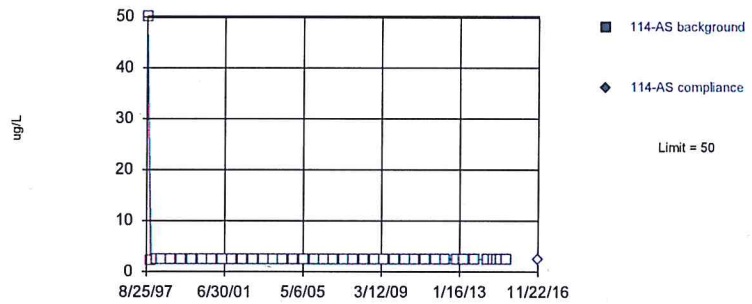
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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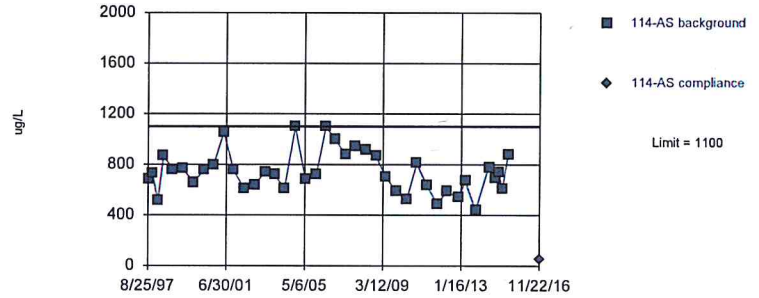
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.583, Std. Dev.=0.2171, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9819, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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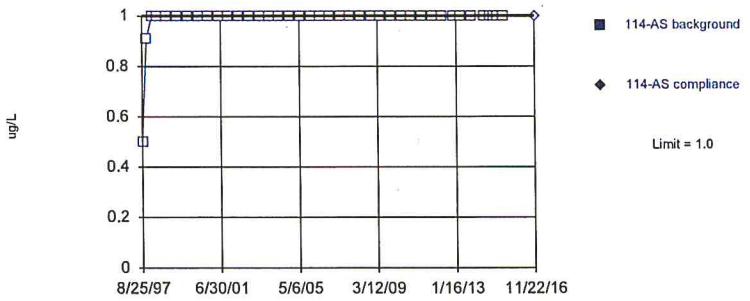
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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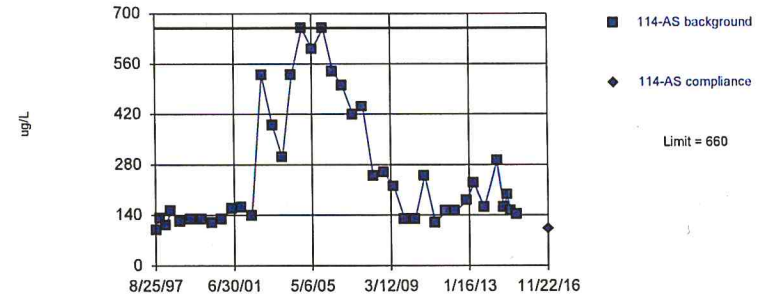
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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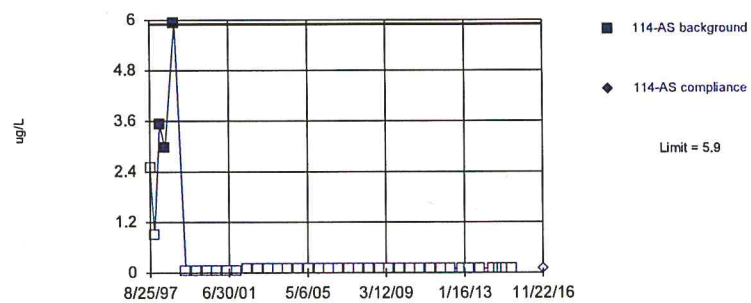
Hollow symbols indicate censored values.

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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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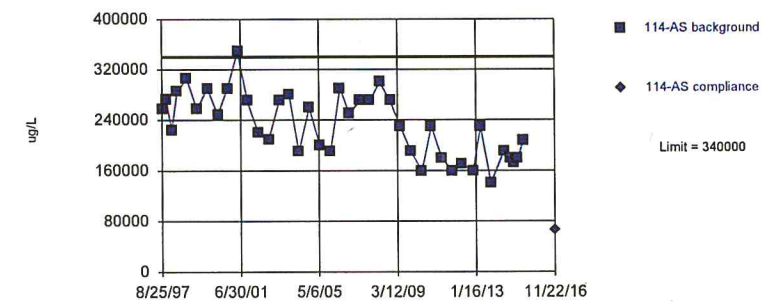
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=232475, Std. Dev.=50510, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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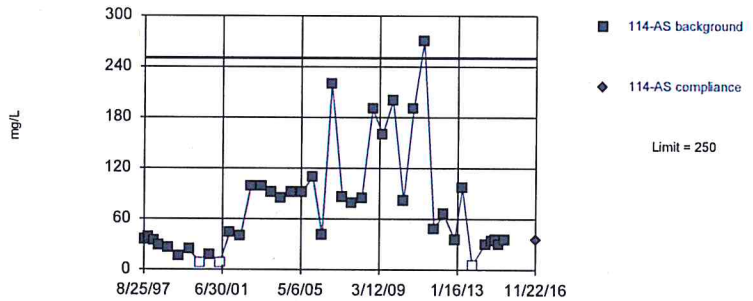
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=3.906, Std. Dev.=1.151, n=40, 7.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 7:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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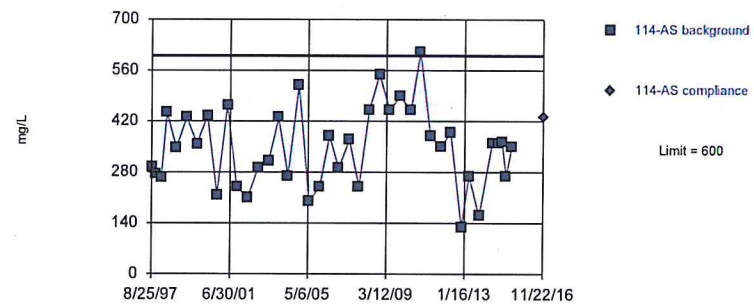
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=18.41, Std. Dev.=2.965, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9847, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 7:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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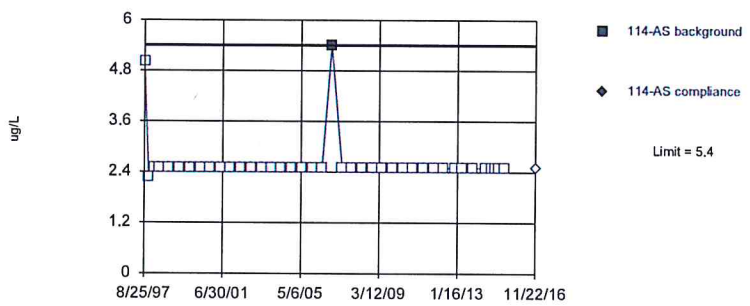
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 1/3/2017 7:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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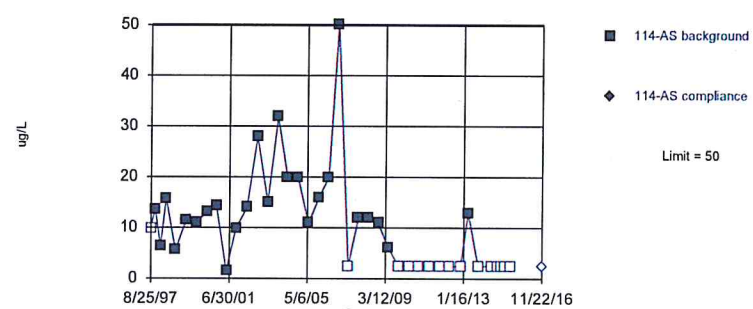
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 1/3/2017 7:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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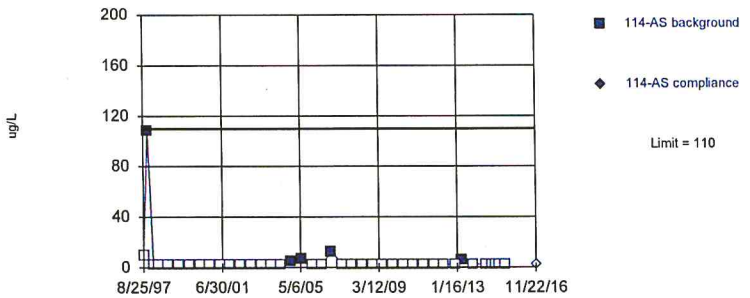
Hollow symbols indicate censored values.

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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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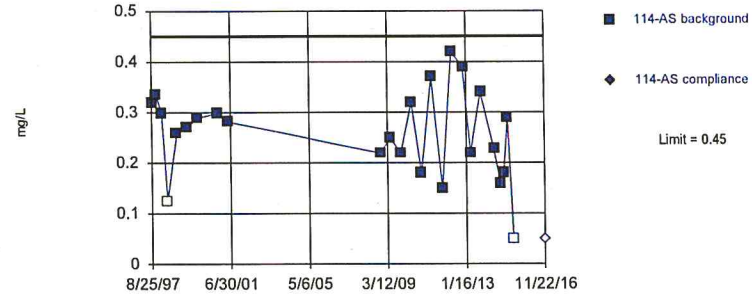
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2589, Std. Dev.=0.08723, n=25, 8% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9851, critical = 0.888. Kappa = 2.19 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.23 (5/23/2000).

Constituent: Fluoride Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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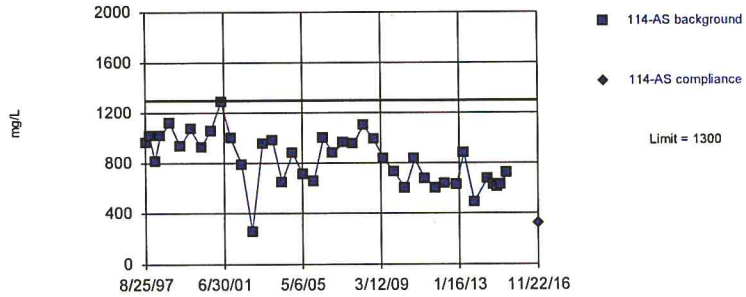
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=828.3, Std. Dev.=205.5, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Hardness Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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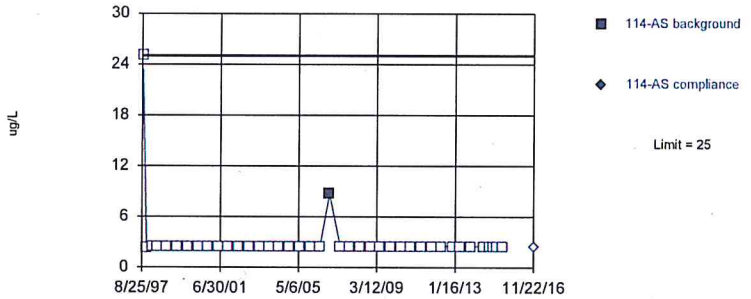
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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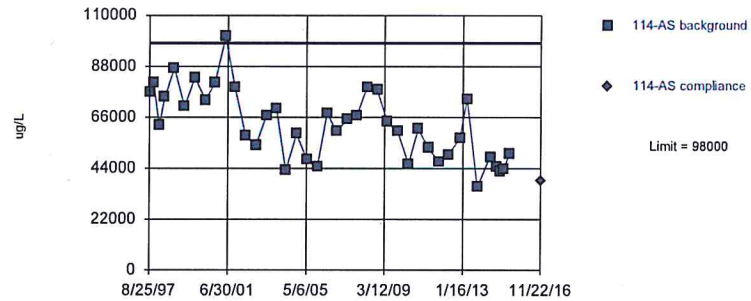
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=39.5, Std. Dev.=3.161, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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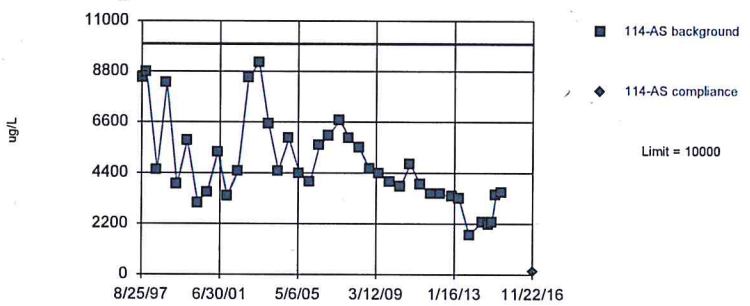
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=8.401, Std. Dev.=0.3974, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.917. Kappa = 2.081 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 6.38 (2/16/1998).

Constituent: Manganese Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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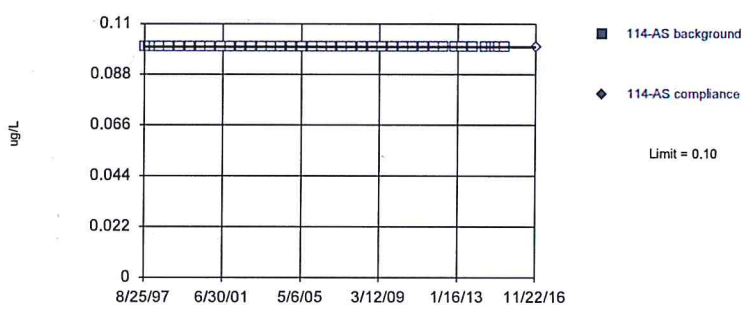
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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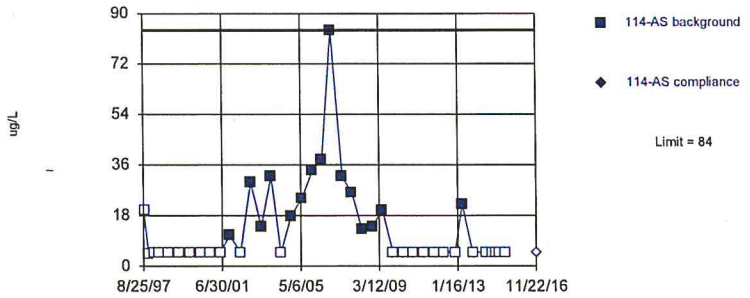
Hollow symbols indicate censored values.

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 40 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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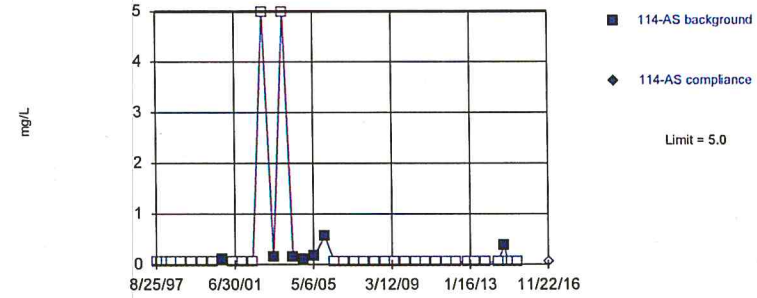
Hollow symbols indicate censored values.

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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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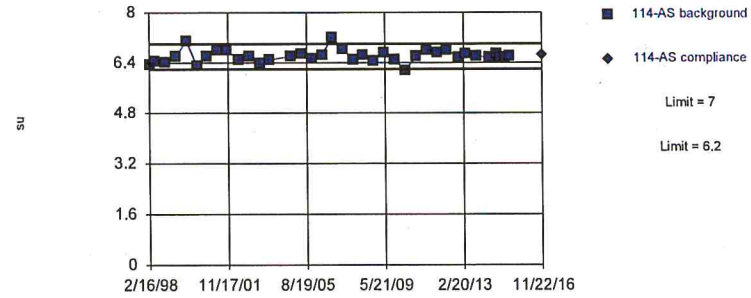
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.888, Std. Dev.=0.02947, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9517, critical = 0.914. Kappa = 2.092 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. Three background outliers were removed: 5.8 (8/25/1997); 5.91 (11/10/1997); 7.5 (5/11/2004).

Constituent: pH [Field] Analysis Run 1/3/2017 7:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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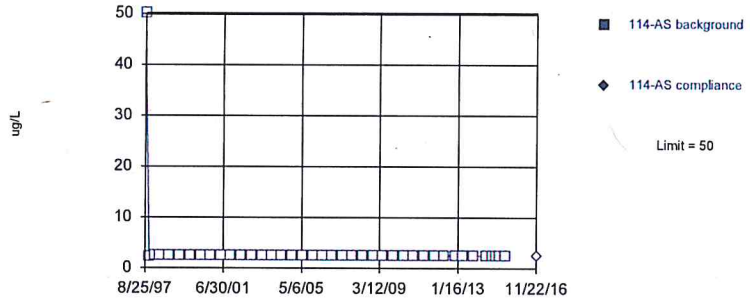
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

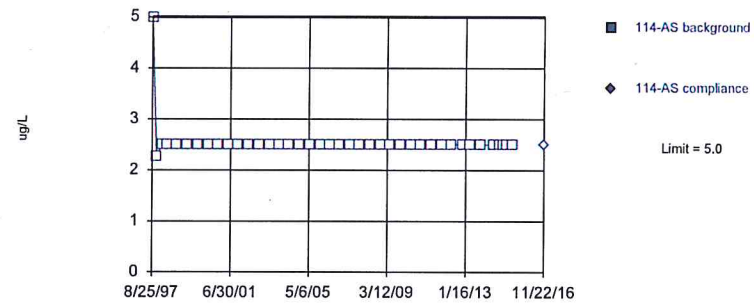
Constituent: Selenium Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

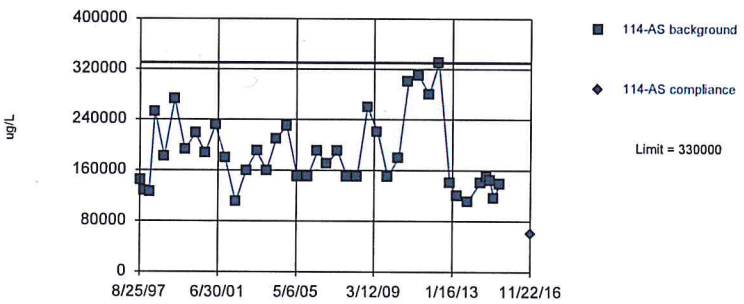
Constituent: Silver Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=12.09, Std. Dev.=0.2948, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

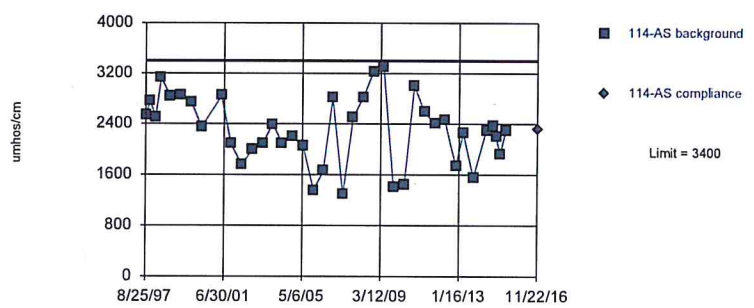
Constituent: Sodium Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2313, Std. Dev.=528.9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9683, critical = 0.917. Kappa = 2.081 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. One background outlier was removed: 280 (11/13/2000).

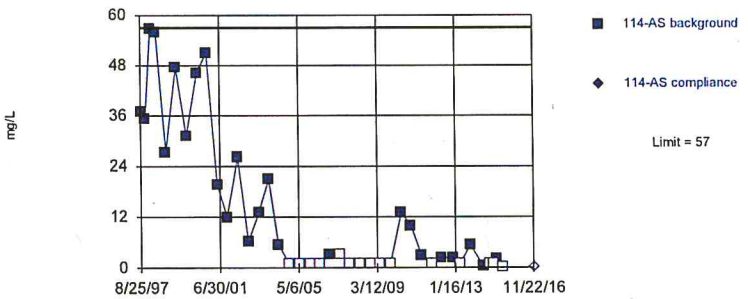
Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

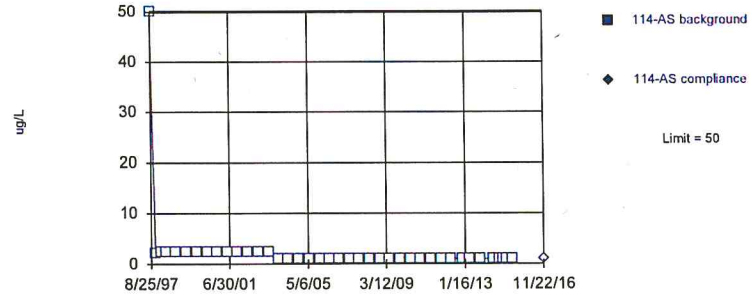
Constituent: Sulfate Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

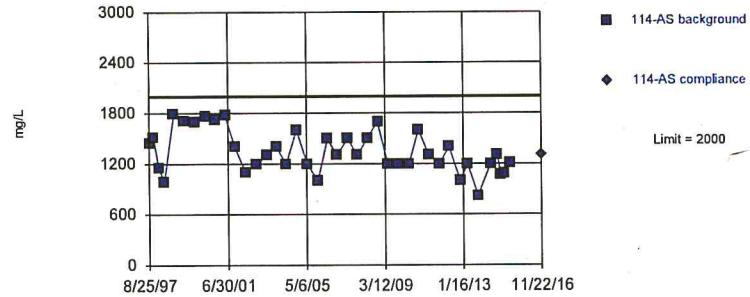
Constituent: Thallium Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.186, Std. Dev.=0.1882, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

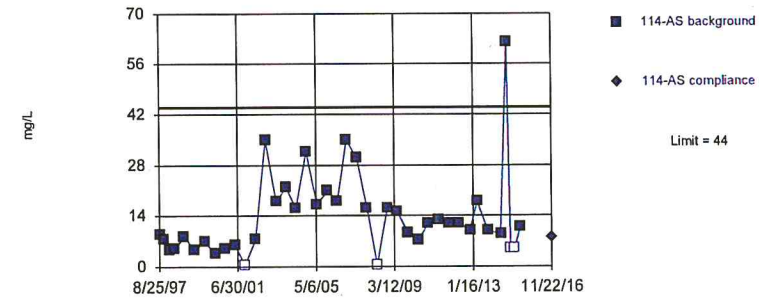
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.244, Std. Dev.=0.6242, n=40. 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

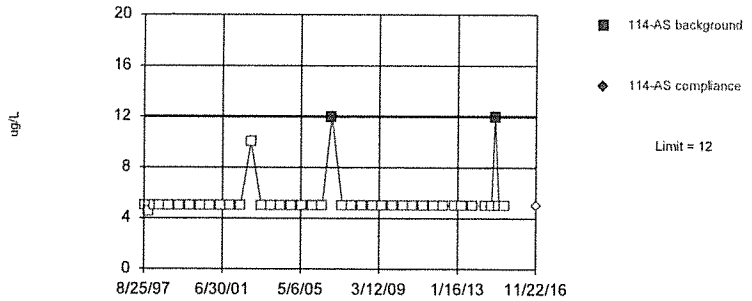
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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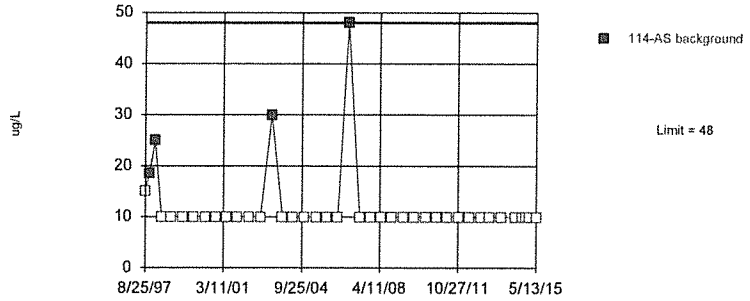
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 114-AS



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 7:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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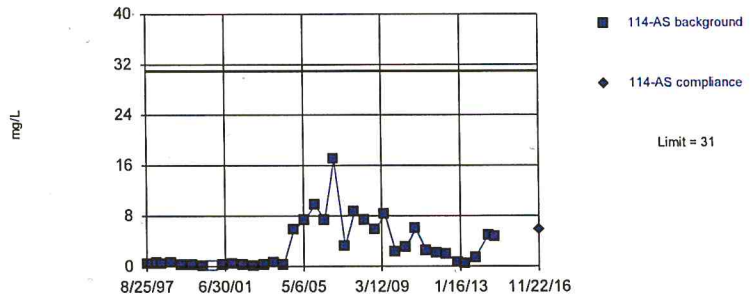
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.2618, Std. Dev.=1.512, n=37, 2.703% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.914. Kappa = 2.092 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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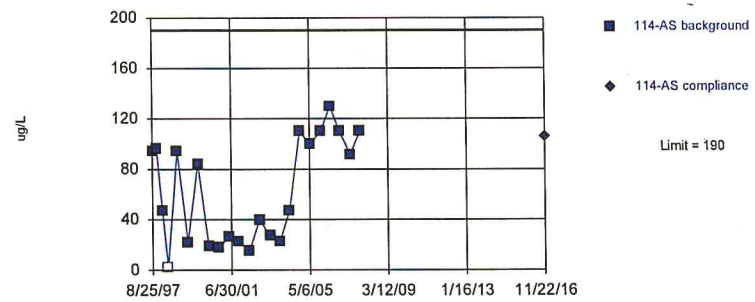
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=7.394, Std. Dev.=2.888, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8921, critical = 0.881. Kappa = 2.224 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 1/3/2017 8:06 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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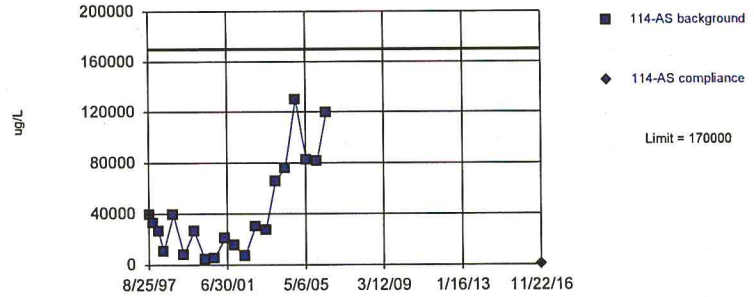
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=31.84, Std. Dev.=10.42, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.954, critical = 0.868. Kappa = 2.274 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:06 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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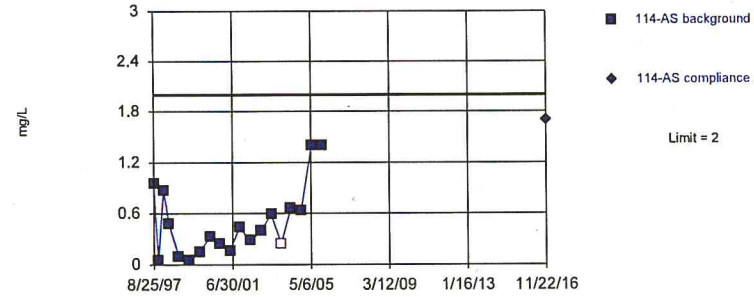
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.7295, Std. Dev.=0.2274, n=19, 5.263% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9712, critical = 0.901. Kappa = 2.302 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 1/3/2017 8:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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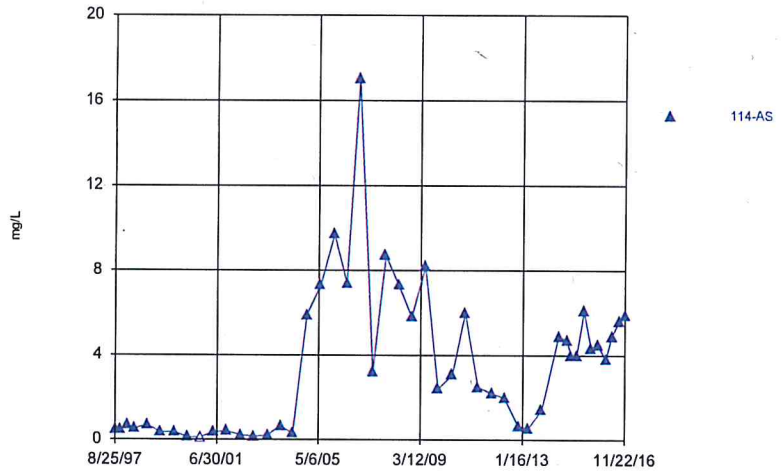
Hollow symbols indicate censored values.

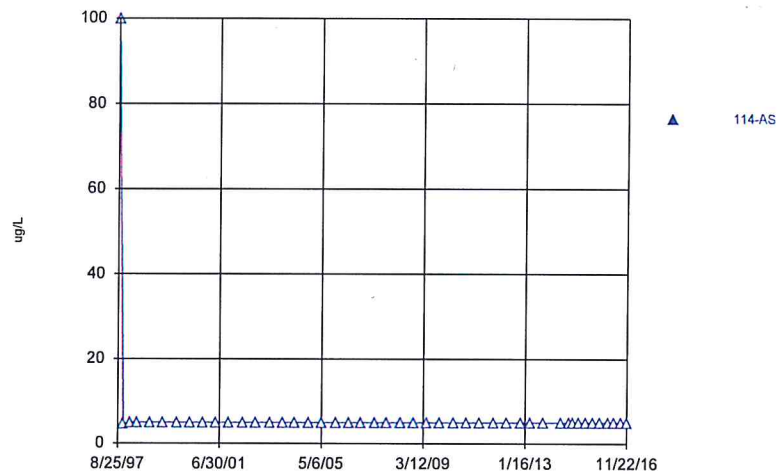
Time Series



Constituent: Ammonia as N Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

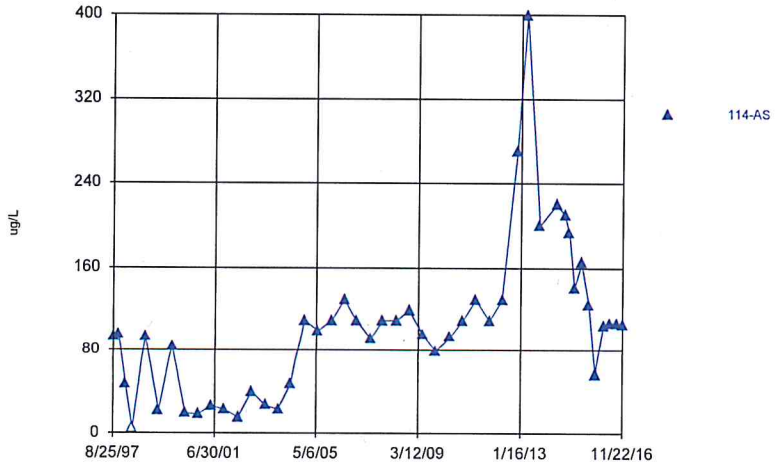
Time Series



Constituent: Antimony Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

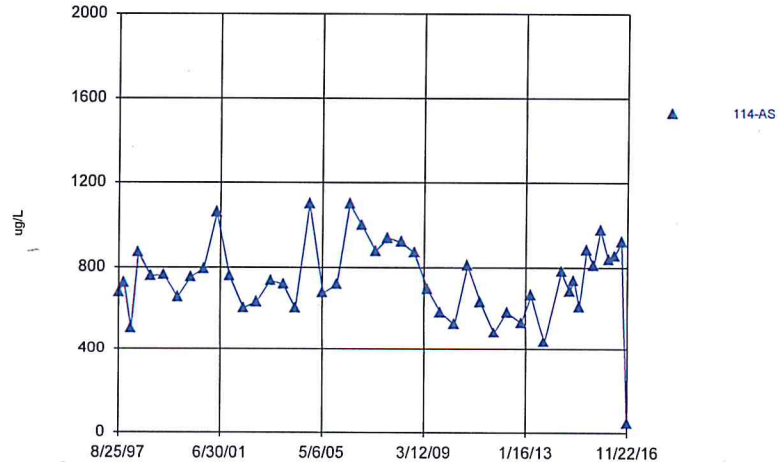
Time Series



Constituent: Arsenic Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

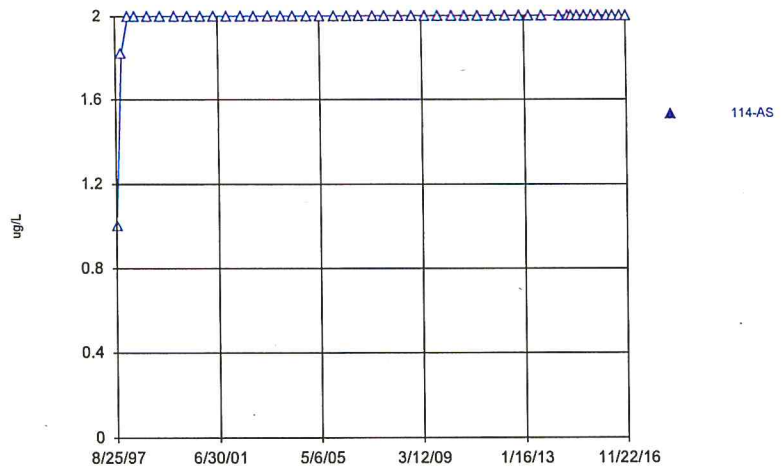
Time Series



Constituent: Barium Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

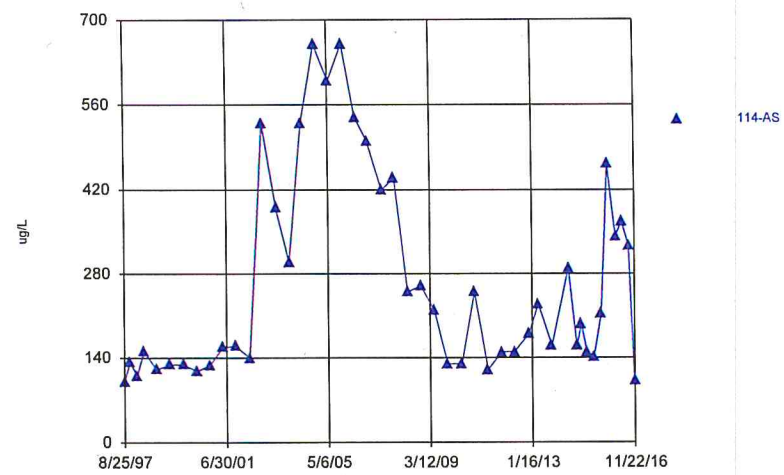
Time Series



Constituent: Beryllium Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

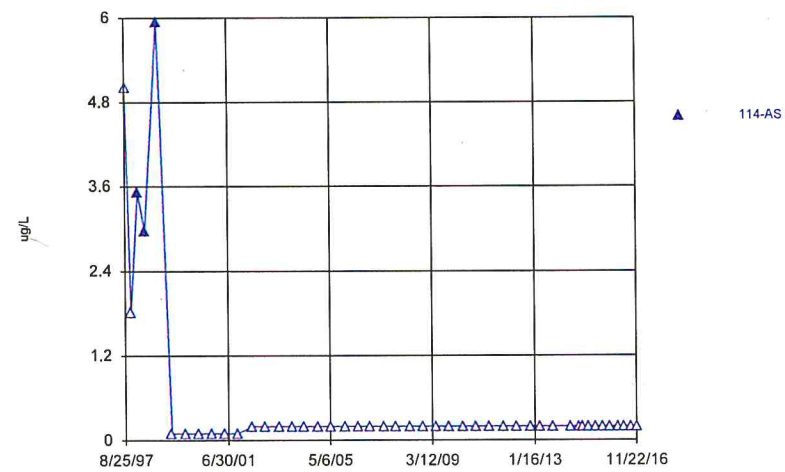
Time Series



Constituent: Boron Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

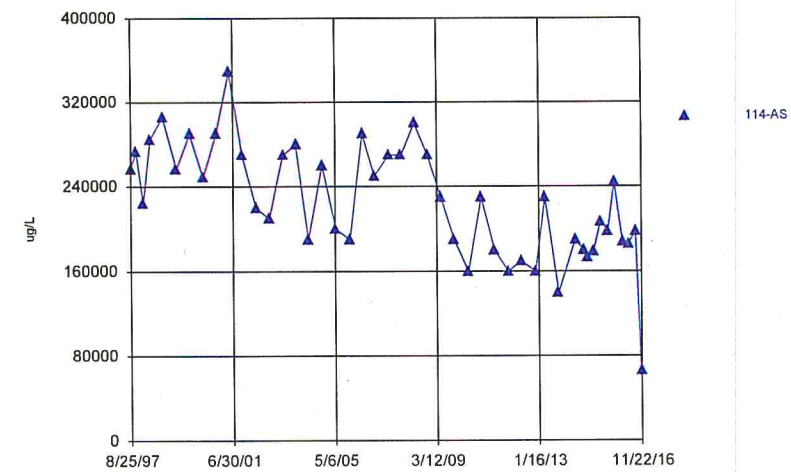
Time Series



Constituent: Cadmium Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

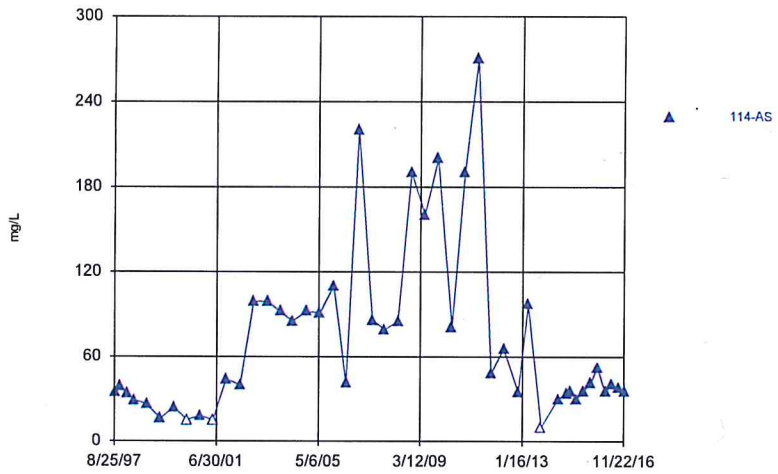
Time Series



Constituent: Calcium Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

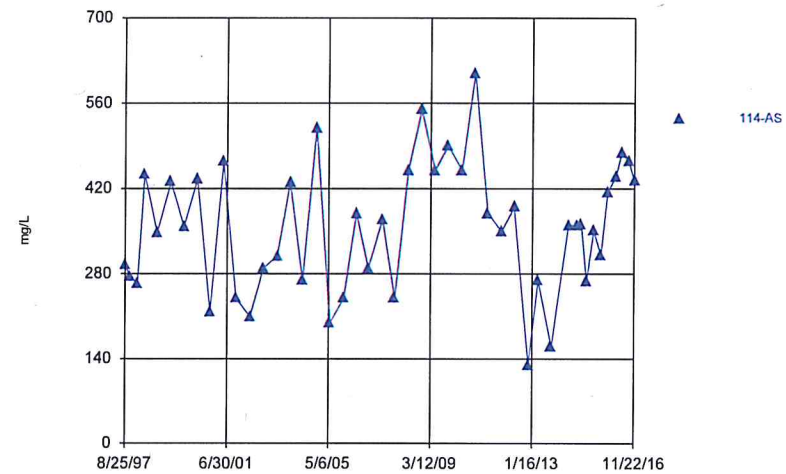
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: Chloride Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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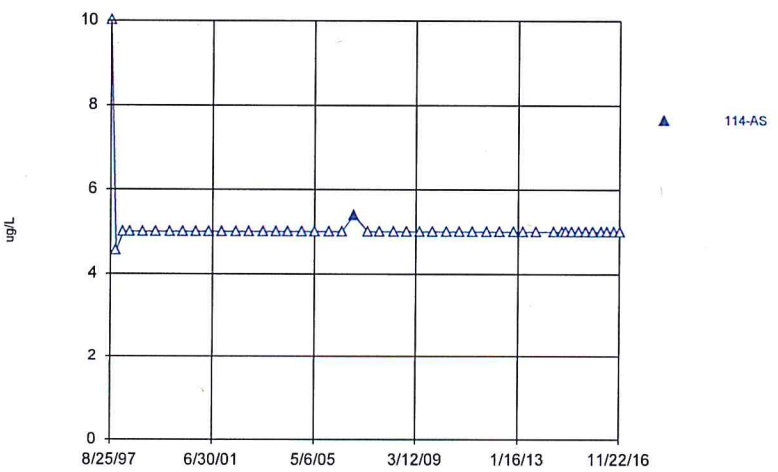
Hollow symbols indicate censored values.

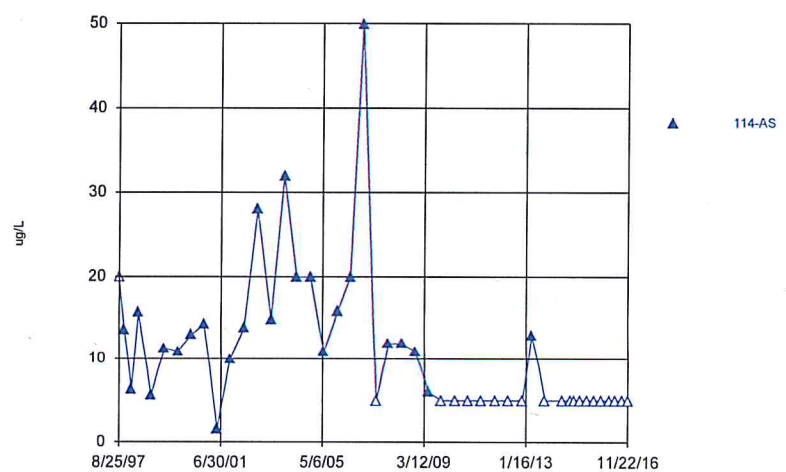
Time Series



Constituent: Chromium Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

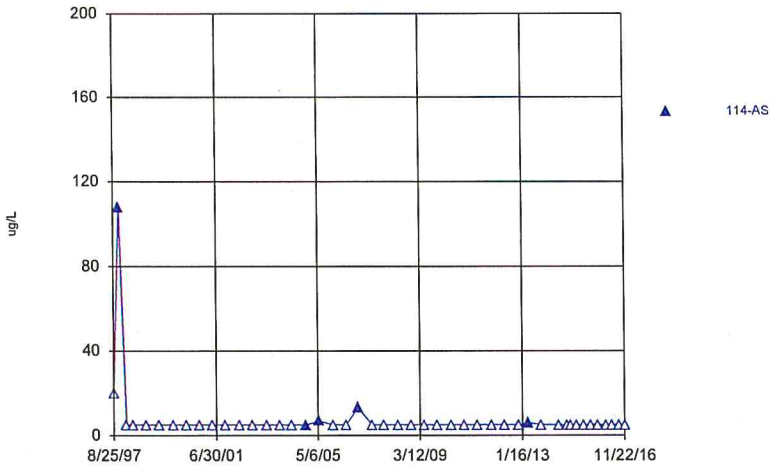
Time Series



Constituent: Cobalt Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

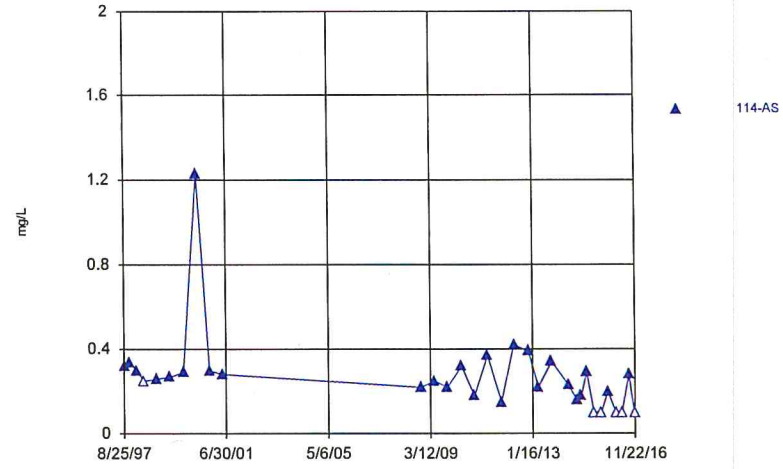
Time Series



Constituent: Copper Total Analysis Run 1/3/2017 10:04 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

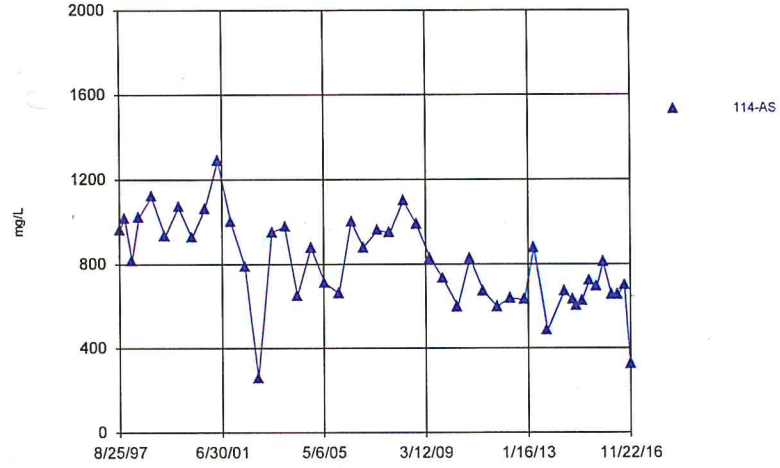
Time Series



Constituent: Fluoride Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

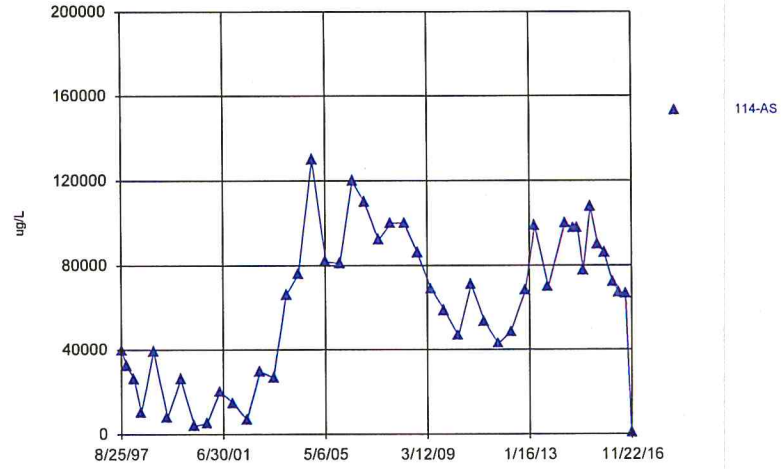
Time Series



Constituent: Hardness Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

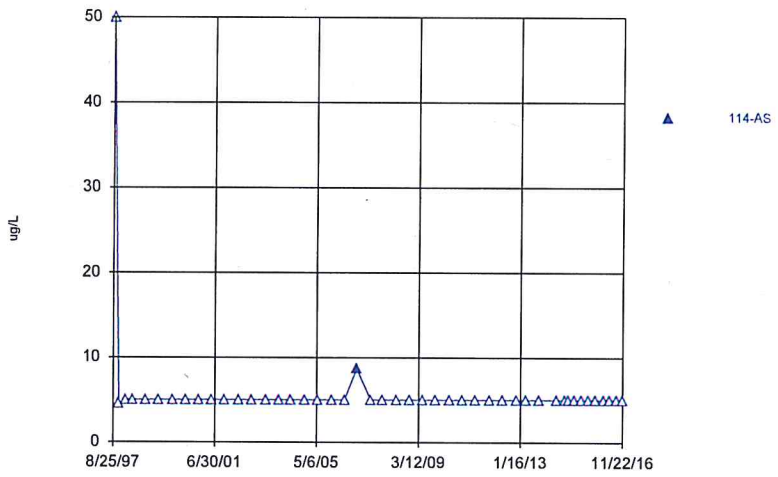
Time Series



Constituent: Iron Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

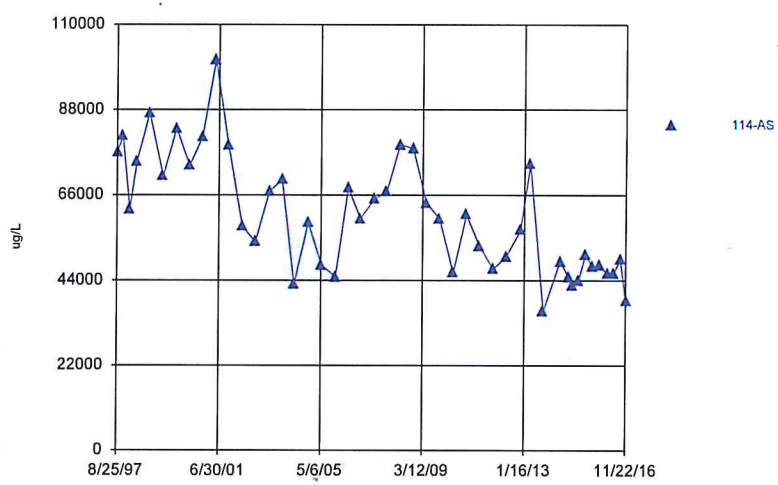
Time Series



Constituent: Lead Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

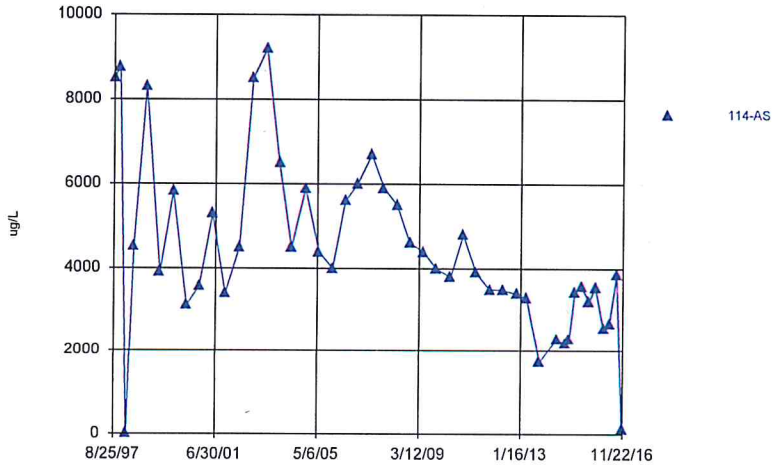
Time Series



Constituent: Magnesium Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: Manganese Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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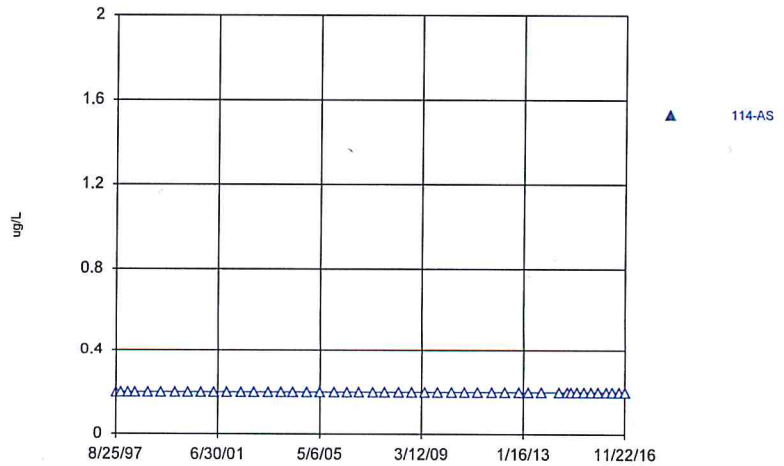
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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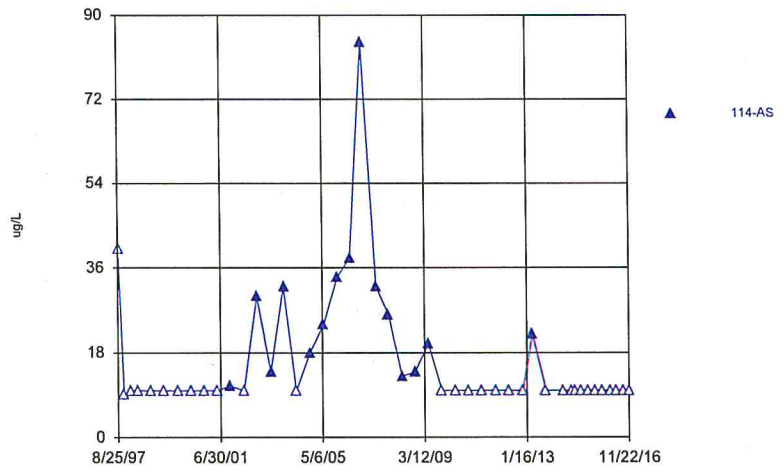
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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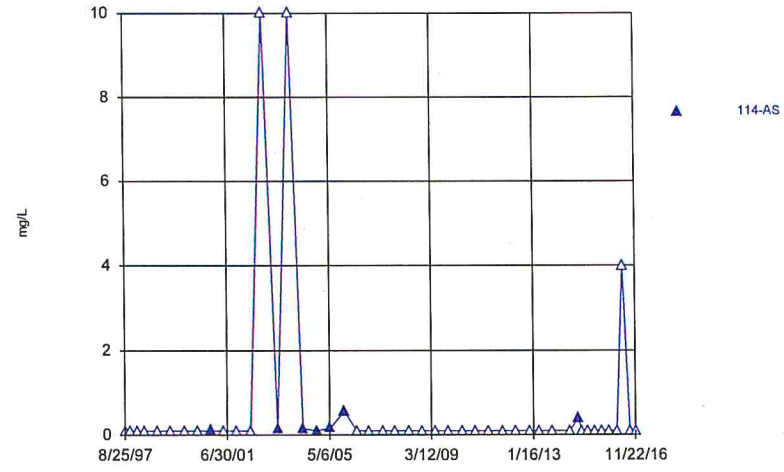
Hollow symbols indicate censored values.

Time Series



Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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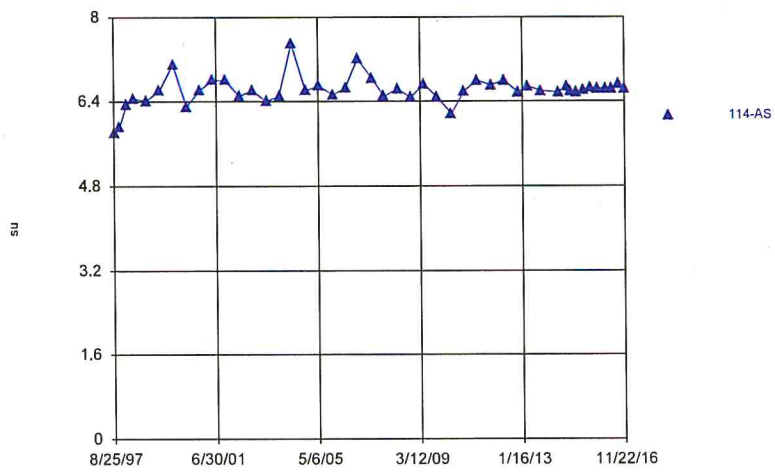
Time Series



Constituent: pH [Field] Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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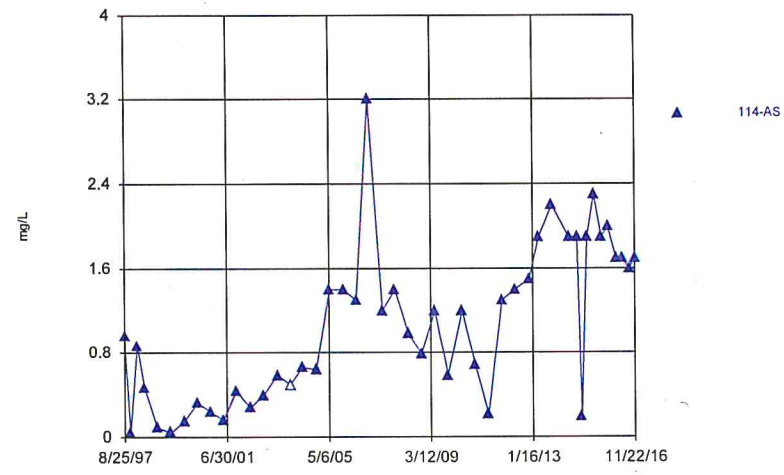
Hollow symbols indicate censored values.

Time Series



Constituent: Phosphorus Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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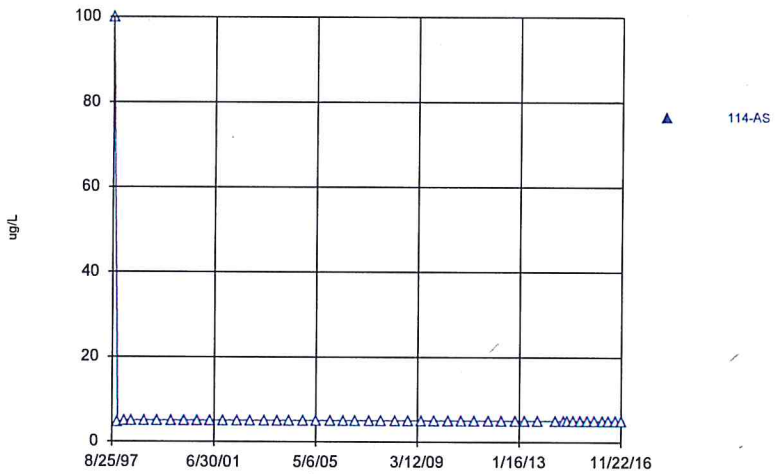
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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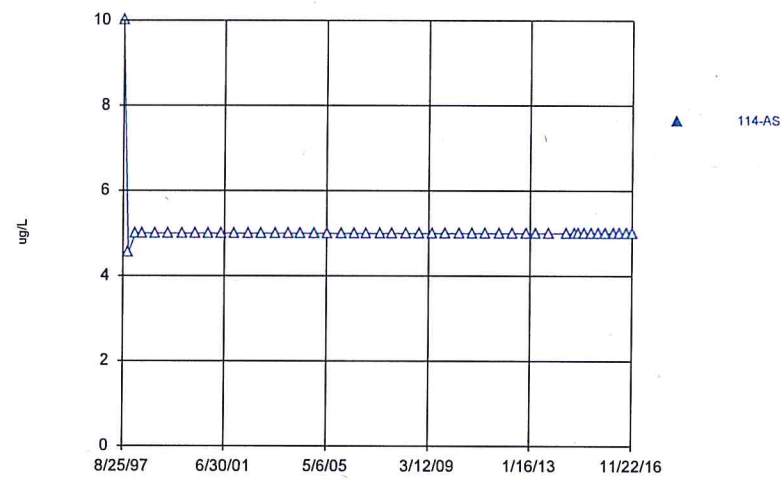
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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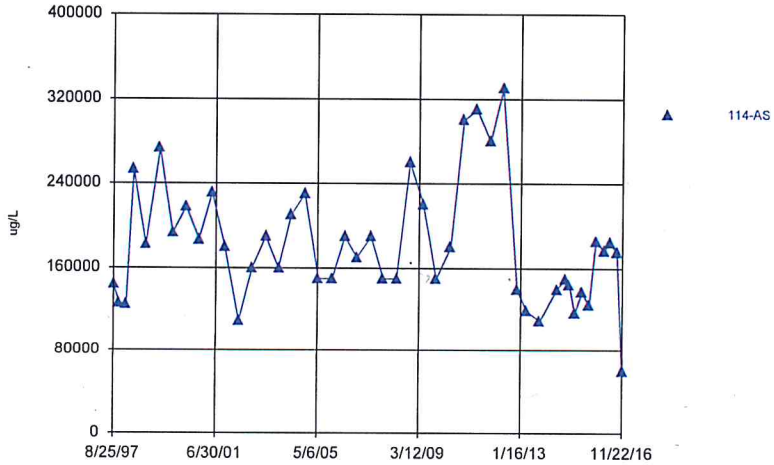
Time Series



Constituent: Sodium Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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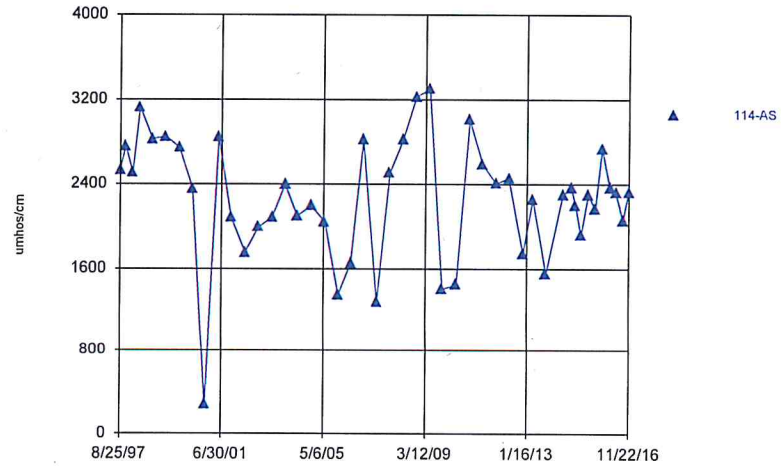
Time Series



Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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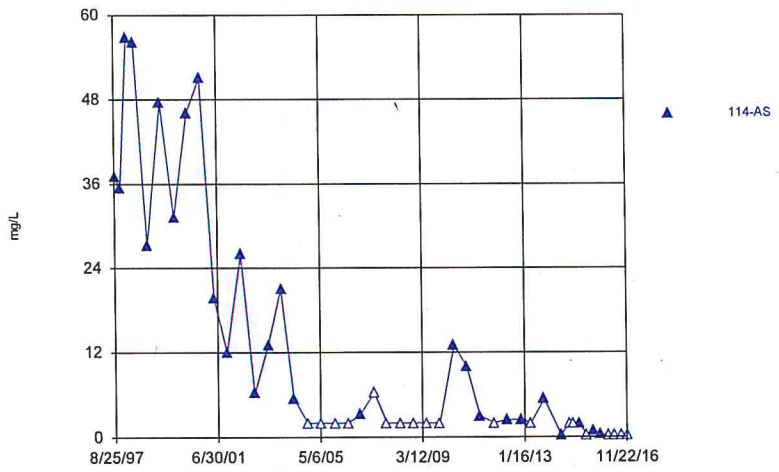
Time Series



Constituent: Sulfate Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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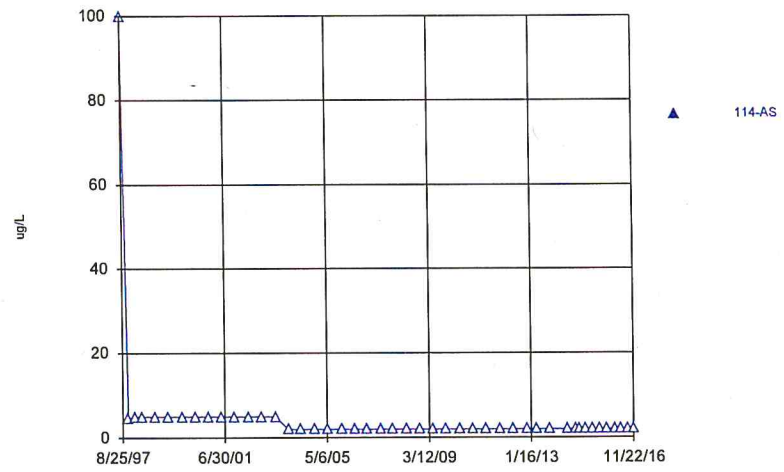
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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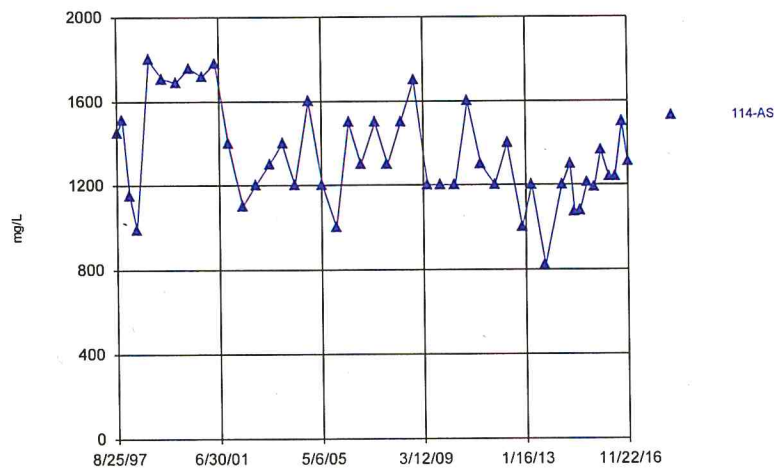
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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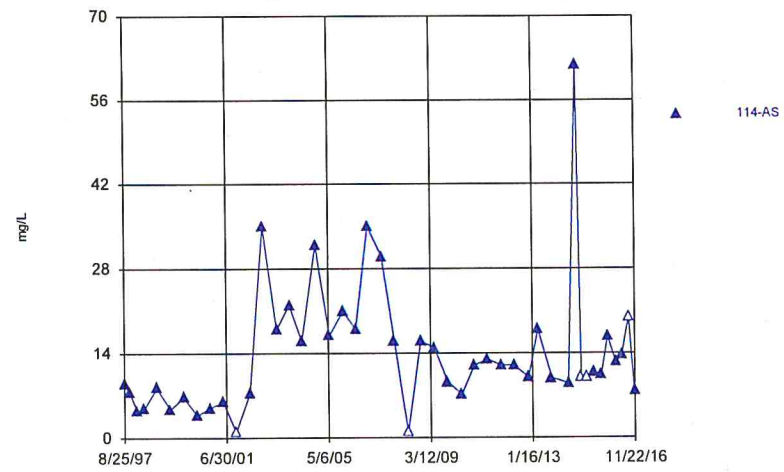
Hollow symbols indicate censored values.

Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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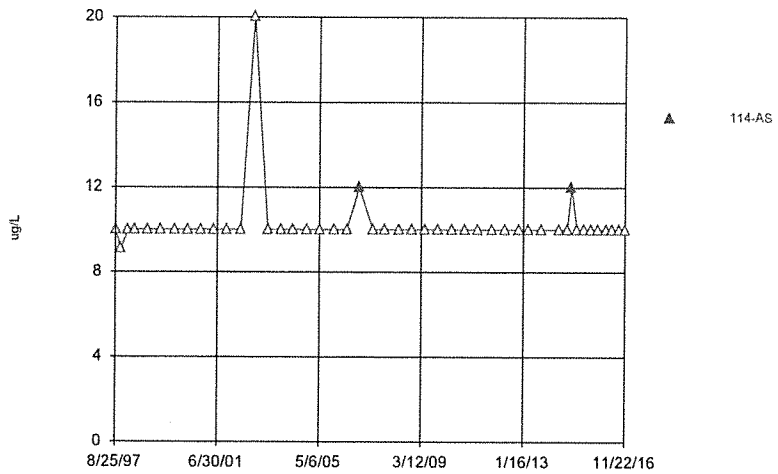
Hollow symbols indicate censored values.

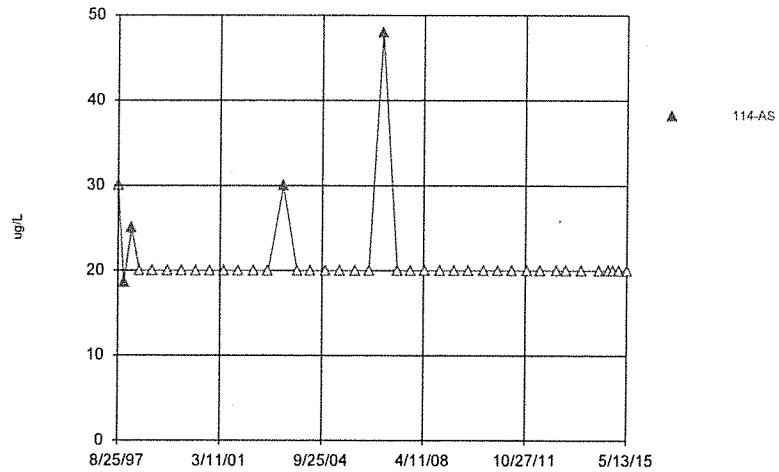
Time Series



Constituent: Vanadium Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Total Analysis Run 1/3/2017 10:05 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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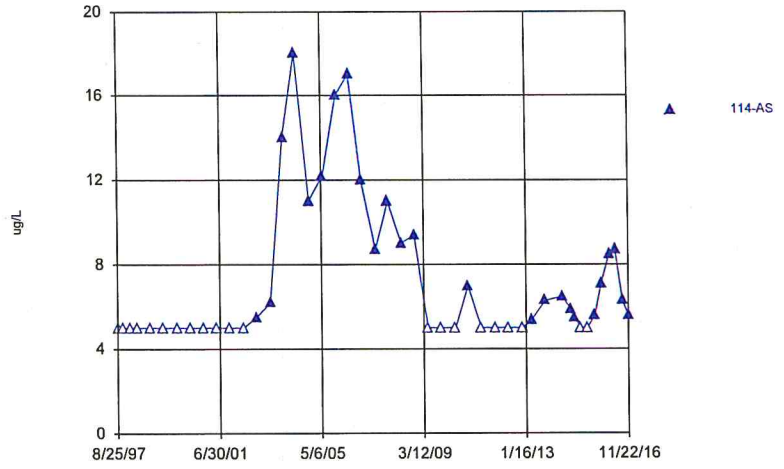
Hollow symbols indicate censored values.

Time Series



Constituent: 14-Dichlorobenzene Analysis Run 1/3/2017 4:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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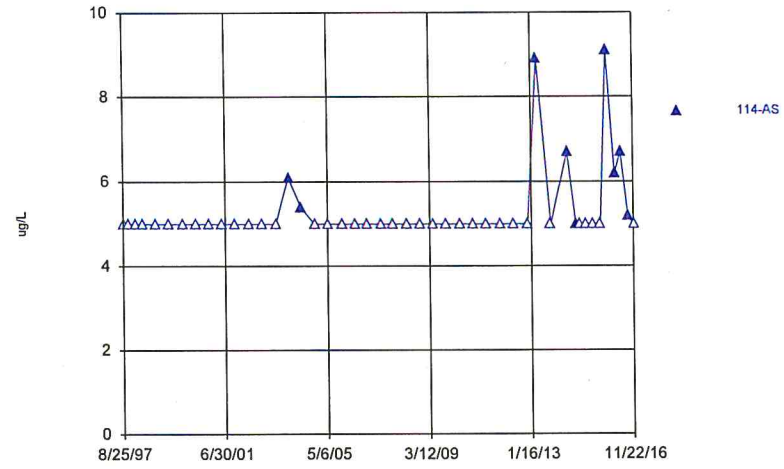
Hollow symbols indicate censored values.

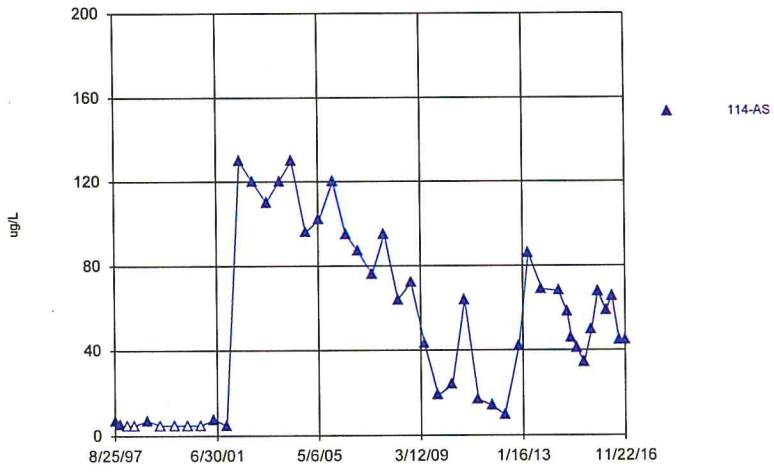
Time Series



Constituent: Benzene Analysis Run 1/3/2017 4:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 1/3/2017 4:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX D
STATISTICAL EVALUATIONS
ST. LOUIS FORMATION

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	100-SS (bg)	0	-51	-201	No	40	92.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	104-SS (bg)	0	110	201	No	40	80	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	105-SS (bg)	0	-138	-201	No	40	85	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	106-SS (bg)	0	51	201	No	40	67.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	109-SS (bg)	0	-62	-201	No	40	87.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	110-SS (bg)	0.004319	82	201	No	40	5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	115-SS (bg)	0	30	201	No	40	67.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	201A-SS (bg)	0	-47	-201	No	40	90	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	205-SS (bg)	0	-95	-201	No	40	90	n/a	n/a	0.02	NP
Antimony Total (ug/L)	100-SS (bg)	0	-22	-201	No	40	97.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	104-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	100-SS (bg)	0	46	201	No	40	97.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	104-SS (bg)	0	18	201	No	40	92.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	97.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	106-SS (bg)	0	89	201	No	40	55	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	109-SS (bg)	0	-171	-201	No	40	90	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	110-SS (bg)	0	-96	-201	No	40	92.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**115-SS (bg)**	**0.01852**	**211**	**201**	**Yes**	**40**	**55**	**n/a**	**n/a**	**0.02**	**NP**
Arsenic Total (ug/L)	201A-SS (bg)	0	-85	-201	No	40	87.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	205-SS (bg)	0	-26	-201	No	40	97.5	n/a	n/a	0.02	NP
Barium Total (ug/L)	100-SS (bg)	0.1428	88	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**104-SS (bg)**	**0.8454**	**261**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**105-SS (bg)**	**4.903**	**327**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	106-SS (bg)	0	59	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	109-SS (bg)	0	-35	-201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**110-SS (bg)**	**7.415**	**420**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**115-SS (bg)**	**14.74**	**308**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	201A-SS (bg)	0.64	112	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**205-SS (bg)**	**0.4866**	**202**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Beryllium Total (ug/L)	100-SS (bg)	0	116	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	104-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	105-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	106-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	109-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	110-SS (bg)	0	116	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	115-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	201A-SS (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	205-SS (bg)	0	48	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	**100-SS (bg)**	**1.059**	**234**	**201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	**104-SS (bg)**	**3.228**	**377**	**201**	**Yes**	**40**	**20**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	109-SS (bg)	-0.3624	-57	-201	No	40	0	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron Total (ug/L)	110-SS (bg)	-0.6411	-87	-201	No	40	2.5	n/a	n/a	0.02	NP
Boron Total (ug/L)	**115-SS (bg)**	**12.11**	**266**	**201**	**Yes**	**40**	**27.5**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	201A-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	205-SS (bg)	0	-63	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	100-SS (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	104-SS (bg)	0	-35	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	105-SS (bg)	0	-92	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	106-SS (bg)	0	-63	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	109-SS (bg)	0	-87	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	110-SS (bg)	0	-34	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	115-SS (bg)	0	-89	-201	No	40	95	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	201A-SS (bg)	0	-66	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	205-SS (bg)	0	-165	-201	No	40	87.5	n/a	n/a	0.02	NP
Calcium Total (ug/L)	100-SS (bg)	-114.8	-79	-201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	104-SS (bg)	243.6	118	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**105-SS (bg)**	**1908**	**403**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**106-SS (bg)**	**584.2**	**291**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	109-SS (bg)	273.8	151	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**110-SS (bg)**	**3124**	**313**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**115-SS (bg)**	**4611**	**259**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**201A-SS (bg)**	**941.3**	**409**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	**205-SS (bg)**	**391**	**295**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**100-SS (bg)**	**0**	**-301**	**-201**	**Yes**	**40**	**97.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	104-SS (bg)	0	73	201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	105-SS (bg)	0	-161	-201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**106-SS (bg)**	**0**	**-339**	**-201**	**Yes**	**40**	**90**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**109-SS (bg)**	**0**	**-268**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	110-SS (bg)	0.5451	88	201	No	40	0	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	115-SS (bg)	1.334	147	201	No	40	30	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**201A-SS (bg)**	**0**	**-366**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**205-SS (bg)**	**0**	**-229**	**-201**	**Yes**	**40**	**90**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**100-SS (bg)**	**-0.1805**	**-260**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**104-SS (bg)**	**0.1496**	**335**	**201**	**Yes**	**40**	**40**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**105-SS (bg)**	**4.592**	**437**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**106-SS (bg)**	**0.9369**	**452**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**109-SS (bg)**	**-0.09448**	**-319**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**110-SS (bg)**	**2.339**	**204**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**115-SS (bg)**	**11.58**	**248**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**201A-SS (bg)**	**0.1287**	**491**	**201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**205-SS (bg)**	**0.7123**	**329**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Chromium Total (ug/L)	100-SS (bg)	0	-157	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	104-SS (bg)	0	-180	-201	No	40	95	n/a	n/a	0.02	NP
Chromium Total (ug/L)	105-SS (bg)	0	-82	-201	No	40	97.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	106-SS (bg)	0	-83	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	109-SS (bg)	0	-192	-201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	110-SS (bg)	0	-190	-201	No	40	95	n/a	n/a	0.02	NP
Chromium Total (ug/L)	115-SS (bg)	0	-46	-201	No	40	97.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	92.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	205-SS (bg)	0	-132	-201	No	40	85	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt Total (ug/L)	104-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	106-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	110-SS (bg)	0	-170	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	115-SS (bg)	0.262	172	201	No	40	42.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	201A-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	205-SS (bg)	0	-102	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	100-SS (bg)	0	-164	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	104-SS (bg)	0	-136	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	105-SS (bg)	0	-80	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	106-SS (bg)	0	-102	-201	No	40	95	n/a	n/a	0.02	NP
Copper Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	110-SS (bg)	0	-110	-201	No	40	70	n/a	n/a	0.02	NP
Copper Total (ug/L)	115-SS (bg)	0	-72	-201	No	40	82.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	201A-SS (bg)	0	-138	-201	No	40	97.5	n/a	n/a	0.02	NP
Copper Total (ug/L)	205-SS (bg)	0	-25	-201	No	40	90	n/a	n/a	0.02	NP
Fluoride (mg/L)	**100-SS (bg)**	**-0.00...**	**-214**	**-186**	**Yes**	**38**	**2.632**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	104-SS (bg)	0	-1	-186	No	38	2.632	n/a	n/a	0.02	NP
Fluoride (mg/L)	**105-SS (bg)**	**-0.01749**	**-384**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	106-SS (bg)	-0.00...	-94	-186	No	38	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	**109-SS (bg)**	**0.0198**	**264**	**186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**110-SS (bg)**	**-0.01819**	**-375**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**115-SS (bg)**	**-0.05116**	**-340**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**201A-SS (bg)**	**-0.00...**	**-341**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Fluoride (mg/L)	**205-SS (bg)**	**-0.00...**	**-188**	**-186**	**Yes**	**38**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	100-SS (bg)	0	7	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	104-SS (bg)	1.426	170	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**105-SS (bg)**	**9.008**	**387**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**106-SS (bg)**	**2.804**	**278**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	109-SS (bg)	1.292	165	201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**110-SS (bg)**	**10.01**	**287**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**115-SS (bg)**	**18.87**	**276**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**201A-SS (bg)**	**4.532**	**349**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**205-SS (bg)**	**3.993**	**352**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	100-SS (bg)	0	-28	-201	No	40	25	n/a	n/a	0.02	NP
Iron Total (ug/L)	**104-SS (bg)**	**-116.2**	**-276**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	105-SS (bg)	-44.5	-178	-201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**106-SS (bg)**	**51.01**	**414**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	**109-SS (bg)**	**-18.82**	**-357**	**-201**	**Yes**	**40**	**5**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	110-SS (bg)	107.5	166	201	No	40	2.5	n/a	n/a	0.02	NP
Iron Total (ug/L)	**115-SS (bg)**	**100.5**	**332**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	201A-SS (bg)	-24.18	-189	-201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	205-SS (bg)	-33.55	-182	-201	No	40	0	n/a	n/a	0.02	NP
Lead Total (ug/L)	100-SS (bg)	0	-93	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	104-SS (bg)	0	-62	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Lead Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Lead Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	201A-SS (bg)	0	-132	-201	No	40	95	n/a	n/a	0.02	NP
Lead Total (ug/L)	205-SS (bg)	0	-16	-201	No	40	87.5	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	100-SS (bg)	175.4	165	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**104-SS (bg)**	**266.6**	**263**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**105-SS (bg)**	**937**	**399**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**106-SS (bg)**	**346.9**	**326**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	109-SS (bg)	96.8	100	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**110-SS (bg)**	**851.4**	**291**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**115-SS (bg)**	**1502**	**244**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**201A-SS (bg)**	**642.5**	**444**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**205-SS (bg)**	**484.6**	**412**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**100-SS (bg)**	**0**	**-215**	**-201**	**Yes**	**40**	**57.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	104-SS (bg)	-0.9428	-141	-201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	105-SS (bg)	-0.6502	-127	-201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	106-SS (bg)	0.355	77	201	No	40	2.5	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**109-SS (bg)**	**-0.8628**	**-304**	**-201**	**Yes**	**40**	**42.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**110-SS (bg)**	**2.934**	**236**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**115-SS (bg)**	**3.607**	**301**	**201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**201A-SS (bg)**	**-11.65**	**-318**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	**205-SS (bg)**	**-0.5884**	**-264**	**-201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	100-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	104-SS (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Mercury Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	109-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	110-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	115-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	201A-SS (bg)	0	-53	-201	No	40	97.5	n/a	n/a	0.02	NP
Mercury Total (ug/L)	205-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	**100-SS (bg)**	**-0.5913**	**-261**	**-201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Nickel Total (ug/L)	104-SS (bg)	0	-130	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	105-SS (bg)	0	-54	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	106-SS (bg)	0	-170	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	109-SS (bg)	0	-132	-201	No	40	95	n/a	n/a	0.02	NP
Nickel Total (ug/L)	110-SS (bg)	0	-40	-201	No	40	25	n/a	n/a	0.02	NP
Nickel Total (ug/L)	**115-SS (bg)**	**1.87**	**232**	**201**	**Yes**	**40**	**30**	**n/a**	**n/a**	**0.02**	**NP**
Nickel Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	97.5	n/a	n/a	0.02	NP
Nickel Total (ug/L)	205-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	100-SS (bg)	0	-74	-201	No	40	75	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	104-SS (bg)	0	58	201	No	40	90	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	105-SS (bg)	0	-46	-201	No	40	95	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	106-SS (bg)	0	-64	-201	No	40	92.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	109-SS (bg)	0	76	201	No	40	90	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	110-SS (bg)	0	-19	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	115-SS (bg)	0	-40	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	**201A-SS (bg)**	**0.01**	**364**	**201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Nitrate/Nitrite (mg/L)	205-SS (bg)	0	-18	-201	No	40	95	n/a	n/a	0.02	NP
pH [Field] (su)	100-SS (bg)	-0.01736	-196	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**104-SS (bg)**	**-0.0405**	**-277**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH [Field] (su)	**105-SS (bg)**	**-0.02251**	**-283**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**106-SS (bg)**	**-0.02559**	**-255**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	109-SS (bg)	-0.01685	-162	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**110-SS (bg)**	**-0.01825**	**-207**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	115-SS (bg)	-0.02196	-199	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**201A-SS (bg)**	**-0.0296**	**-300**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**205-SS (bg)**	**-0.01733**	**-228**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	100-SS (bg)	0	-178	-201	No	40	70	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	104-SS (bg)	0	-95	-201	No	40	60	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**105-SS (bg)**	**-0.00...**	**-509**	**-201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	106-SS (bg)	0	-90	-201	No	40	72.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	109-SS (bg)	0	-77	-201	No	40	72.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	110-SS (bg)	-0.00...	-147	-201	No	40	2.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**115-SS (bg)**	**0.009173**	**344**	**201**	**Yes**	**40**	**10**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	**201A-SS (bg)**	**0**	**-217**	**-201**	**Yes**	**40**	**70**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	205-SS (bg)	0	-16	-201	No	40	70	n/a	n/a	0.02	NP
Selenium Total (ug/L)	100-SS (bg)	0	46	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	104-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	109-SS (bg)	0	41	201	No	40	80	n/a	n/a	0.02	NP
Selenium Total (ug/L)	110-SS (bg)	0	45	201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	115-SS (bg)	0	-62	-201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	104-SS (bg)	0	-98	-194	No	39	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	106-SS (bg)	0	-61	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	110-SS (bg)	0	-100	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	115-SS (bg)	0	-58	-201	No	40	97.5	n/a	n/a	0.02	NP
Silver Total (ug/L)	201A-SS (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**100-SS (bg)**	**-831.9**	**-488**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**104-SS (bg)**	**-502.2**	**-400**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**105-SS (bg)**	**571**	**215**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**106-SS (bg)**	**269.6**	**394**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**109-SS (bg)**	**-794.1**	**-400**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	110-SS (bg)	154.7	33	201	No	40	0	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**115-SS (bg)**	**3767**	**297**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**201A-SS (bg)**	**-1529**	**-493**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**205-SS (bg)**	**-392.5**	**-234**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	100-SS (bg)	-3.436	-194	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	104-SS (bg)	3.086	107	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**105-SS (bg)**	**17.15**	**333**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	106-SS (bg)	3.452	173	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	109-SS (bg)	-1.534	-92	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**110-SS (bg)**	**16.95**	**292**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	**115-SS (bg)**	**55.65**	**298**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Specific Conductance [Field] (u...	201A-SS (bg)	0.6058	38	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	205-SS (bg)	1.604	104	201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**100-SS (bg)**	**-1.575**	**-512**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**104-SS (bg)**	**-1.275**	**-505**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**105-SS (bg)**	**3.61**	**428**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	106-SS (bg)	0.1357	84	201	No	40	2.5	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**109-SS (bg)**	**-1.556**	**-397**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**110-SS (bg)**	**-1.606**	**-300**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**115-SS (bg)**	**-1.746**	**-505**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**201A-SS (bg)**	**0.7361**	**205**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	205-SS (bg)	0.3668	130	201	No	40	0	n/a	n/a	0.02	NP
Thallium Total (ug/L)	**100-SS (bg)**	**0**	**-324**	**-201**	**Yes**	**40**	**97.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**104-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**105-SS (bg)**	**-0.08868**	**-390**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**106-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**109-SS (bg)**	**-0.08239**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**110-SS (bg)**	**0**	**-304**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**115-SS (bg)**	**-0.08238**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**201A-SS (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**205-SS (bg)**	**-0.08234**	**-378**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**100-SS (bg)**	**-4.547**	**-362**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	104-SS (bg)	-1.495	-138	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**105-SS (bg)**	**10.47**	**377**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	106-SS (bg)	1.895	188	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	109-SS (bg)	-2.746	-201	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	110-SS (bg)	0	45	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**115-SS (bg)**	**20.92**	**246**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	201A-SS (bg)	0	40	201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	205-SS (bg)	0	-29	-201	No	40	0	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	100-SS (bg)	0	51	201	No	40	72.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	104-SS (bg)	0.01062	166	201	No	40	47.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	105-SS (bg)	-0.03496	-95	-201	No	40	17.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**106-SS (bg)**	**0.02137**	**213**	**201**	**Yes**	**40**	**52.5**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	109-SS (bg)	0	167	201	No	40	52.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	110-SS (bg)	0.3407	163	201	No	40	0	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	115-SS (bg)	0.5685	195	201	No	40	22.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	201A-SS (bg)	0	146	201	No	40	50	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**205-SS (bg)**	**0.04989**	**246**	**201**	**Yes**	**40**	**45**	**n/a**	**n/a**	**0.02**	**NP**
Vanadium Total (ug/L)	100-SS (bg)	0	5	201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	104-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	109-SS (bg)	0	9	201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	110-SS (bg)	0	38	201	No	40	97.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	115-SS (bg)	0	42	201	No	40	97.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	201A-SS (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	205-SS (bg)	0	44	201	No	40	97.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	100-SS (bg)	0	-167	-201	No	40	92.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	104-SS (bg)	0	-180	-201	No	40	85	n/a	n/a	0.02	NP
Zinc Total (ug/L)	105-SS (bg)	0	-184	-201	No	40	85	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:16 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Zinc Total (ug/L)	106-SS (bg)	0	-165	-201	No	40	92.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**109-SS (bg)**	**-3.762**	**-661**	**-201**	**Yes**	**40**	**32.5**	**n/a**	**n/a**	**0.02**	**NP**
Zinc Total (ug/L)	110-SS (bg)	0	-176	-201	No	40	77.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	115-SS (bg)	0	-144	-201	No	40	87.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	201A-SS (bg)	0	-100	-201	No	40	85	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**205-SS (bg)**	**0**	**-254**	**-201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**

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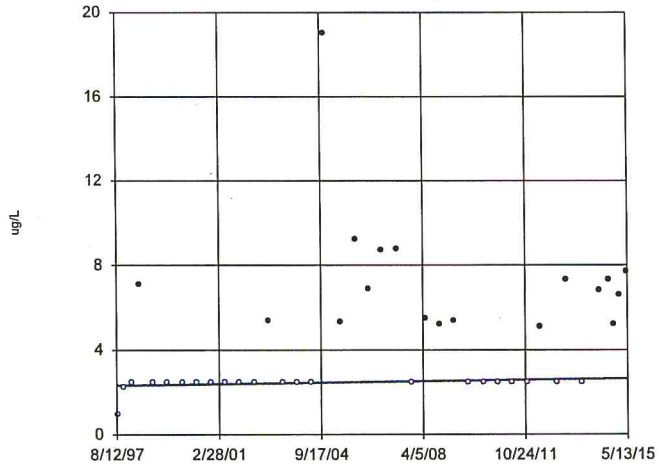
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.01852 units per year.

Mann-Kendall statistic = 211 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Arsenic Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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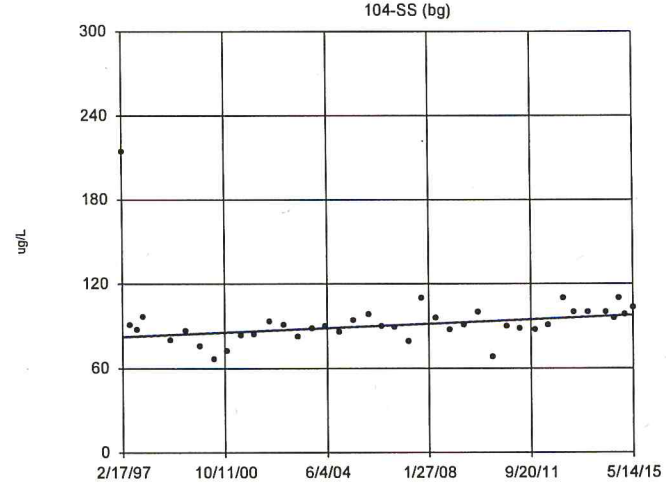
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0.8454 units per year.

Mann-Kendall statistic = 261 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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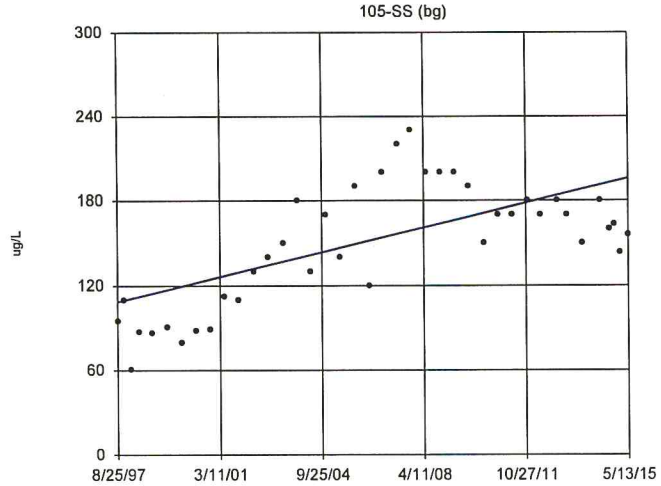
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 4.903 units per year.

Mann-Kendall statistic = 327 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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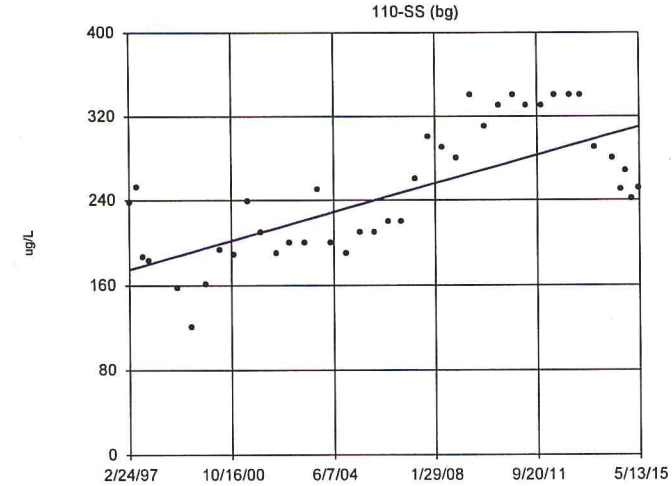
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 7.415 units per year.

Mann-Kendall statistic = 420 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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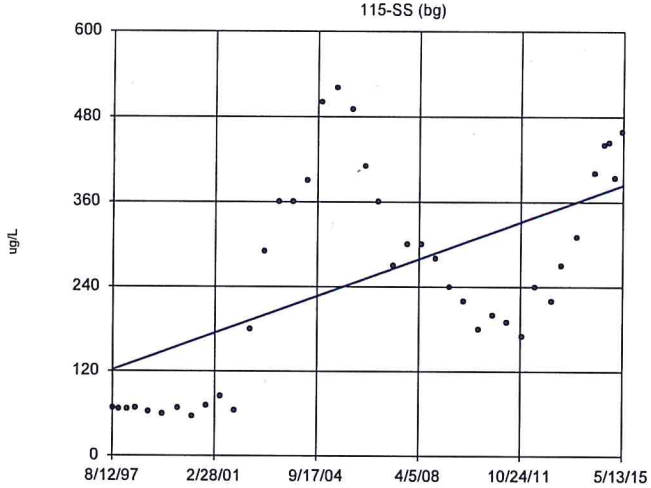
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 14.74 units per year.

Mann-Kendall statistic = 308 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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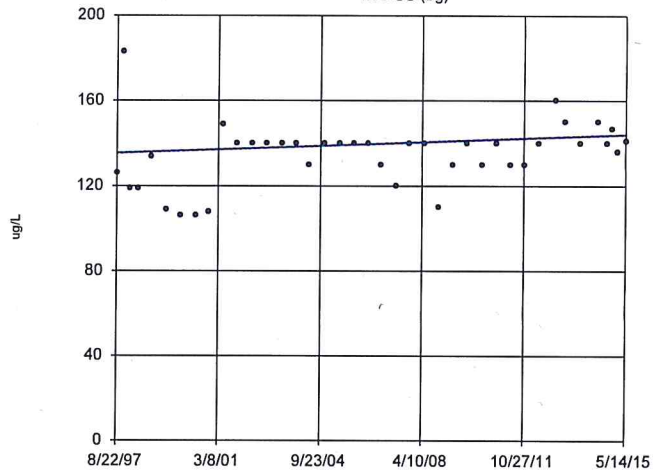
Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.4866 units per year.

Mann-Kendall statistic = 202 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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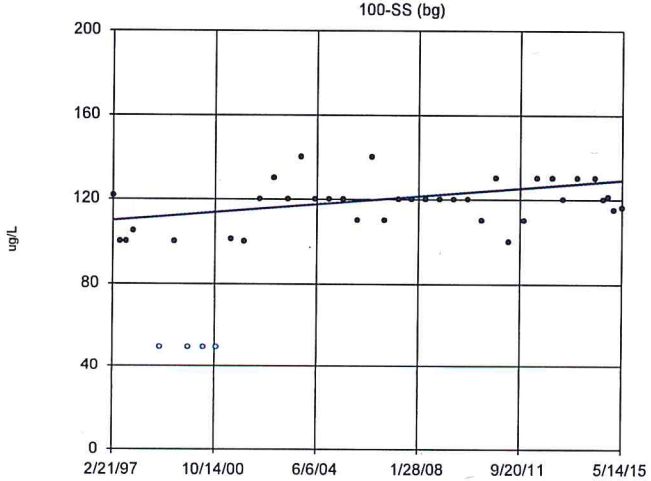
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 1.059 units per year.

Mann-Kendall statistic = 234 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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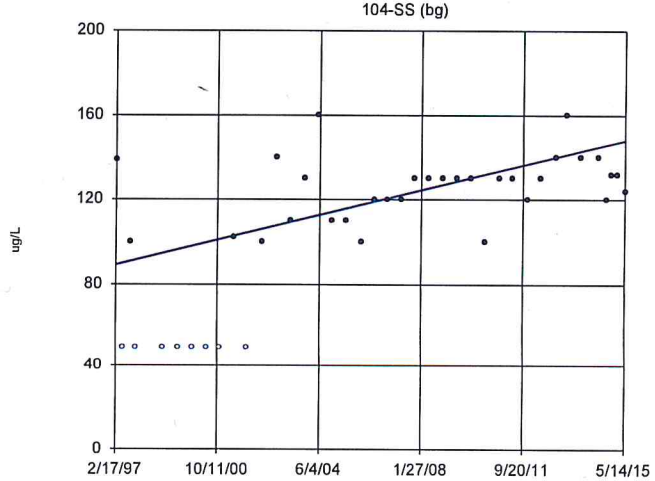
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 3.228 units per year.

Mann-Kendall statistic = 377 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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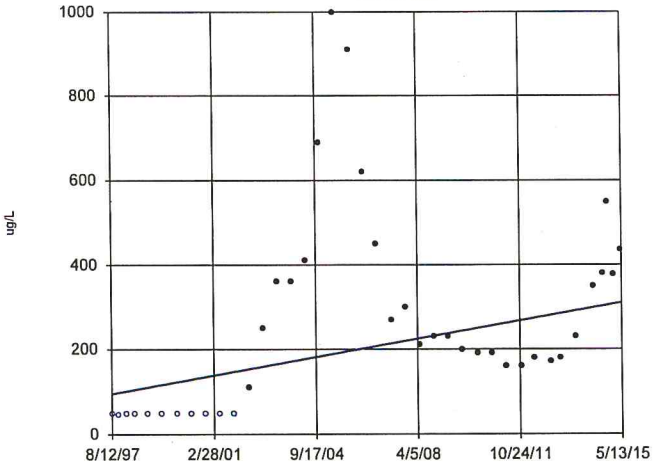
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 12.11 units per year.

Mann-Kendall statistic = 266 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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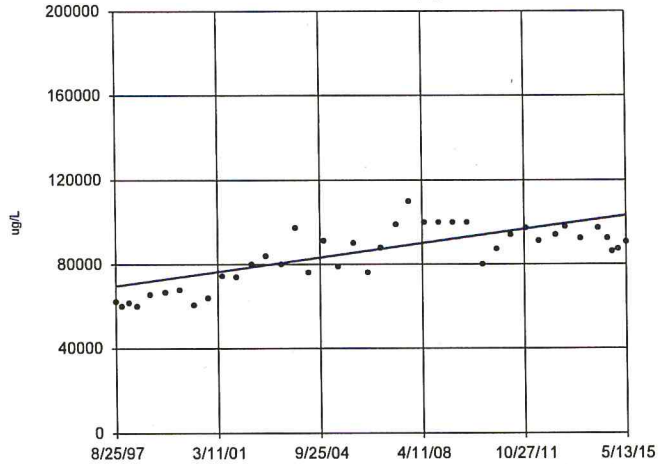
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 1908 units per year.

Mann-Kendall statistic = 403 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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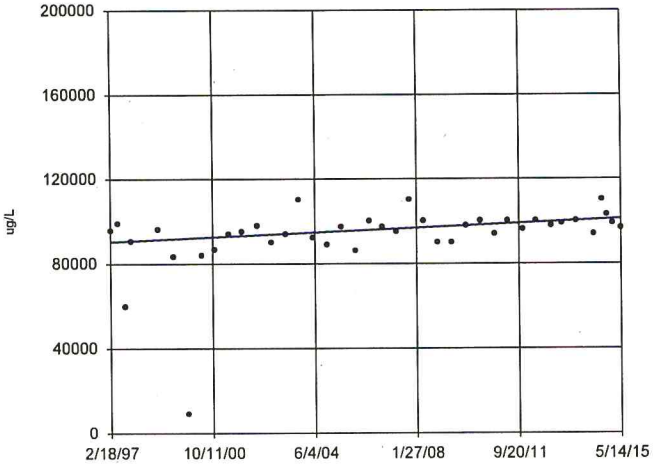
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 584.2 units per year.

Mann-Kendall statistic = 291 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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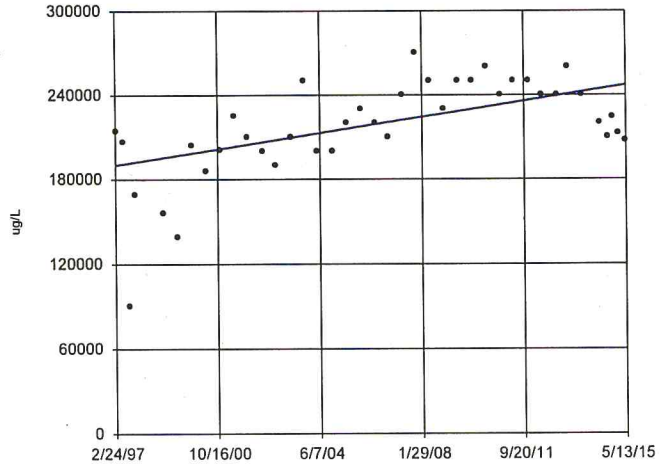
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 3124 units per year.

Mann-Kendall statistic = 313 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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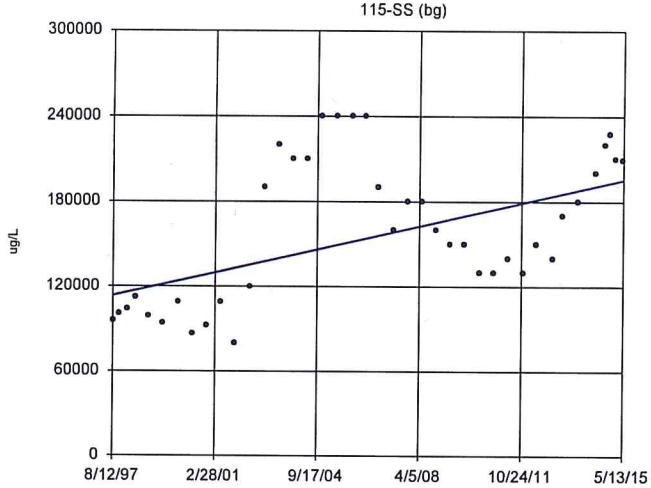
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 4611 units per year.

Mann-Kendall statistic = 259 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

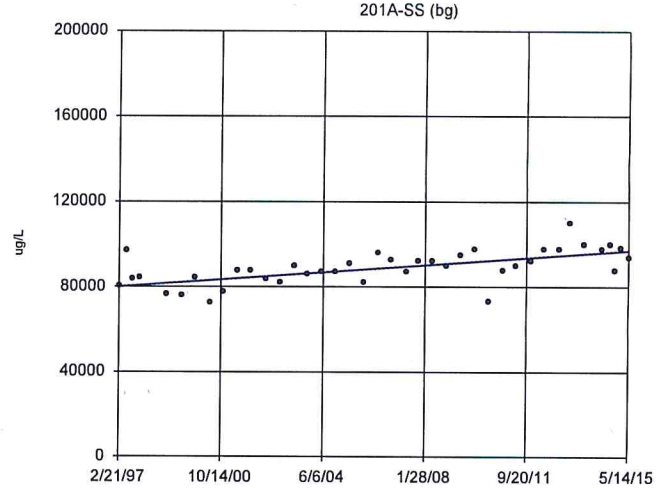
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 941.3 units per year.

Mann-Kendall statistic = 409 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

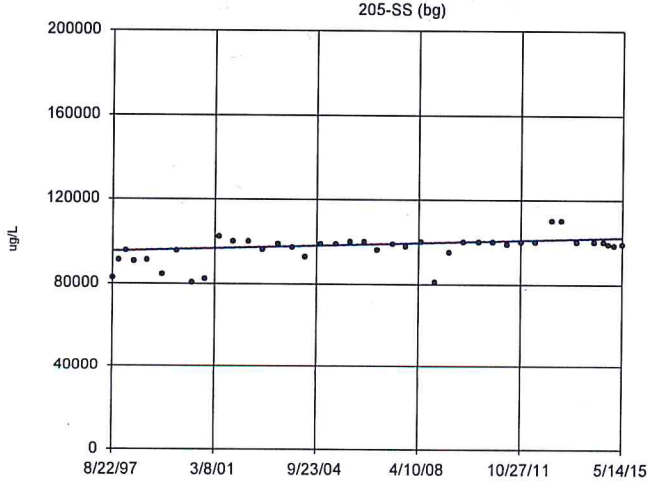
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 391 units per year.

Mann-Kendall statistic = 295 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM

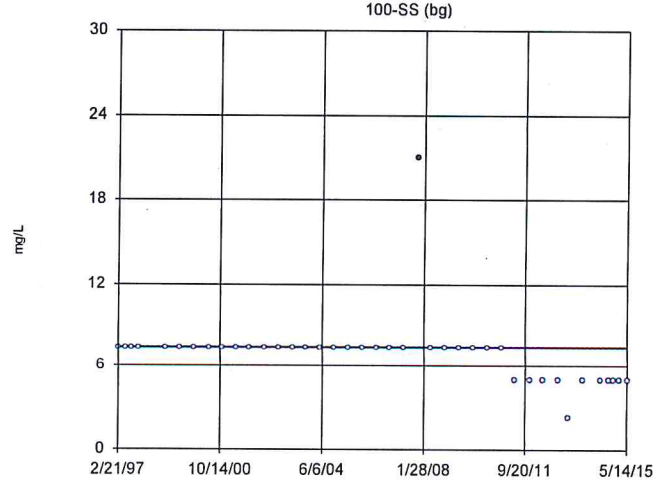
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -301 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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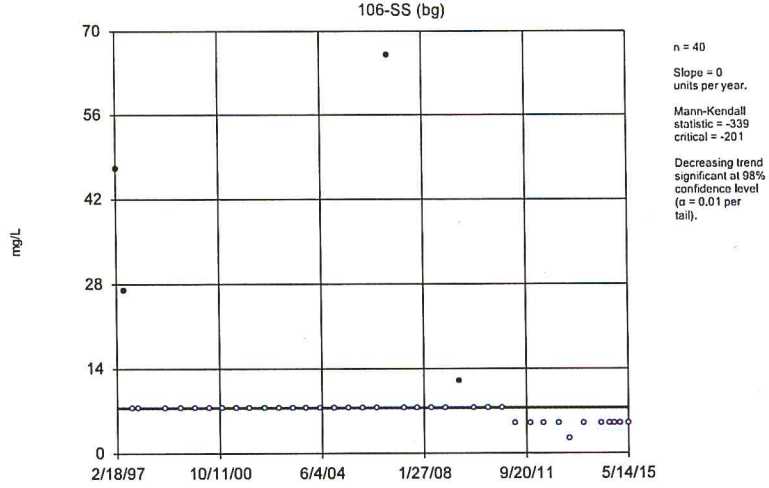
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -339
critical = -201

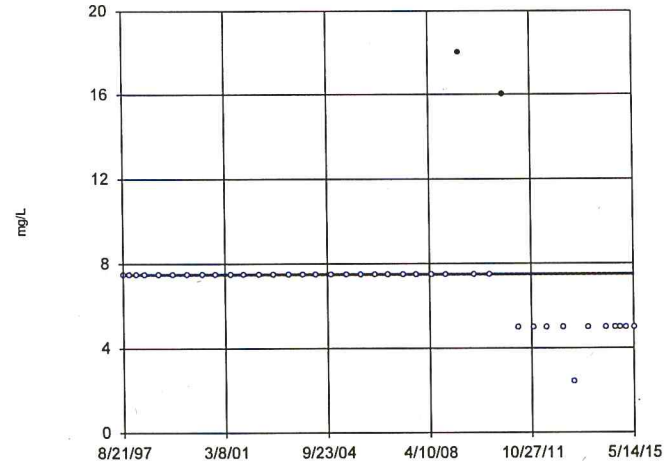
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -268
critical = -201

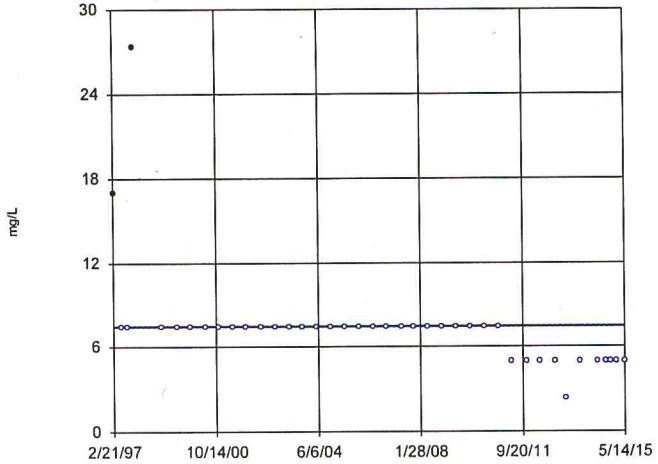
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -366
critical = -201

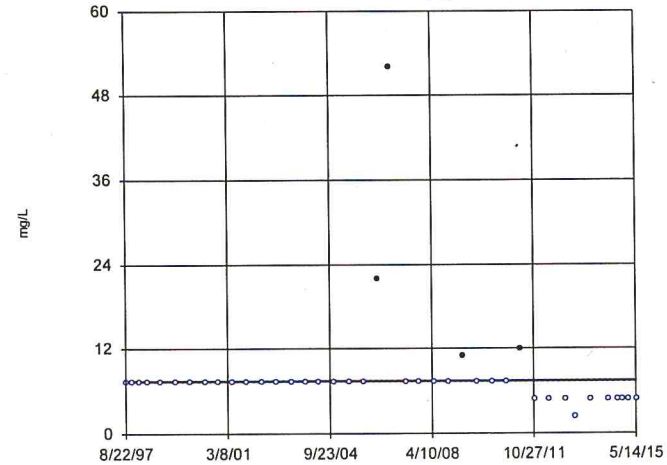
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

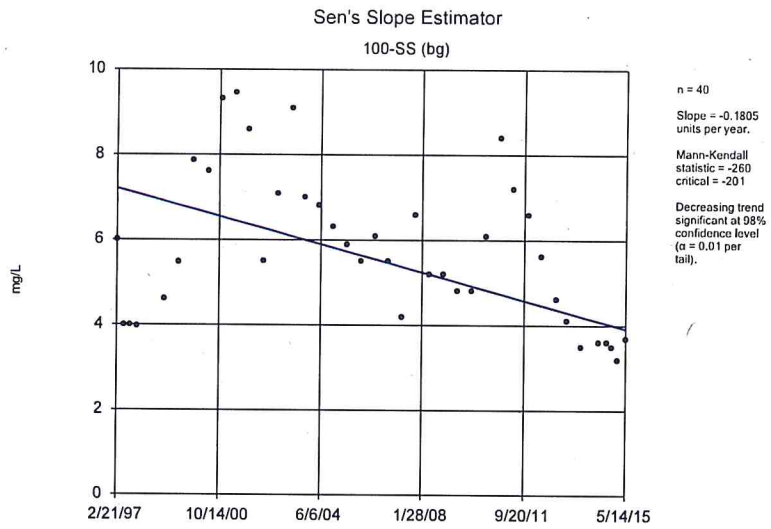
Slope = 0
units per year.

Mann-Kendall
statistic = -229
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

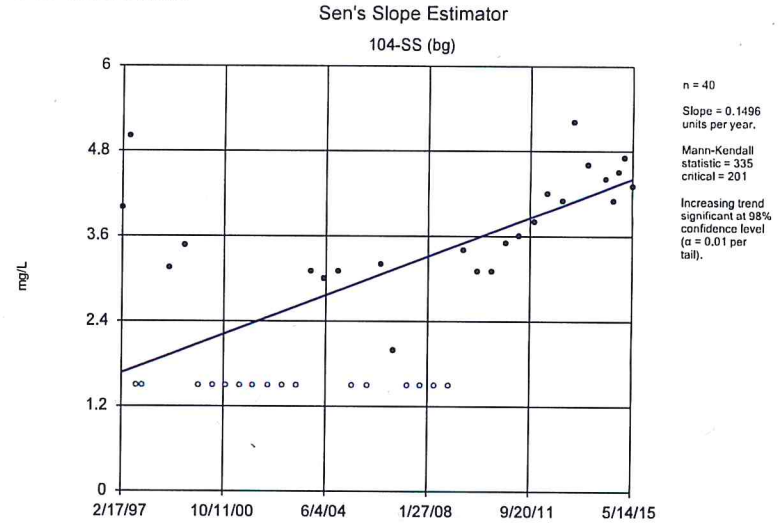
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



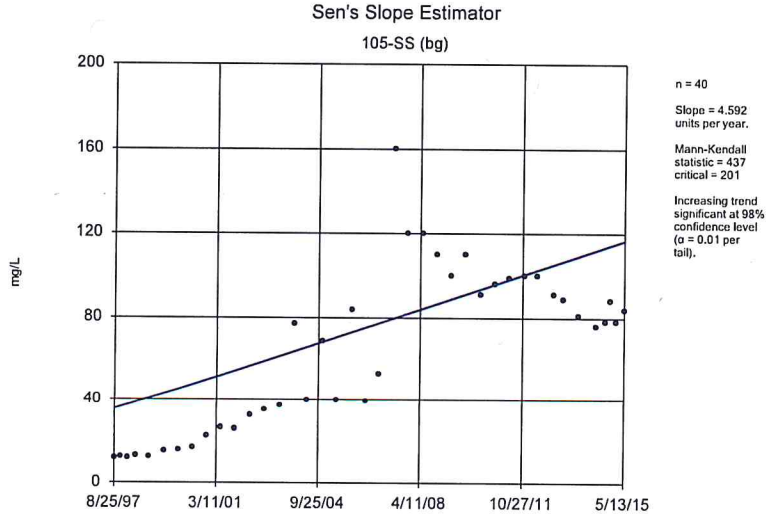
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



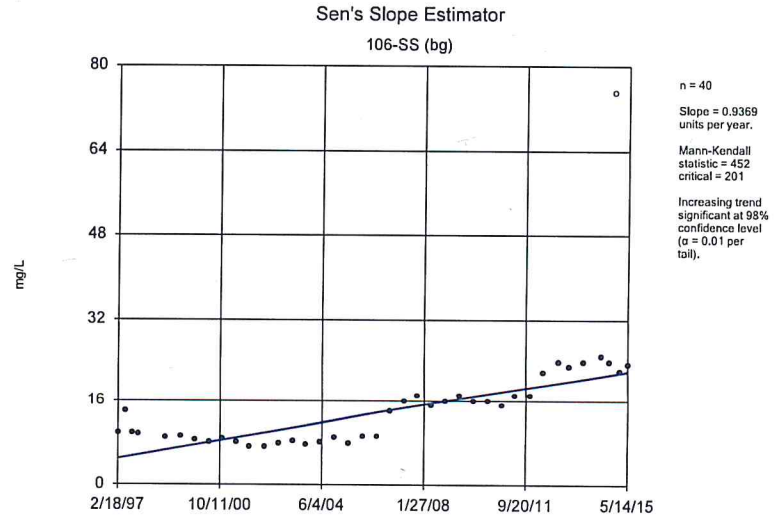
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

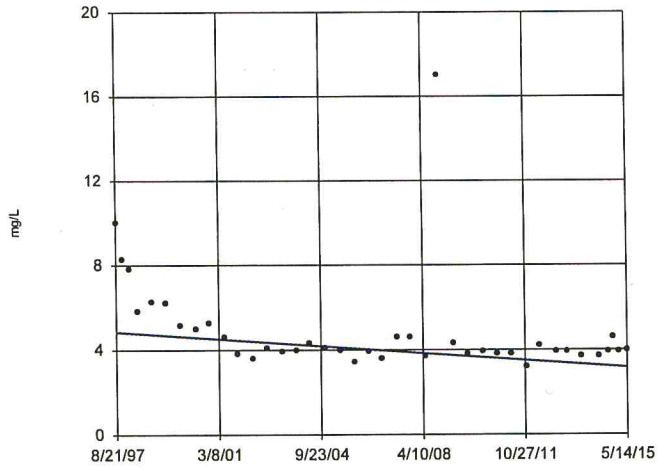


Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -0.09448 units per year.

Mann-Kendall statistic = -319 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

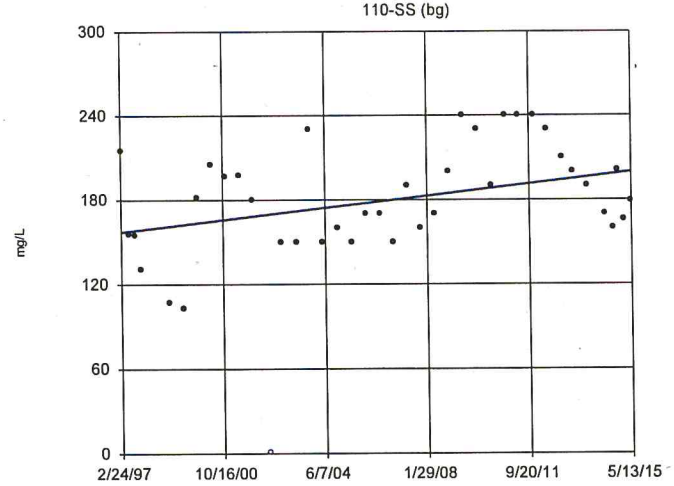
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 2.339 units per year.

Mann-Kendall statistic = 204 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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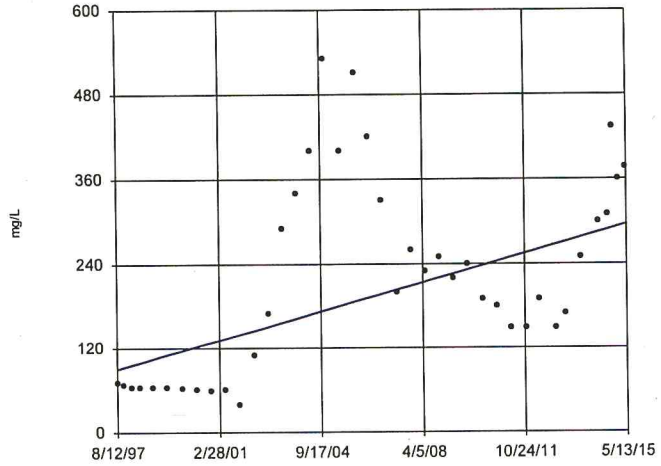
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 11.58 units per year.

Mann-Kendall statistic = 248 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

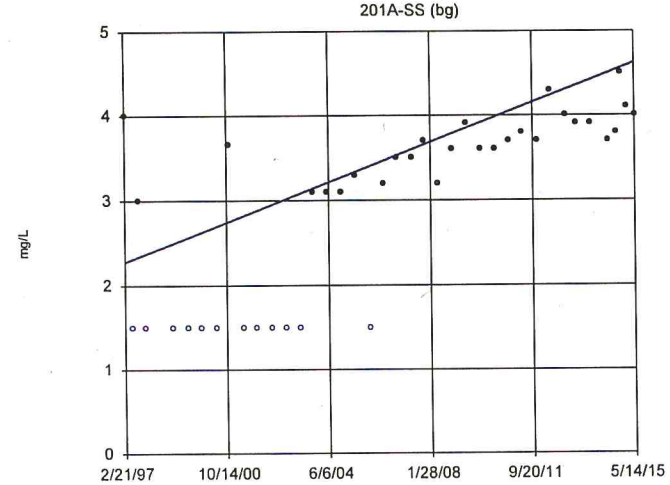
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.1287 units per year.

Mann-Kendall statistic = 491 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

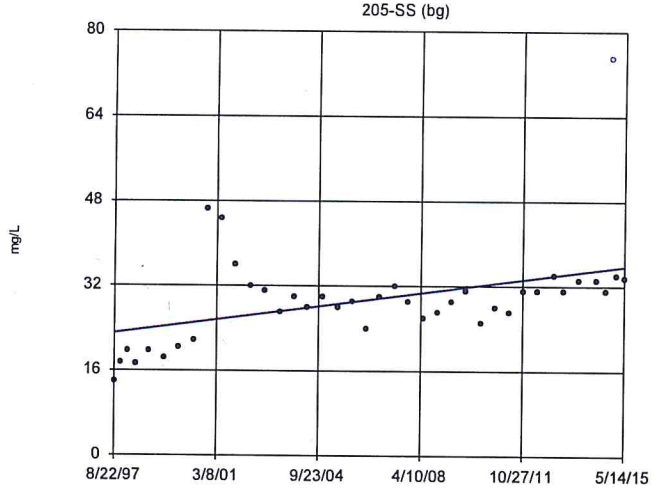
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.7123 units per year.

Mann-Kendall statistic = 329
critical = 201

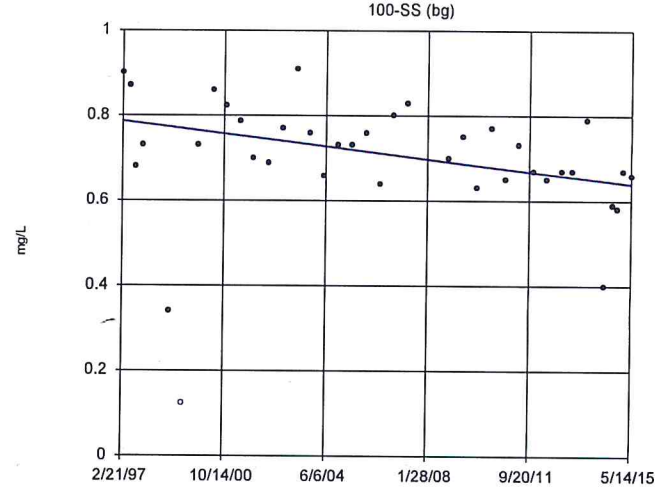
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 38

Slope = -0.008097 units per year.

Mann-Kendall statistic = -214
critical = -186

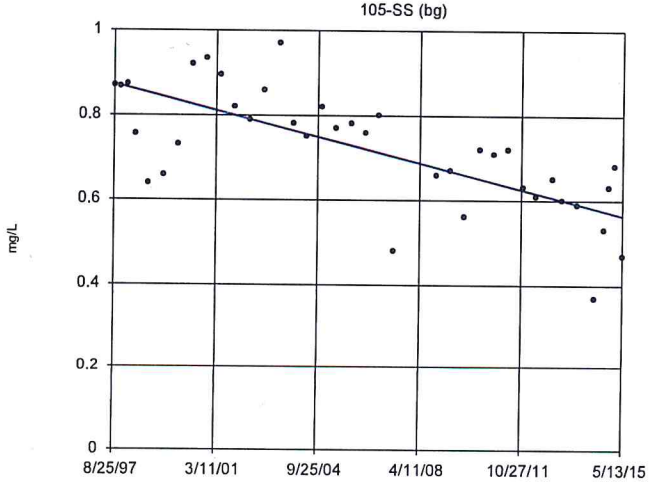
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 38

Slope = -0.01749 units per year.

Mann-Kendall statistic = -384
critical = -186

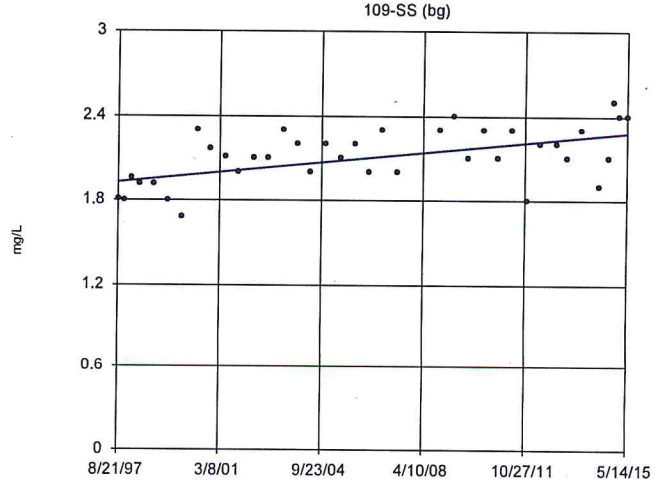
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

109-SS (bg)



n = 38

Slope = 0.0198 units per year.

Mann-Kendall statistic = 264
critical = 186

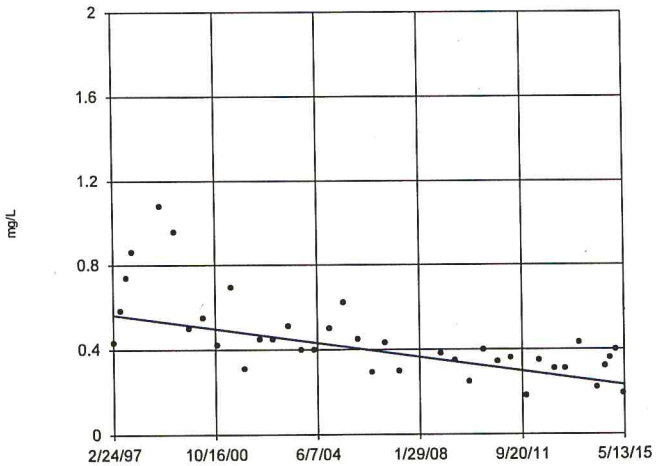
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 38

Slope = -0.01819 units per year.

Mann-Kendall statistic = -375 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

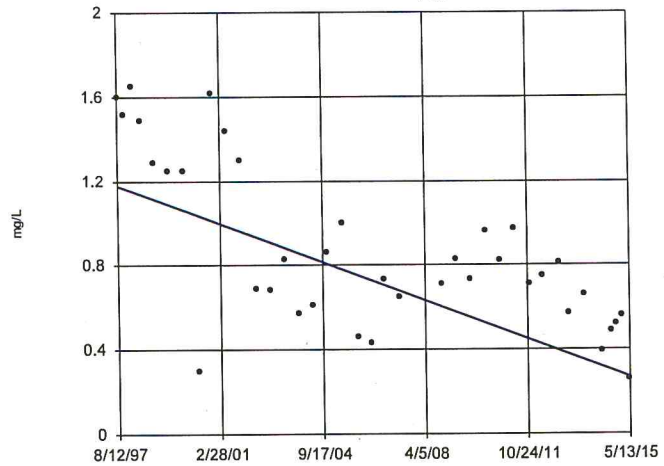
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 38

Slope = -0.05116 units per year.

Mann-Kendall statistic = -340 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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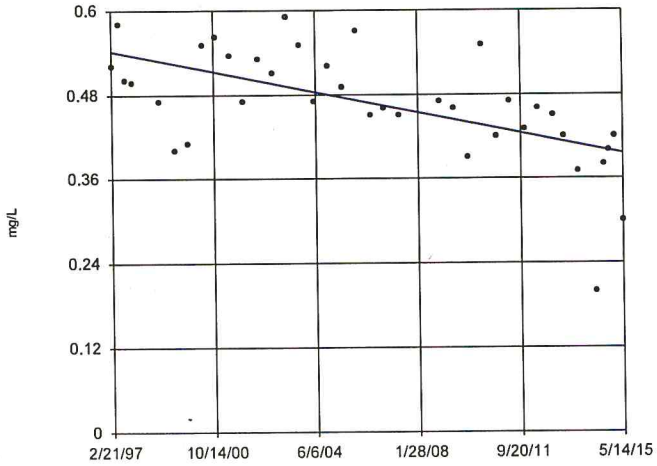
Sen's Slope Estimator

201A-SS (bg)



n = 38

Slope = -0.008016 units per year.

Mann-Kendall statistic = -341 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

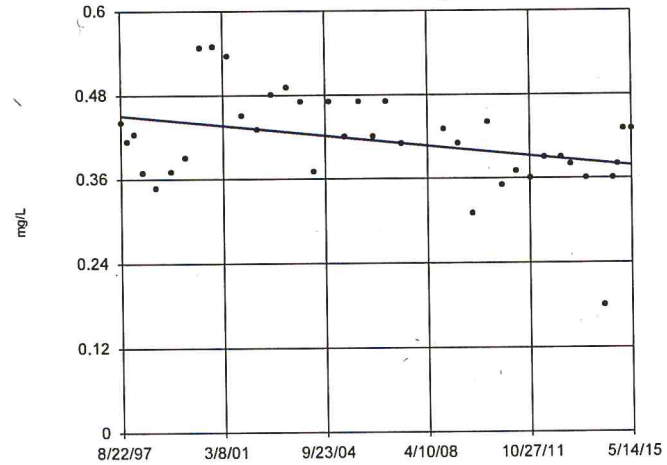
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 38

Slope = -0.004092 units per year.

Mann-Kendall statistic = -188 critical = -186

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

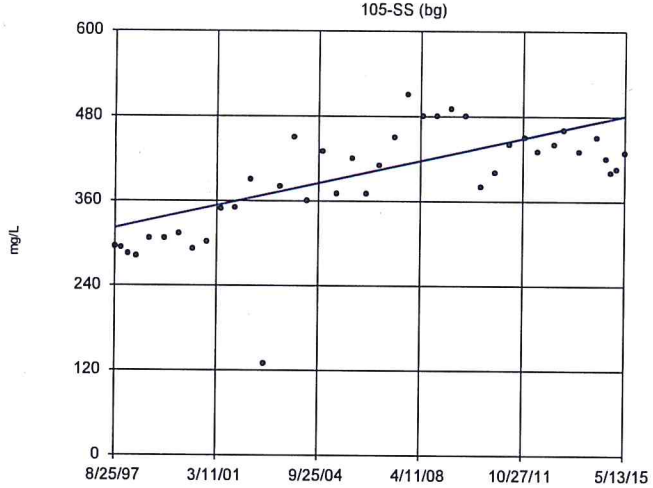
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 9.008 units per year.

Mann-Kendall statistic = 387 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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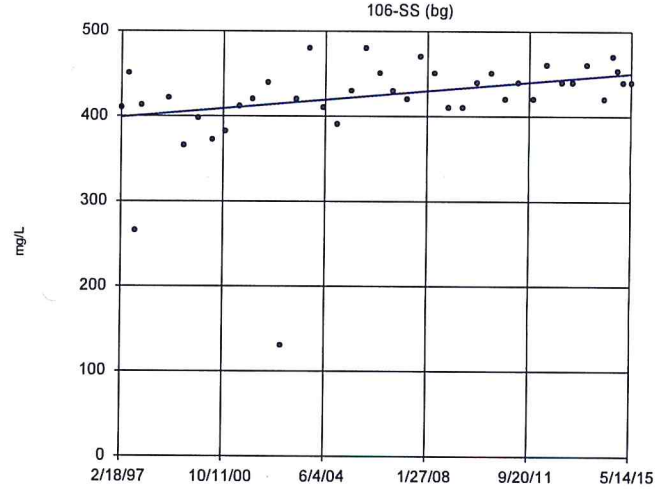
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 2.804 units per year.

Mann-Kendall statistic = 278 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

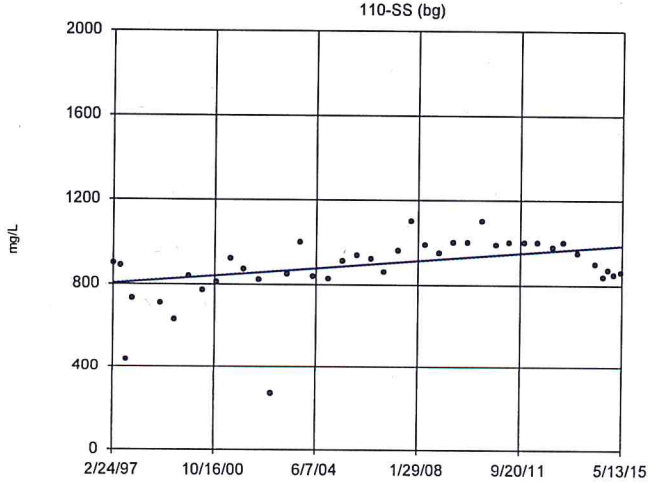
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 10.01 units per year.

Mann-Kendall statistic = 287 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

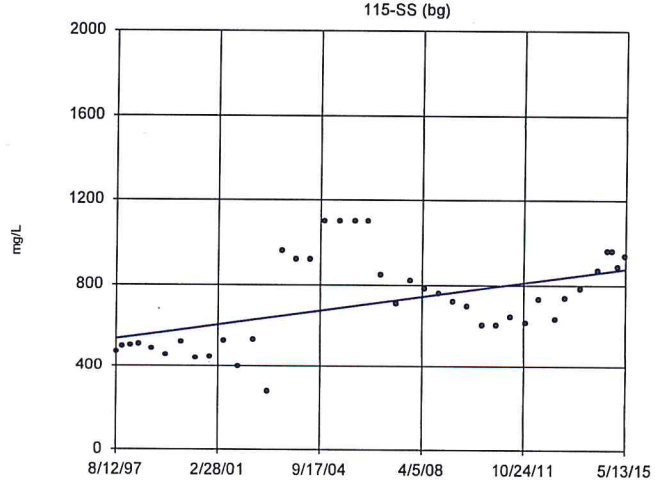
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 18.87 units per year.

Mann-Kendall statistic = 276 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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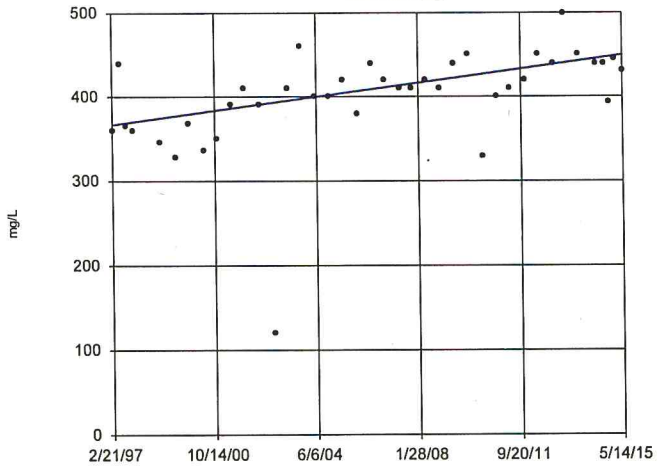
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 4.532 units per year.

Mann-Kendall statistic = 349 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

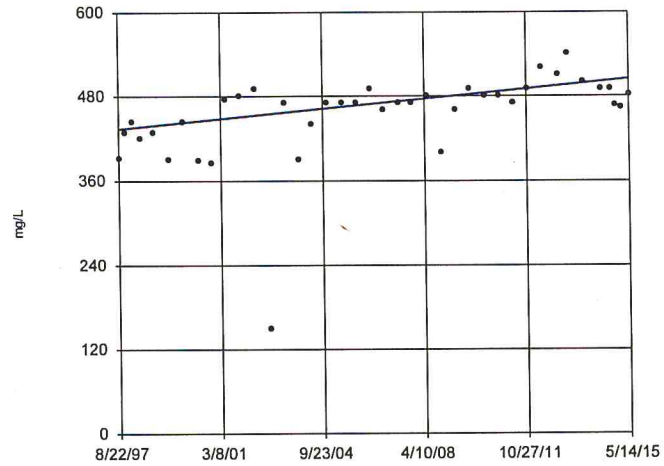
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 3.993 units per year.

Mann-Kendall statistic = 352 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

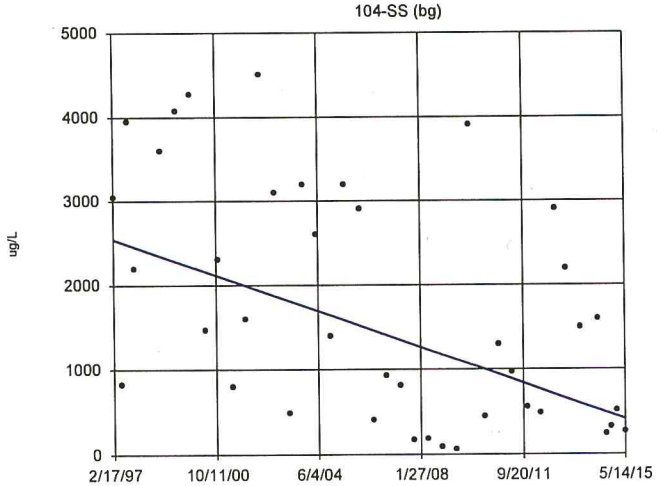
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -116.2 units per year.

Mann-Kendall statistic = -276 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

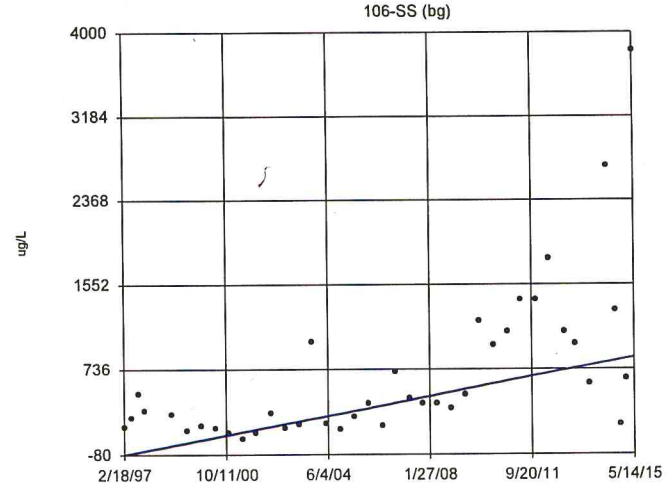
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 51.01 units per year.

Mann-Kendall statistic = 414 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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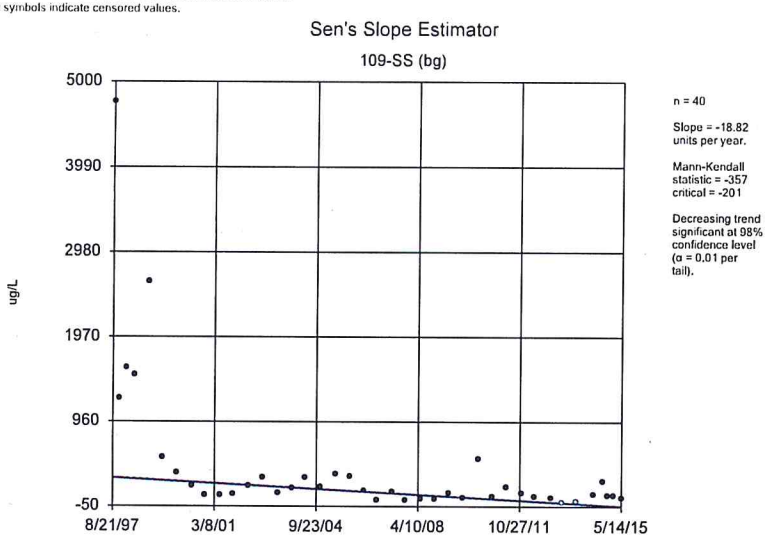
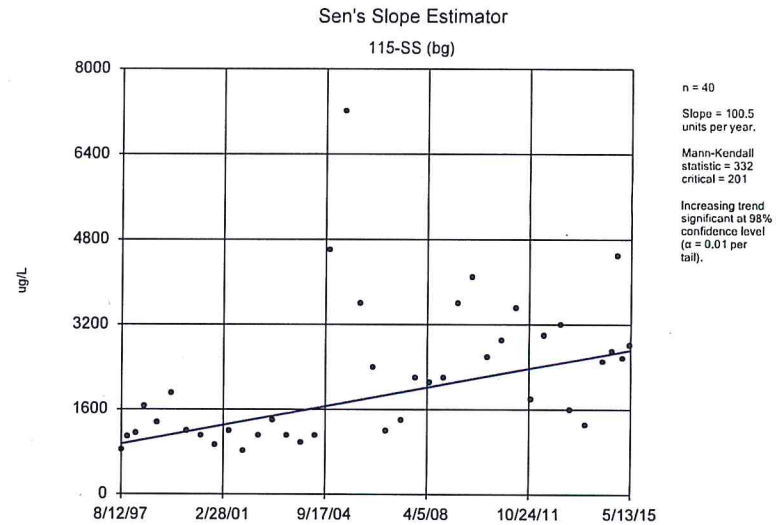
Hollow symbols indicate censored values.



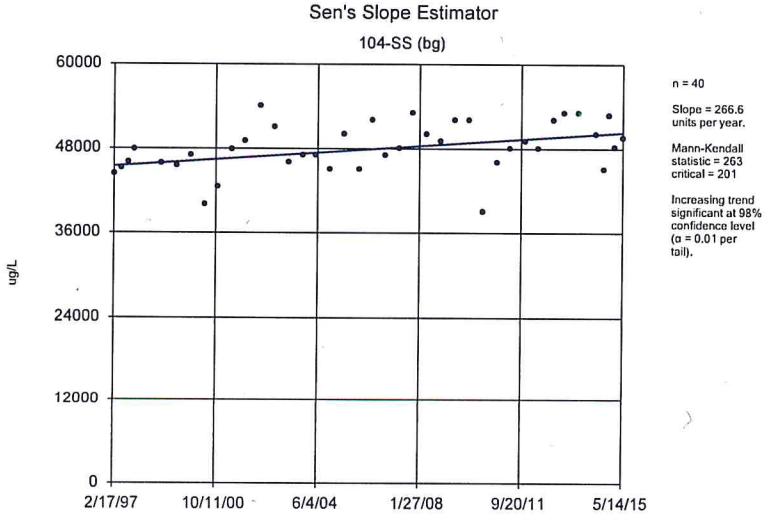
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



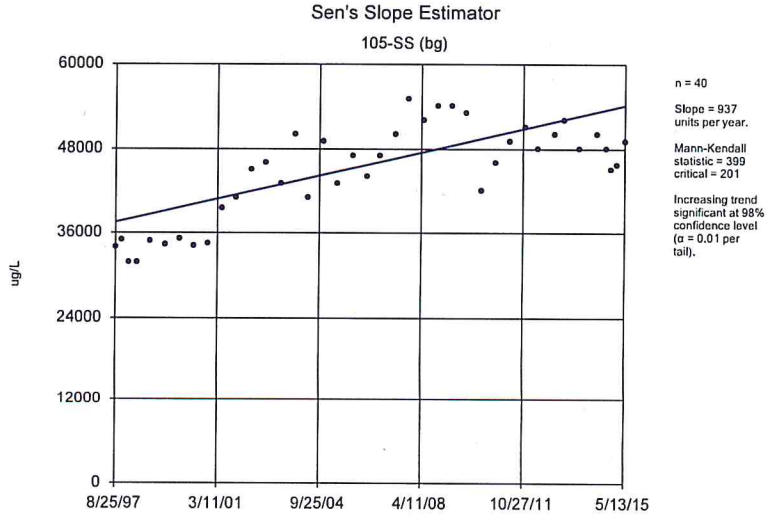
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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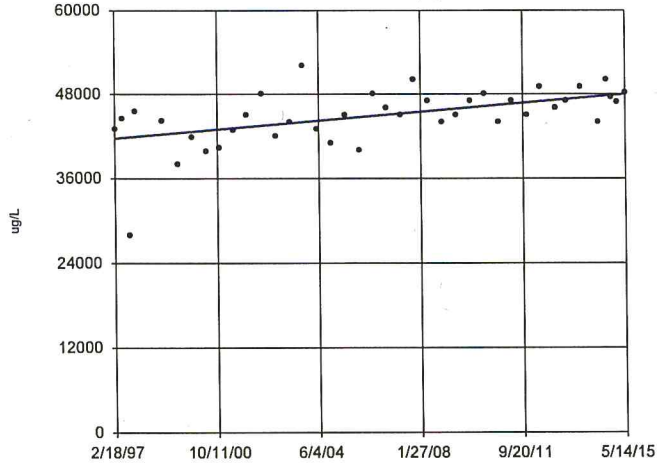
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 346.9 units per year.

Mann-Kendall statistic = 326 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

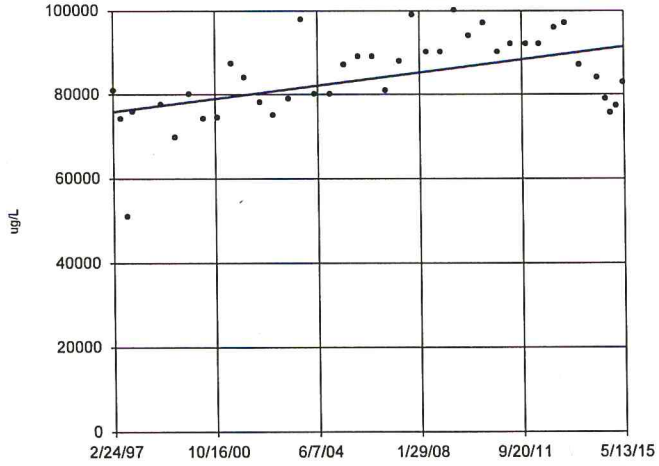
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 851.4 units per year.

Mann-Kendall statistic = 291 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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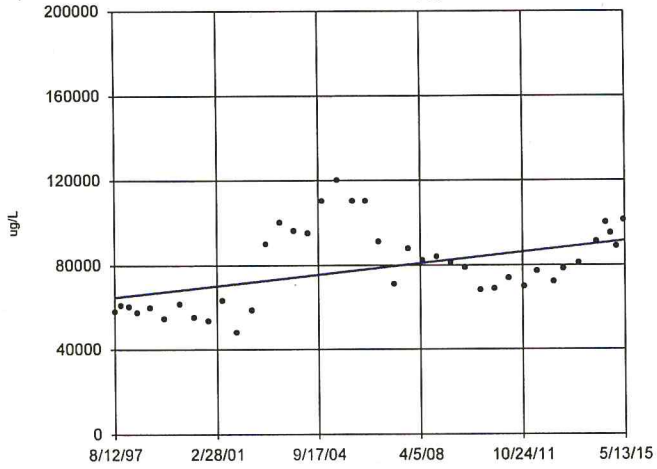
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1502 units per year.

Mann-Kendall statistic = 244 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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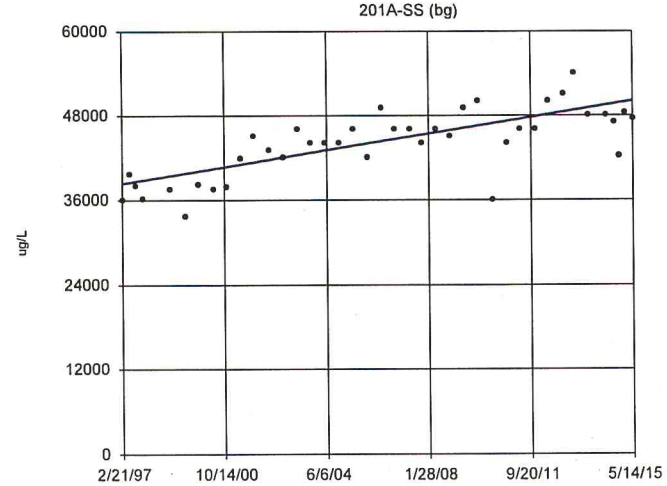
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 642.5 units per year.

Mann-Kendall statistic = 444 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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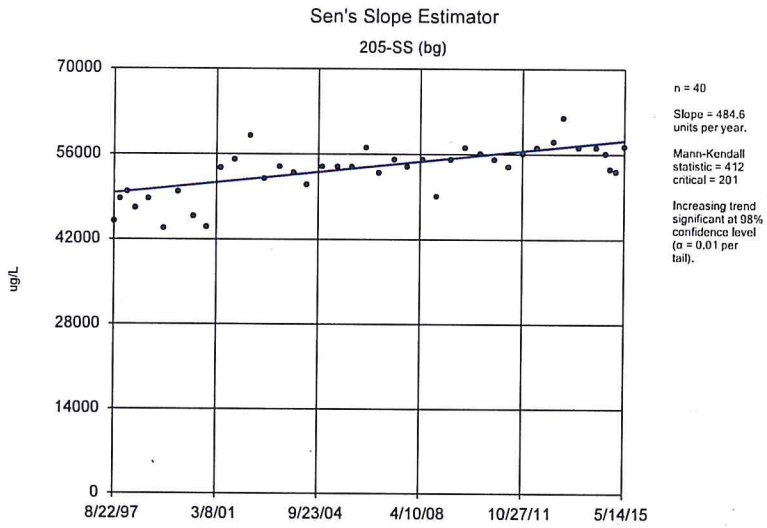
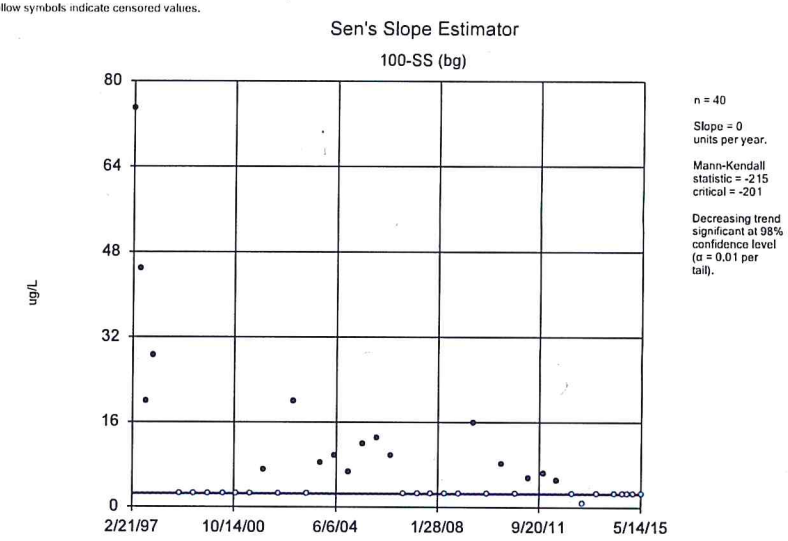


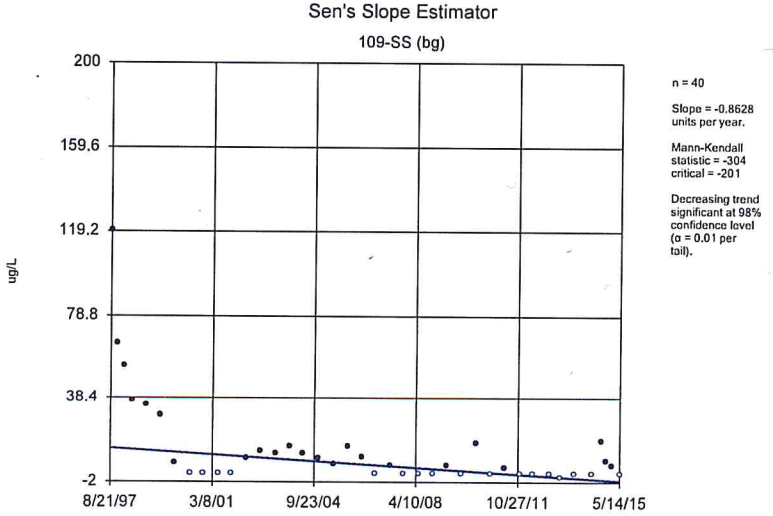
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



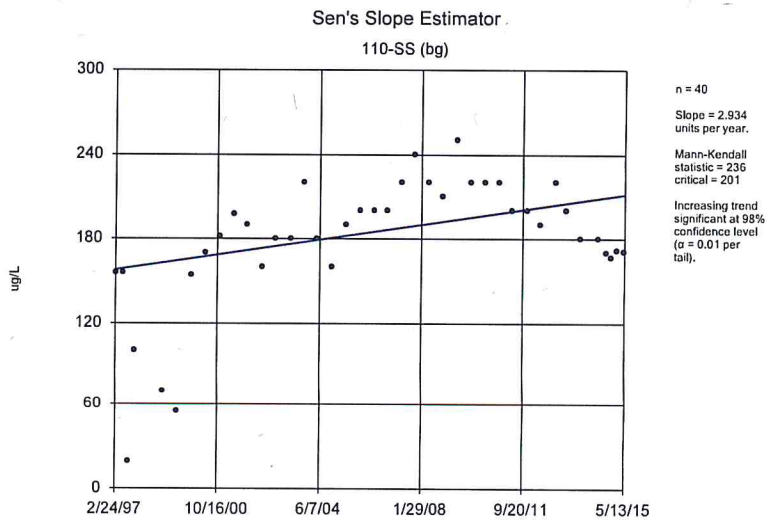
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

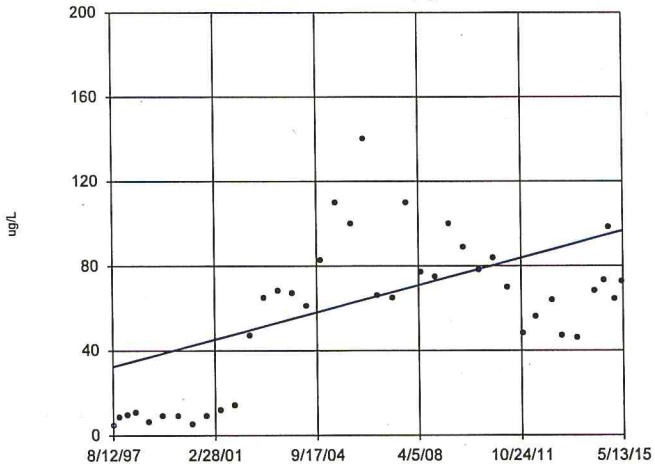


Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 3.607 units per year.

Mann-Kendall statistic = 301
critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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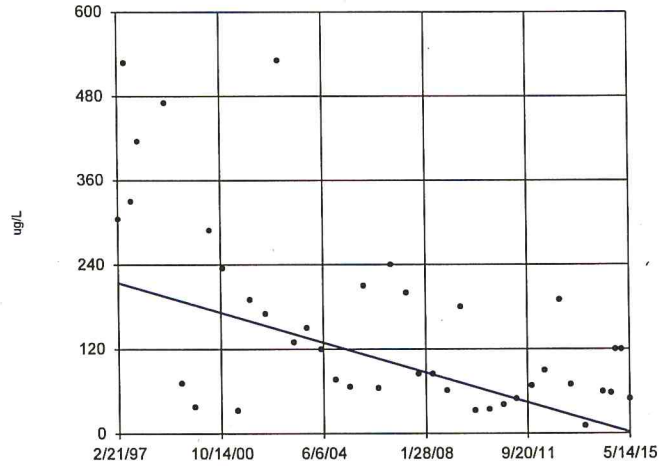
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -11.65 units per year.

Mann-Kendall statistic = -318
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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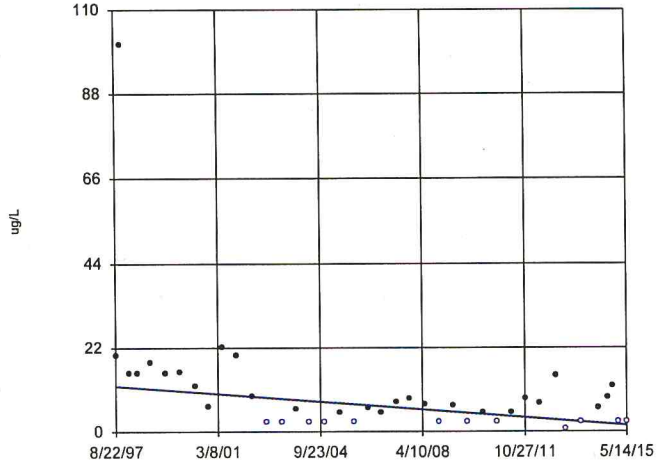
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.5884 units per year.

Mann-Kendall statistic = -264
critical = -201

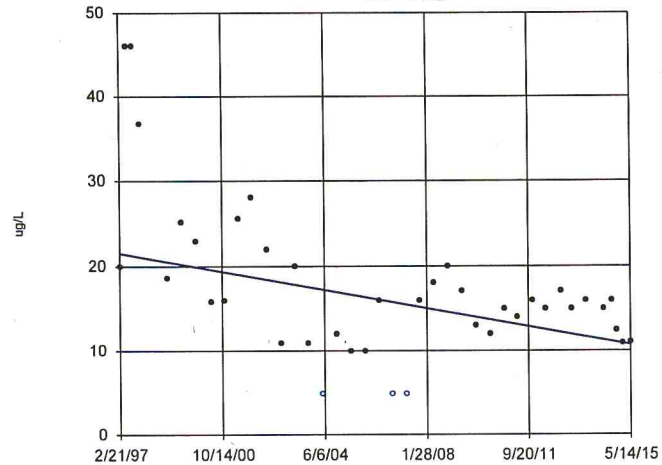
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -0.5913 units per year.

Mann-Kendall statistic = -261
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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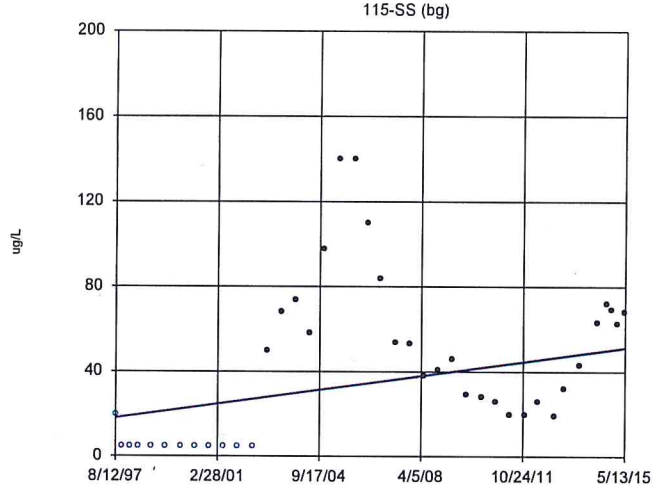
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1.87 units per year.

Mann-Kendall statistic = 232 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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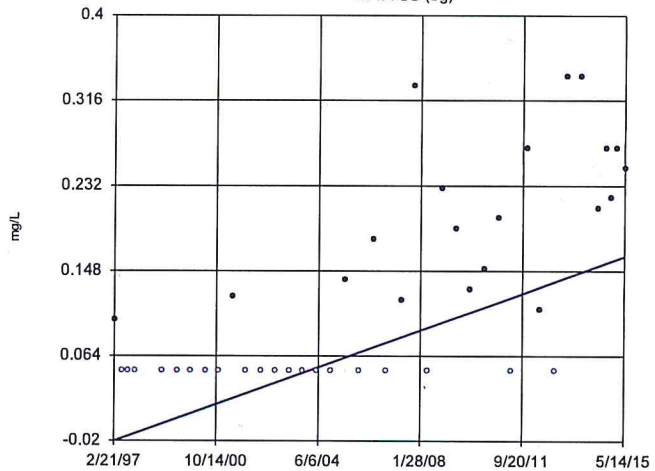
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.01 units per year.

Mann-Kendall statistic = 364 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nitrate/Nitrite Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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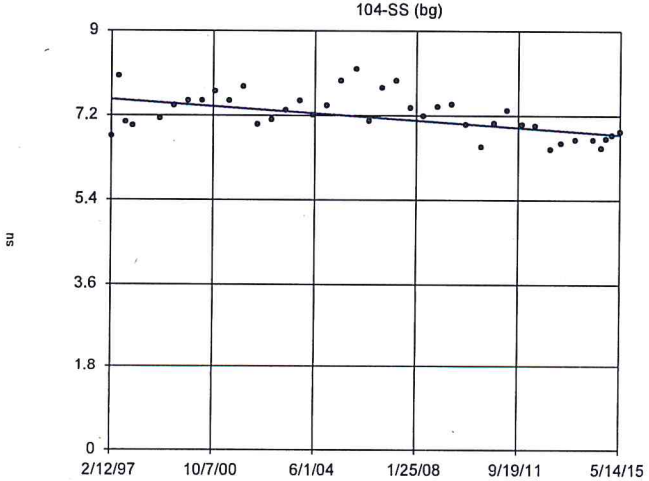
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -0.0405 units per year.

Mann-Kendall statistic = -277 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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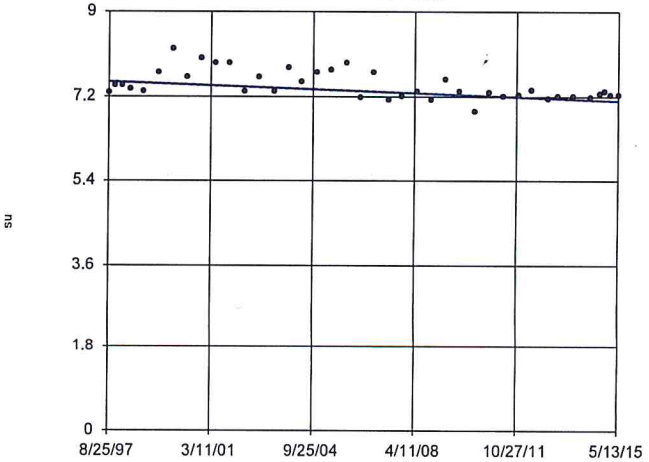
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.02251 units per year.

Mann-Kendall statistic = -283 critical = -201

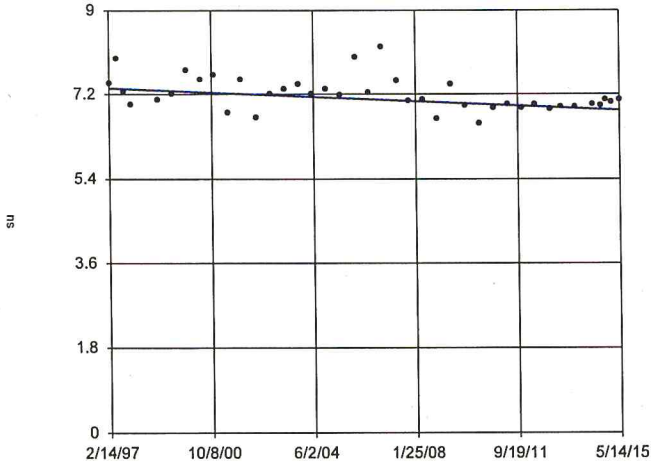
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = -0.02559 units per year.

Mann-Kendall statistic = -255 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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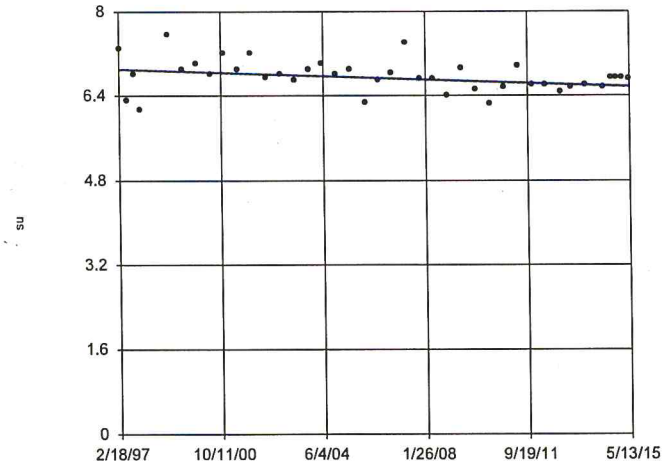
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -0.01825 units per year.

Mann-Kendall statistic = -207 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

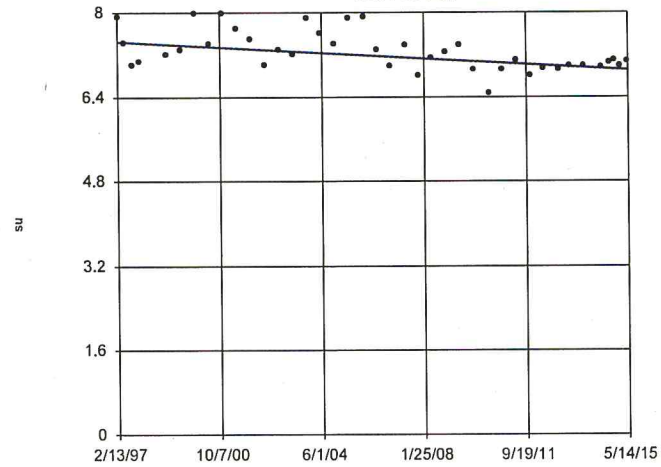
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -0.0296 units per year.

Mann-Kendall statistic = -300 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

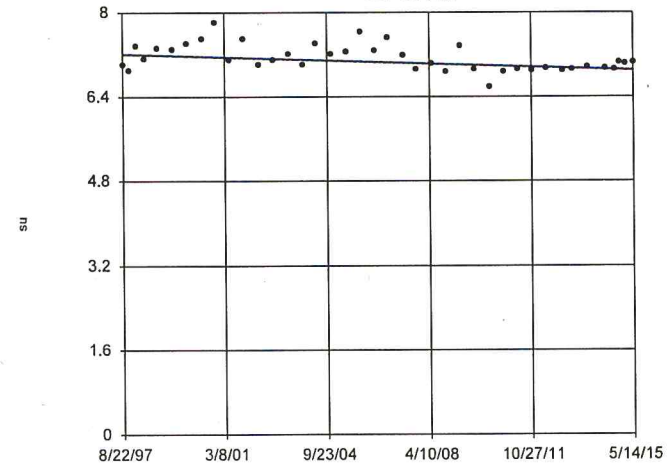
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.01733 units per year.

Mann-Kendall statistic = -228 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

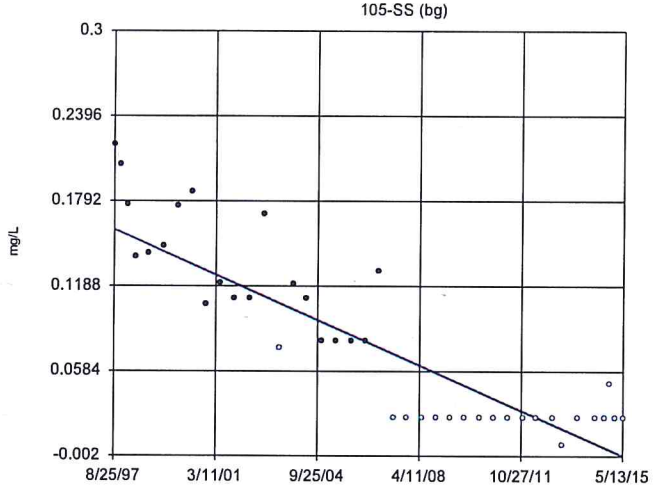
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.009051 units per year.

Mann-Kendall statistic = -509 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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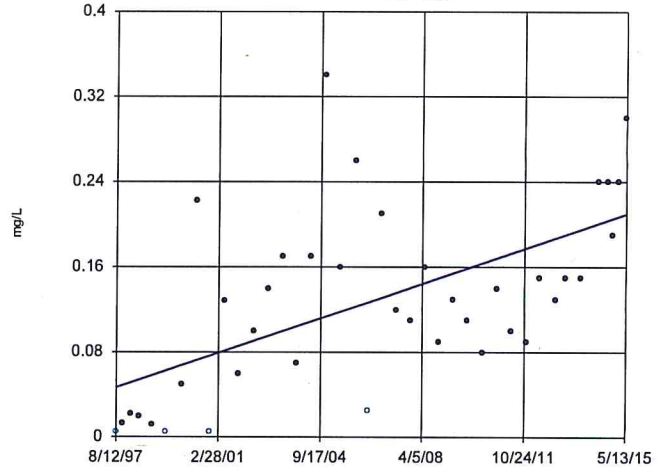
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.009173 units per year.

Mann-Kendall statistic = 344 critical = 201

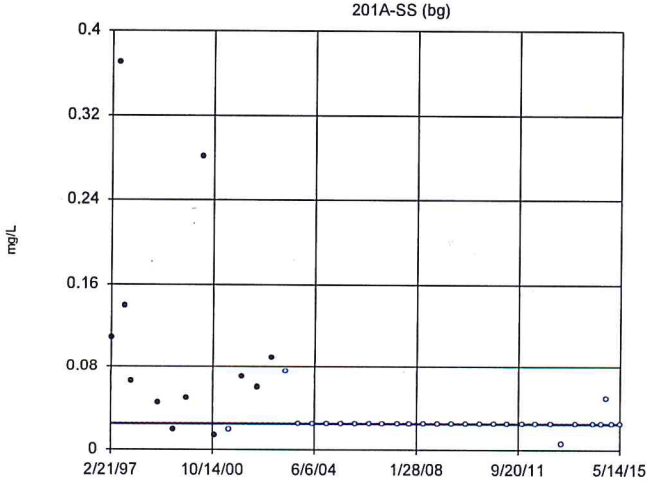
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -217 critical = -201

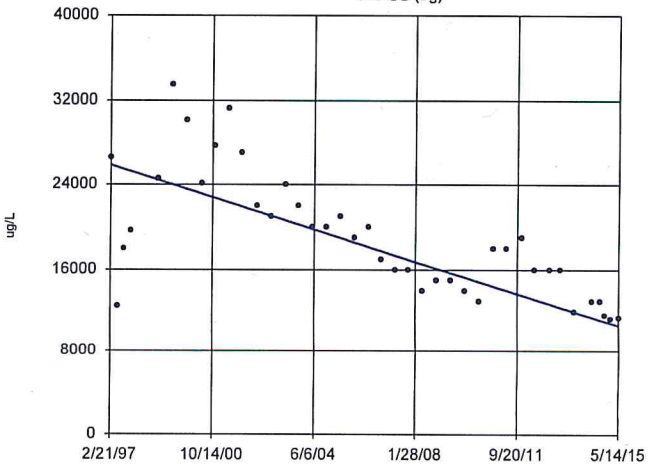
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -831.9 units per year.

Mann-Kendall statistic = -488 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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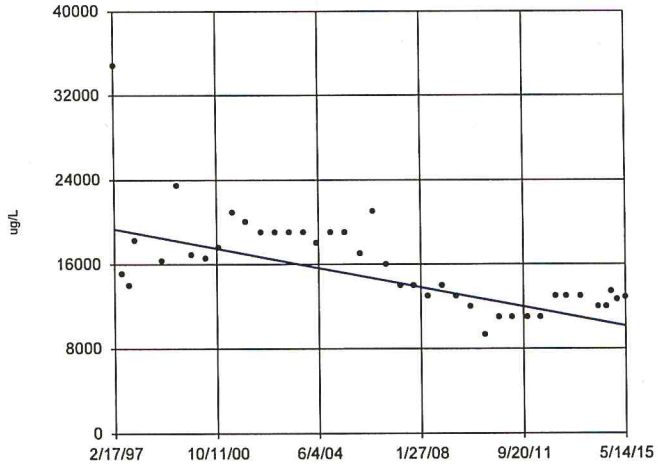
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -502.2 units per year.

Mann-Kendall statistic = -400 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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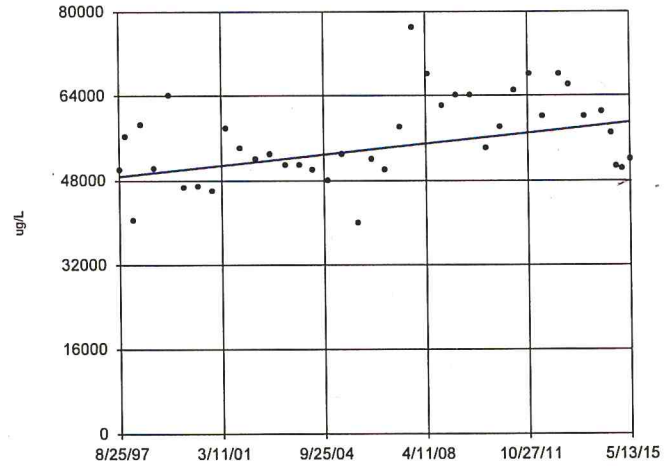
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 571 units per year.

Mann-Kendall statistic = 215 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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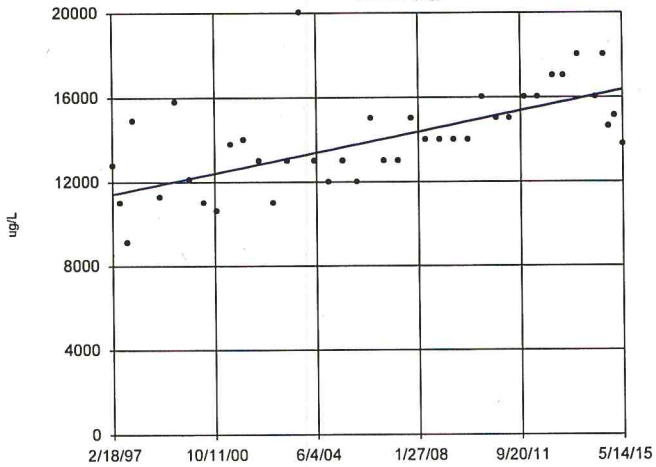
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 269.6 units per year.

Mann-Kendall statistic = 394 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

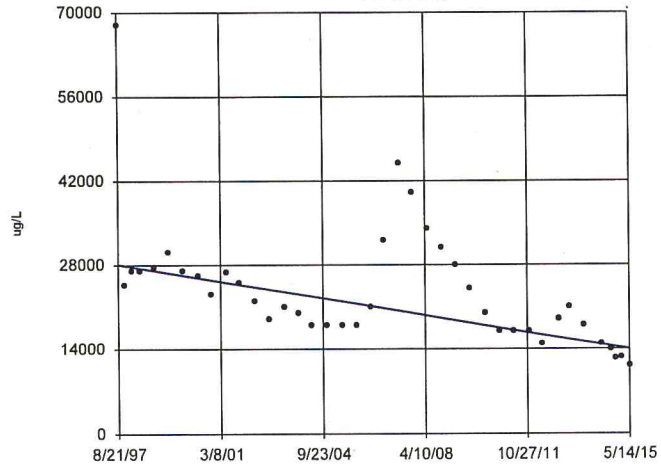
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -794.1 units per year.

Mann-Kendall statistic = -400 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

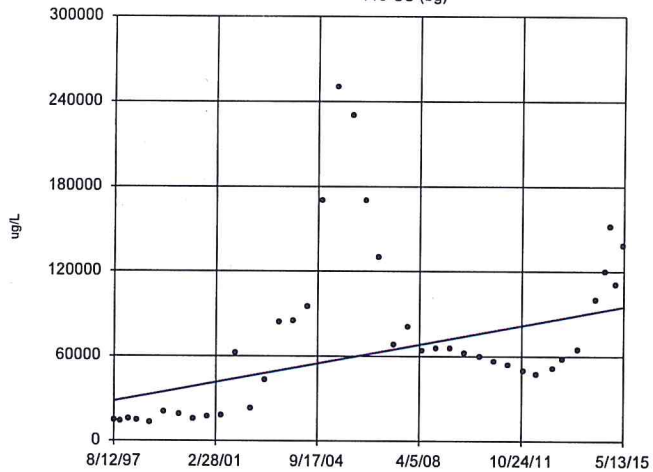
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 3767 units per year.

Mann-Kendall statistic = 297 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

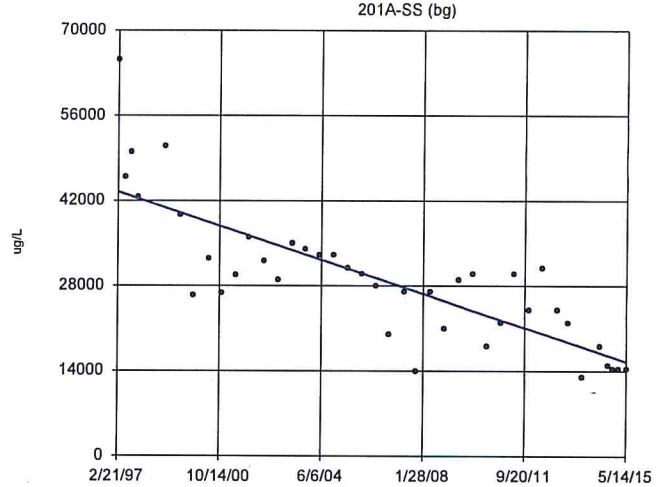
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -1529 units per year.

Mann-Kendall statistic = -493 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

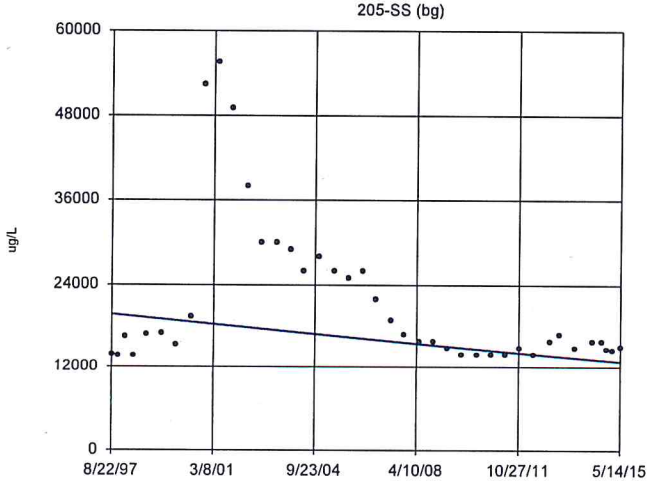
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -392.5 units per year.

Mann-Kendall statistic = -234 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

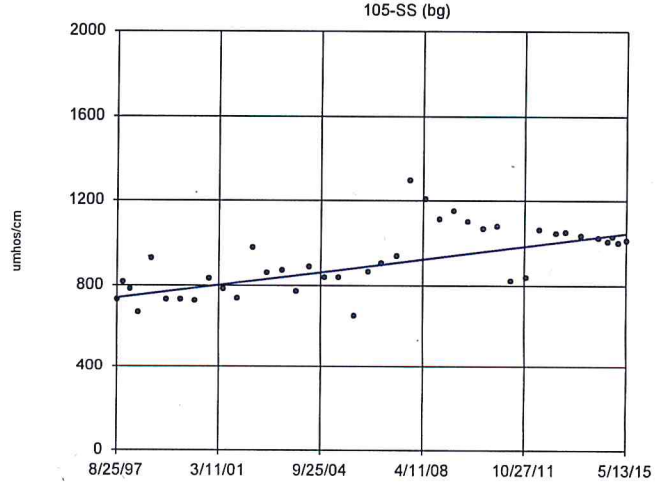
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 17.15 units per year.

Mann-Kendall statistic = 333 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

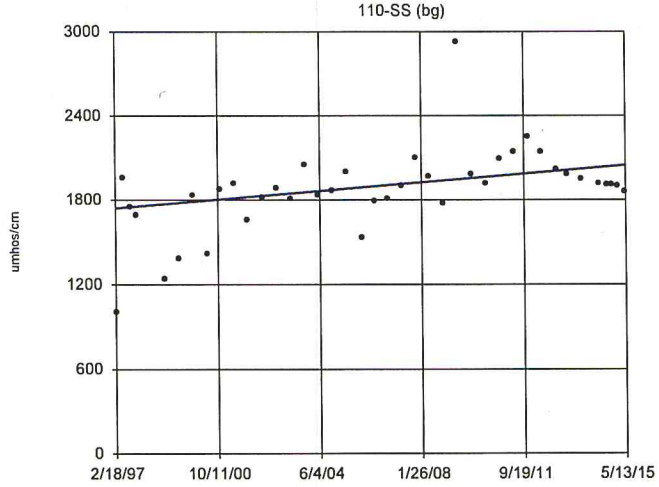
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 16.95 units per year.

Mann-Kendall statistic = 292 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

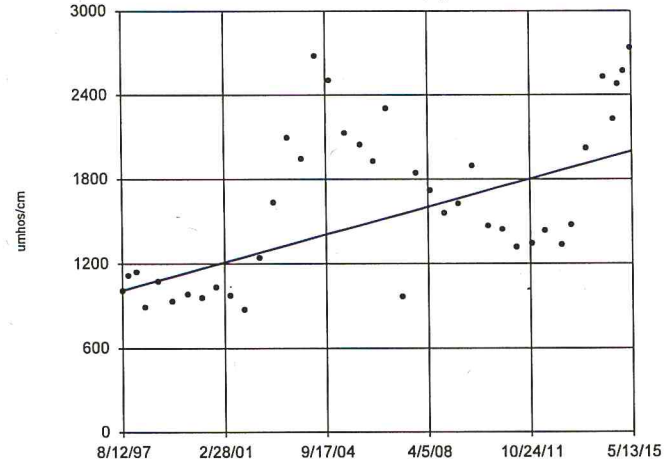
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 55.65 units per year.

Mann-Kendall statistic = 298 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

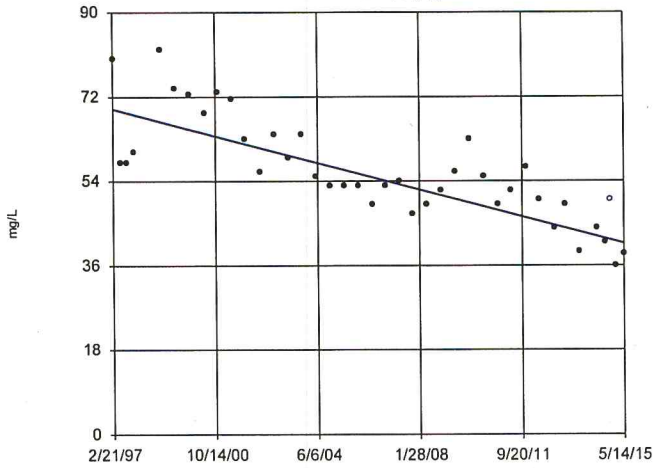
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -1.575 units per year.

Mann-Kendall statistic = -512 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

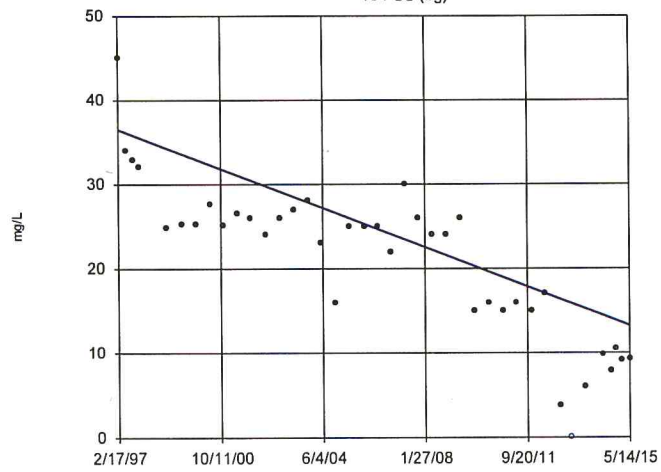
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -1.275 units per year.

Mann-Kendall statistic = -505 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

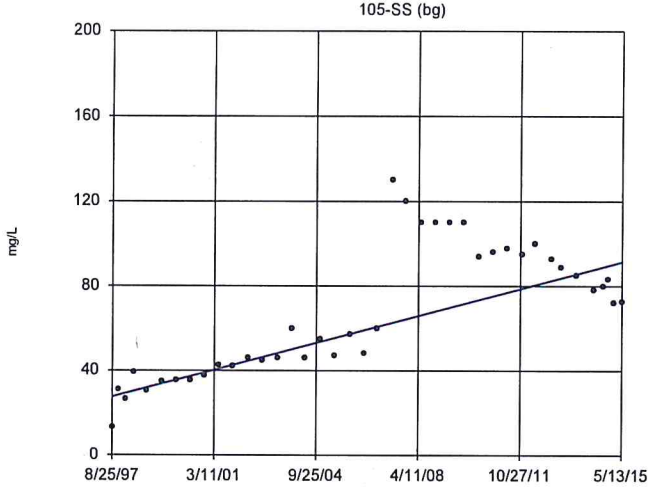
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 3.61 units per year.

Mann-Kendall statistic = 428 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

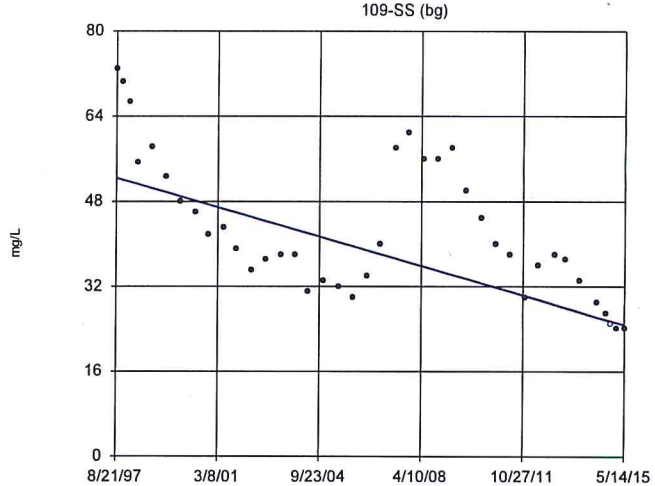
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -1.556 units per year.

Mann-Kendall statistic = -397 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

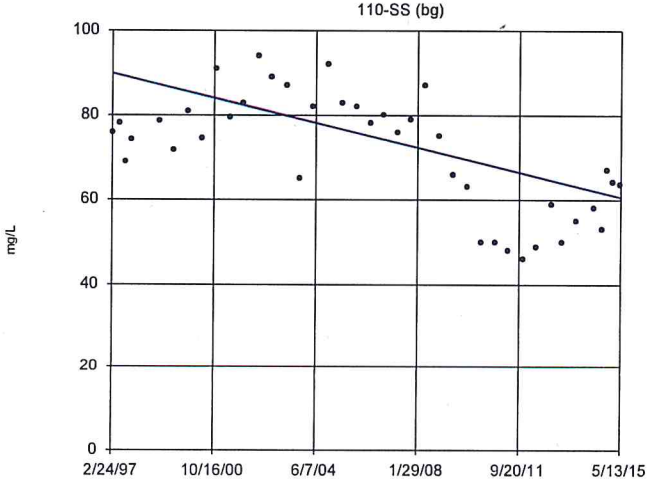
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -1.606 units per year.

Mann-Kendall statistic = -300 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

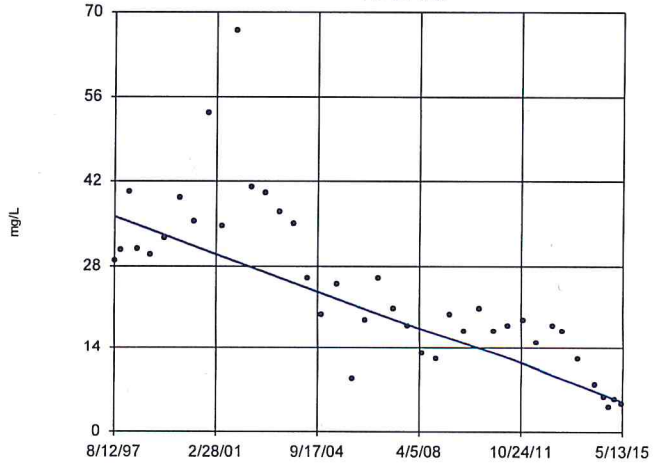
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = -1.746 units per year.

Mann-Kendall statistic = -505 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

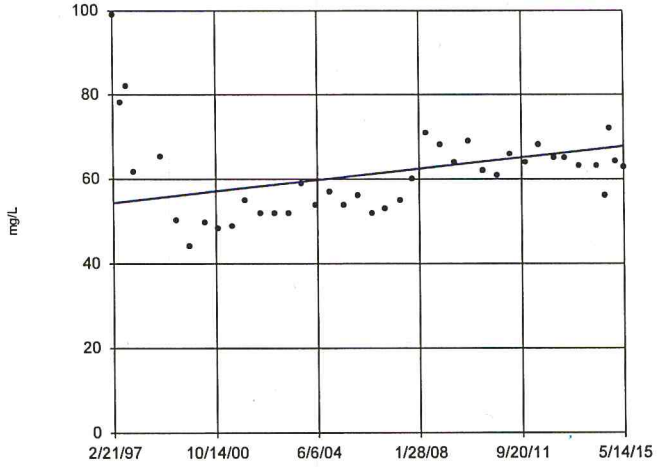
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.7361 units per year.

Mann-Kendall statistic = 205 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

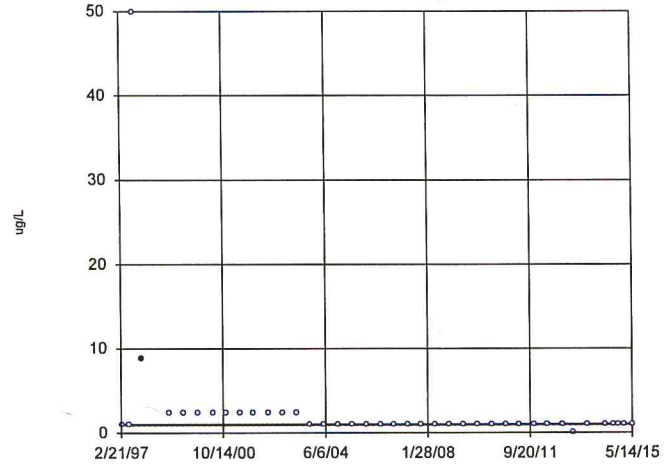
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -324 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

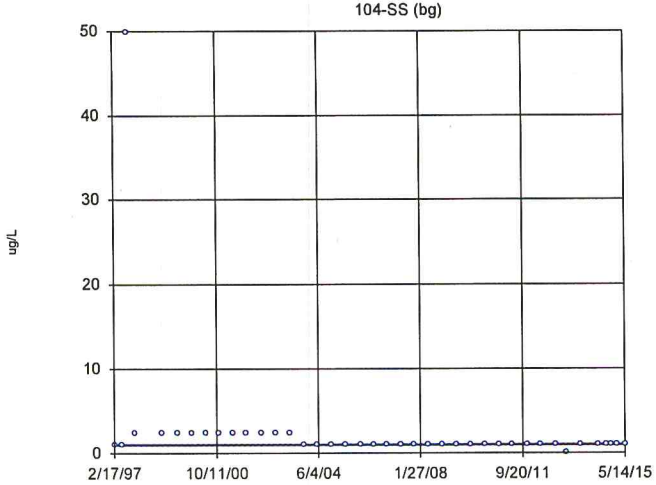
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -314 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

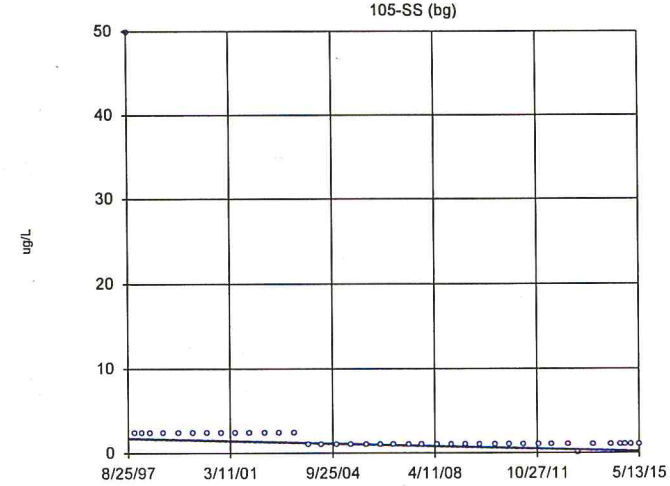
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.08868 units per year.

Mann-Kendall statistic = -390 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

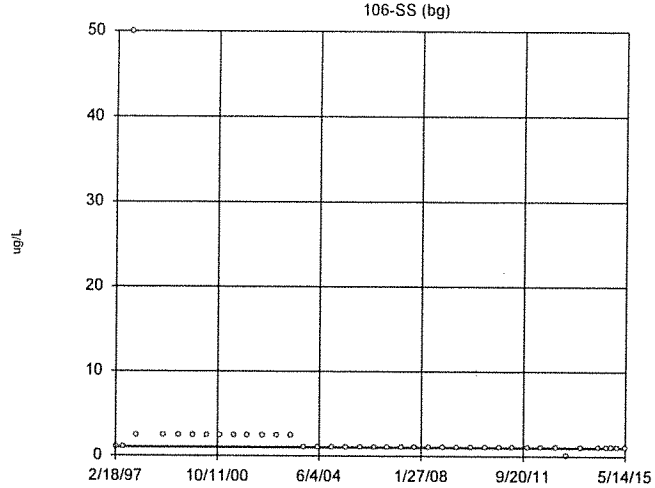
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -314
critical = -201

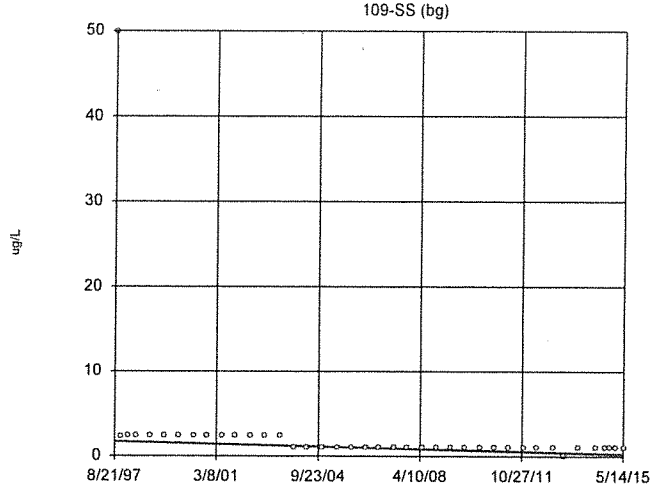
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -0.08239 units per year.

Mann-Kendall statistic = -378
critical = -201

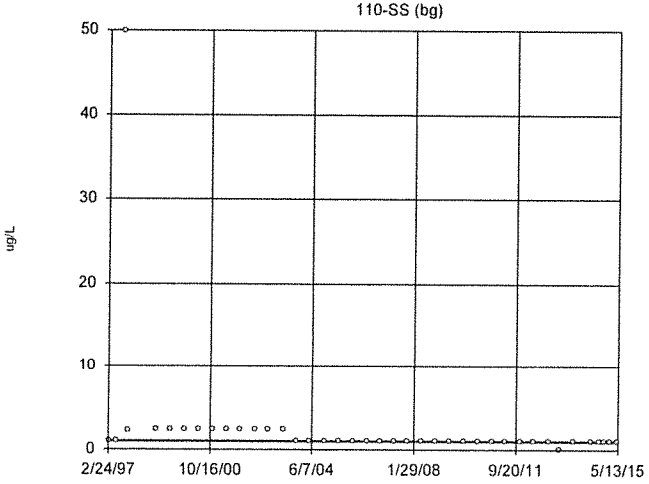
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -304
critical = -201

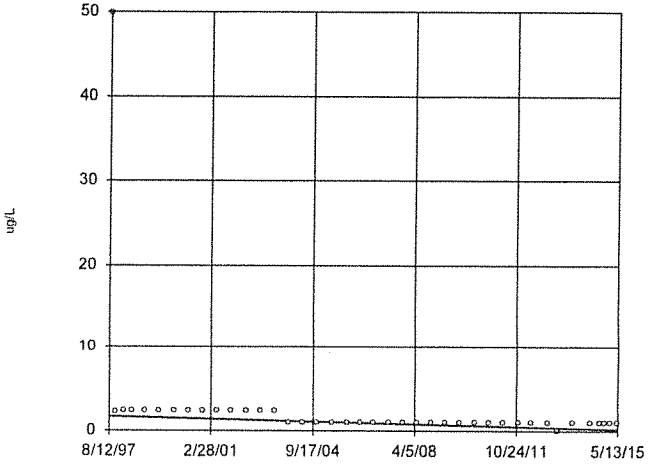
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = -0.08238 units per year.

Mann-Kendall statistic = -378
critical = -201

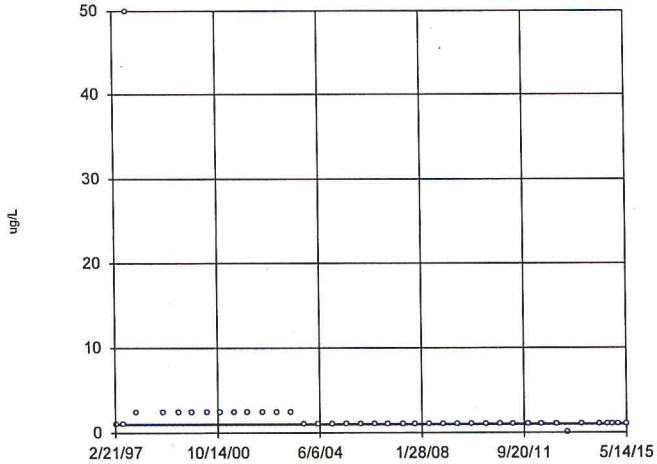
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -314
critical = -201

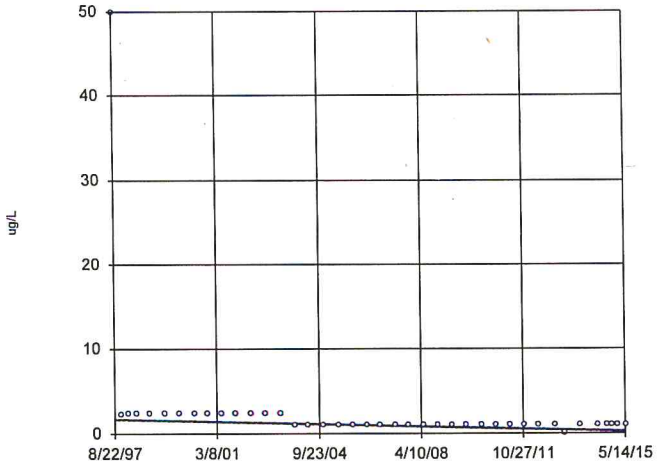
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.08234
units per year.

Mann-Kendall
statistic = -378
critical = -201

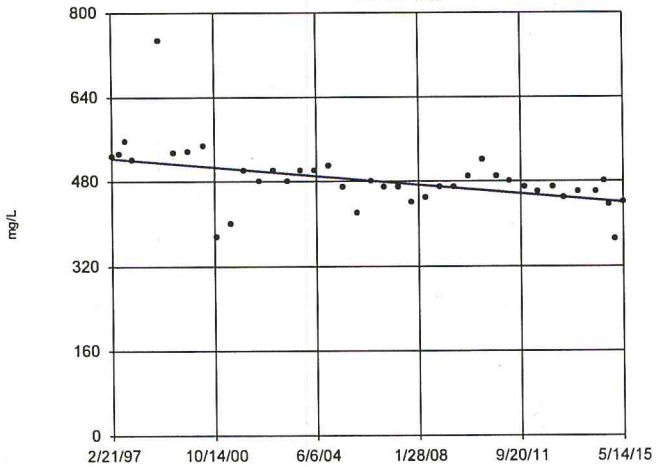
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -4.547
units per year.

Mann-Kendall
statistic = -362
critical = -201

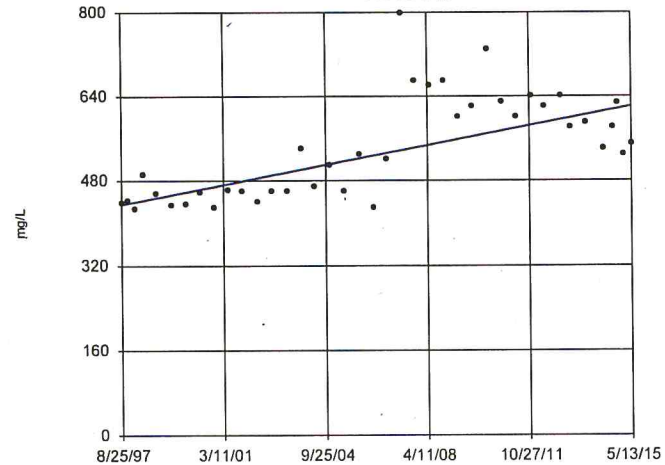
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS (bg)



n = 40

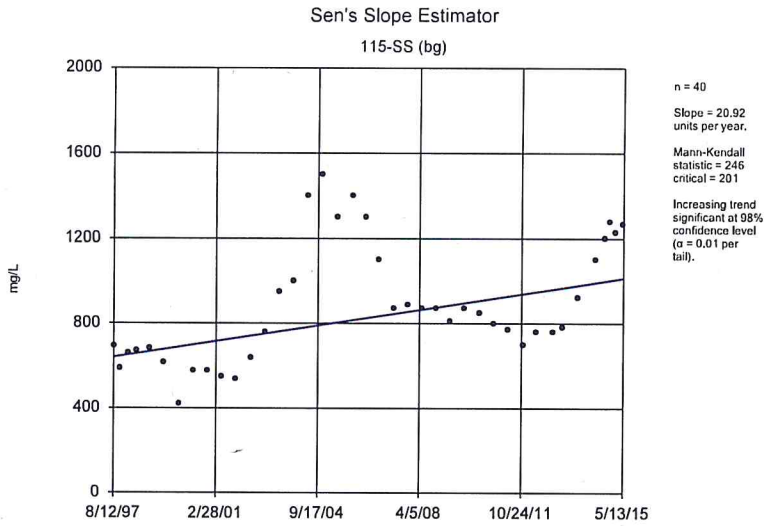
Slope = 10.47
units per year.

Mann-Kendall
statistic = 377
critical = 201

Increasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

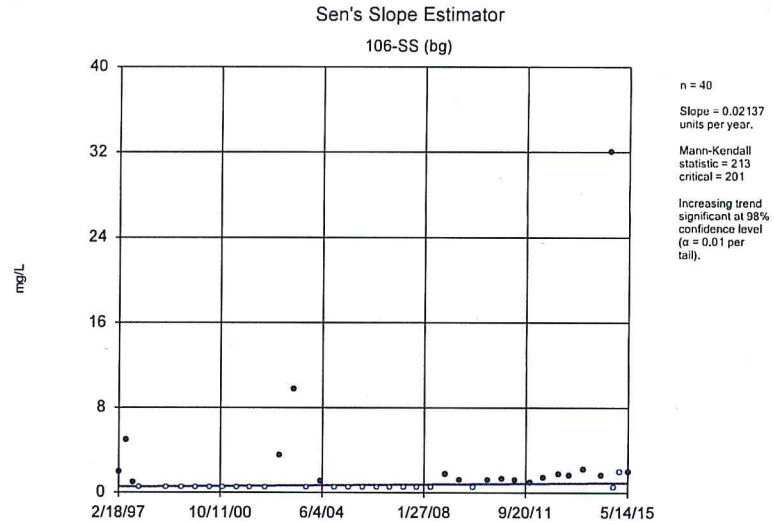
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



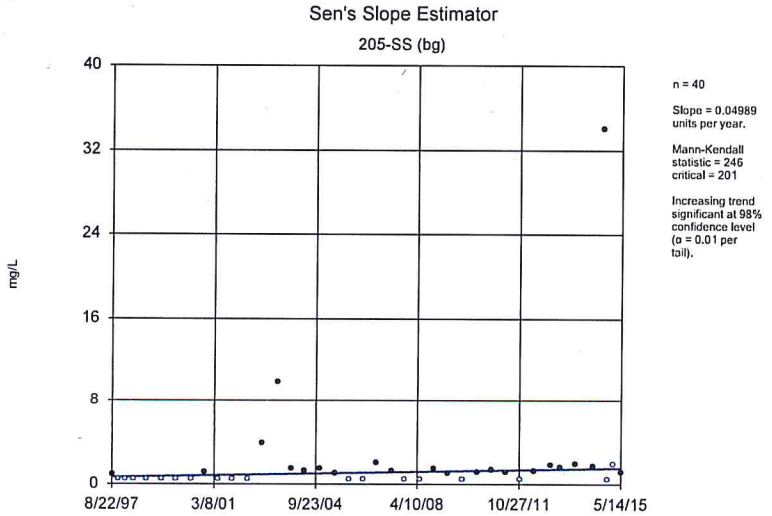
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



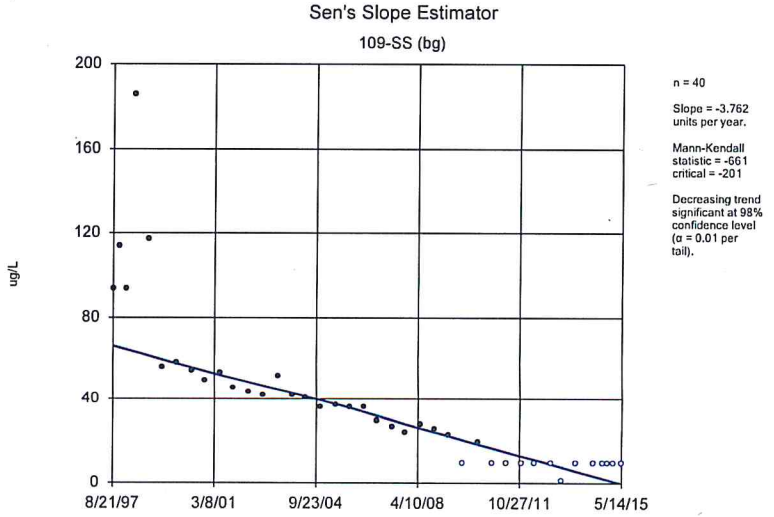
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

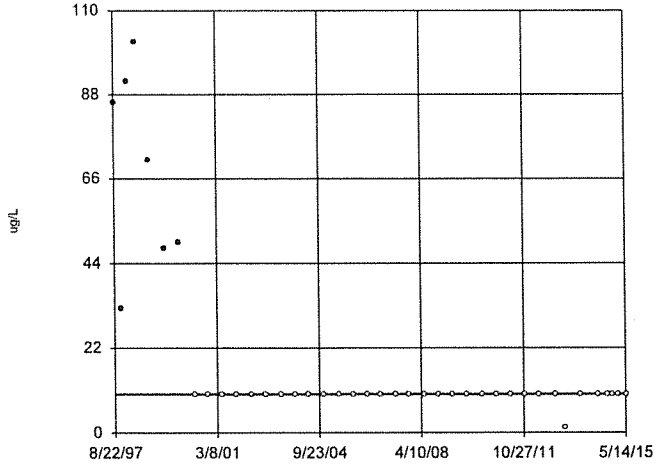


Constituent: Zinc Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -254
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Zinc Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

St. Louis Formation Zone

- Arsenic (Total) at PZ-115-SS (8/97 through 2/15)
- Barium (Total) at PZ-104-SS (2/97 through 9/14)
- Barium (Total) at PZ-105-SS (8/97 through 11/02)
- Barium (Total) at PZ-110-SS (2/97 through 5/07)
- Barium (Total) at PZ-115-SS (8/97 through 10/13)
- Barium (Total) at PZ-205-SS (8/97 through 2/15)
- Boron (Total) at PZ-100-SS (2/97 through 5/12)
- Boron (Total) at PZ-104-SS (2/97 through 5/06)
- Boron (Total) at PZ-115-SS (8/97 through 5/14)
- Calcium (Total) at PZ-105-SS (8/97 through 11/01)
- Calcium (Total) at PZ-106-SS (2/97 through 11/11)
- Calcium (Total) at PZ-110-SS (2/97 through 11/06)
- Calcium (Total) at PZ-115-SS (8/97 through 5/14)
- Calcium (Total) at PZ-201A-SS (2/97 through 5/07)
- Calcium (Total) at PZ-205-SS (8/97 through 11/09)
- Chloride at PZ-104-SS (2/97 through 11/12)
- Chloride at PZ-105-SS (8/97 through 11/99)
- Chloride at PZ-106-SS (2/97 through 11/10)
- Chloride at PZ-110-SS (2/97 through 11/10)
- Chloride at PZ-115-SS (8/97 through 9/14)
- Chloride at PZ-201A-SS (2/97 through 5/08)
- Chloride at PZ-205-SS (8/97 through 5/12)
- Fluoride at PZ-109-SS (8/97 through 9/14)
- Hardness (Total) at PZ-105-SS (8/97 through 5/04)
- Hardness (Total) at PZ-106-SS (2/97 through 11/11)
- Hardness (Total) at PZ-110-SS (2/97 through 11/06)
- Hardness (Total) at PZ-115-SS (8/97 through 10/13)
- Hardness (Total) at PZ-201A-SS (2/97 through 5/07)
- Hardness (Total) at PZ-205-SS (8/97 through 11/07)
- Iron (Total) at PZ-106-SS (2/97 through 5/09)
- Iron (Total) at PZ-115-SS (8/97 through 5/08)
- Magnesium (Total) at PZ-104-SS (2/97 through 5/12)
- Magnesium (Total) at PZ-105-SS (8/97 through 11/01)
- Magnesium (Total) at PZ-106-SS (2/97 through 5/09)
- Magnesium (Total) at PZ-110-SS (2/97 through 5/05)
- Magnesium (Total) at PZ-115-SS (8/97 through 9/14)
- Magnesium (Total) at PZ-201A-SS (2/97 through 11/02)
- Magnesium (Total) at PZ-205-SS (8/97 through 11/04)
- Manganese (Total) at PZ-110-SS (2/97 through 5/03)
- Manganese (Total) at PZ-115-SS (8/97 through 5/02)
- Nickel (Total) at PZ-115-SS (8/97 through 9/14)

- Nitrate + Nitrite as N at PZ-201A-SS (2/97 through 11/09)
- pH (Field) at PZ-104-SS (2/97 through 10/13)
- pH (Field) at PZ-105-SS (8/97 through 5/12)
- pH (Field) at PZ-106-SS (2/97 through 11/11)
- pH (Field) at PZ-110-SS (2/97 through 11/12)
- pH (Field) at PZ-201A-SS (2/97 through 5/11)
- pH (Field) at PZ-205-SS (8/97 through 5/12)
- Phosphorous (Total) at PZ-115-SS (8/97 through 11/11)
- Sodium (Total) at PZ-105-SS (8/97 through 11/10)
- Sodium (Total) at PZ-106-SS (2/97 through 11/09)
- Sodium (Total) at PZ-115-SS (8/97 through 10/13)
- Specific conductance (Field) at PZ-105-SS (8/97 through 5/07)
- Specific conductance (Field) at PZ-110-SS (2/97 through 11/07)
- Specific conductance (Field) at PZ-115-SS (8/97 through 5/14)
- Sulfate at SO_4 at PZ-105-SS (11/97 through 11/00)
- Sulfate at SO_4 at PZ-201A-SS (2/97 through 11/14)
- Total dissolved solids at PZ-105-SS (8/97 through 5/06)
- Total dissolved solids at PZ-115-SS (8/97 through 9/14)
- Total organic carbon at PZ-106-SS (2/97 through 2/15)
- Total organic carbon at PZ-205-SS (8/97 through 4/13)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	100-SS	0.80	n/a	11/10/2016	0.05ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	104-SS	0.47	n/a	11/10/2016	0.05ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	105-SS	0.14	n/a	11/9/2016	0.05ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	106-SS	0.80	n/a	11/8/2016	0.25	No	40	n/a	n/a	67.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	109-SS	0.31	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	110-SS	0.6	n/a	11/8/2016	0.43	No	38	0.2966	0.1164	5.263	None	No	0.00008608	Param Intra 1 of 2
Ammonia as N (mg/L)	**115-SS**	**0.34**	**n/a**	**11/22/2016**	**1.1**	**Yes**	**40**	**n/a**	**n/a**	**67.5**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Ammonia as N (mg/L)	201A-SS	0.32	n/a	11/21/2016	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	205-SS	0.34	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SS	770	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SS	50	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	105-SS	50	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	109-SS	1800	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	110-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	115-SS	50	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	201A-SS	50	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	205-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SS	3000	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SS	11	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	105-SS	3.0	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SS	11	n/a	11/8/2016	6.1	No	40	n/a	n/a	55	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	109-SS	5800	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	110-SS	5.2	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	115-SS	19	n/a	11/22/2016	5.7	No	39	n/a	n/a	56.41	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	201A-SS	6.5	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	205-SS	5.2	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SS	80	n/a	11/10/2016	65.6	No	40	319653	75641	0	None	x^3	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	104-SS	110	n/a	11/10/2016	100	No	36	8075	1743	0	None	x^2	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	105-SS	190	n/a	11/9/2016	178	No	13	4.594	0.3338	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	106-SS	170	n/a	11/8/2016	166	No	39	5.223	0.1277	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	109-SS	76	n/a	11/8/2016	56.7	No	40	4156	605.3	0	None	x^2	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	110-SS	280	n/a	11/8/2016	242	No	22	42528	13153	0	None	x^2	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	115-SS	600	n/a	11/22/2016	48.1	No	35	228	139.9	0	None	No	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	201A-SS	150	n/a	11/21/2016	78.2	No	39	111.8	14.77	0	None	No	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	205-SS	180	n/a	11/8/2016	135	No	39	n/a	n/a	0	n/a	n/a	0.001219	NP Intra (normality) 1 of 2
Beryllium Total (ug/L)	100-SS	1.0	n/a	11/10/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SS	1.0	n/a	11/10/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	105-SS	1.0	n/a	11/9/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SS	1.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	109-SS	1.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	110-SS	1.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	115-SS	1.0	n/a	11/22/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	201A-SS	1.0	n/a	11/21/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	205-SS	1.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	100-SS	140	n/a	11/10/2016	118	No	32	1.7e8	9.7e7	12.5	None	x^4	0.00008608	Param Intra 1 of 2
Boron Total (ug/L)	104-SS	160	n/a	11/10/2016	137	No	20	n/a	n/a	40	n/a	n/a	0.004219	NP Intra (normality) 1 of 2
Boron Total (ug/L)	105-SS	50	n/a	11/9/2016	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SS	50	n/a	11/8/2016	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	109-SS	330	n/a	11/8/2016	186	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron Total (ug/L)	110-SS	320	n/a	11/8/2016	217	No	38	5.529	0.09624	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Boron Total (ug/L)	115-SS	1000	n/a	11/22/2016	103	No	36	n/a	n/a	30.56	n/a	n/a	0.00142	NP Intra (normality) 1 of 2
Boron Total (ug/L)	**201A-SS**	**50**	**n/a**	**11/21/2016**	**267**	**Yes**	**40**	**n/a**	**n/a**	**100**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Boron Total (ug/L)	205-SS	280	n/a	11/8/2016	50ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SS	2.5	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SS	2.5	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	105-SS	2.5	n/a	11/9/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SS	2.5	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	109-SS	4.6	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	110-SS	2.5	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	115-SS	2.5	n/a	11/22/2016	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	201A-SS	2.5	n/a	11/21/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	205-SS	5.8	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	100-SS	110000	n/a	11/10/2016	93700	No	39	11.46	0.04697	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	104-SS	97000	n/a	11/10/2016	82300	No	40	6.8e9	1.0e9	0	None	x^2	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	**105-SS**	**87000**	**n/a**	**11/9/2016**	**102000**	**Yes**	**11**	**11.08**	**0.07786**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Calcium Total (ug/L)	106-SS	110000	n/a	11/8/2016	99100	No	29	11.46	0.06699	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	109-SS	96000	n/a	11/8/2016	85600	No	39	4.0e29	1.4e29	0	None	x^6	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	110-SS	260000	n/a	11/8/2016	194000	No	20	8.6e15	2.9e15	0	None	x^3	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	115-SS	350000	n/a	11/22/2016	65600	No	36	11.89	0.3286	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	201A-SS	100000	n/a	11/21/2016	69400	No	22	85186	6232	0	None	No	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	205-SS	100000	n/a	11/8/2016	94900	No	27	n/a	n/a	0	n/a	n/a	0.002475	NP Intra (normality) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SS	21	n/a	11/10/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SS	96	n/a	11/10/2016	26.2	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	105-SS	42	n/a	11/9/2016	10.2	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SS	66	n/a	11/8/2016	21.6	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	109-SS	18	n/a	11/8/2016	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	110-SS	110	n/a	11/8/2016	45.7	No	40	6.76	1.404	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	115-SS	180	n/a	11/22/2016	33.5	No	40	n/a	n/a	30	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	201A-SS	27	n/a	11/21/2016	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	205-SS	52	n/a	11/8/2016	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	100-SS	12	n/a	11/10/2016	6.1	No	40	1.706	0.3034	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	104-SS	5.0	n/a	11/10/2016	3.8	No	33	n/a	n/a	48.48	n/a	n/a	0.001688	NP Intra (normality) 1 of 2
Chloride (mg/L)	**105-SS**	**26**	**n/a**	**11/9/2016**	**64.8**	**Yes**	**7**	**2.586**	**0.1213**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Chloride (mg/L)	**106-SS**	**17**	**n/a**	**11/8/2016**	**39.3**	**Yes**	**29**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002152**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	109-SS	17	n/a	11/8/2016	3.7	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chloride (mg/L)	110-SS	280	n/a	11/8/2016	177	No	28	176	36.15	0	None	No	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	115-SS	680	n/a	11/22/2016	445	No	37	13.59	4.687	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	201A-SS	4.0	n/a	11/21/2016	3.6	No	24	n/a	n/a	50	n/a	n/a	0.003083	NP Intra (normality) 1 of 2
Chloride (mg/L)	205-SS	50	n/a	11/8/2016	32.3	No	32	2.998	0.2584	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Chromium Total (ug/L)	100-SS	21	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	104-SS	6.6	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	105-SS	6.4	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	106-SS	8.0	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	109-SS	14	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	110-SS	38	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	115-SS	5.5	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	201A-SS	7.5	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	205-SS	52	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SS	10	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt Total (ug/L)	104-SS	10	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	105-SS	10	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SS	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	109-SS	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	110-SS	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	115-SS	62	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Cobalt Total (ug/L)	201A-SS	10	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	205-SS	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SS	20	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SS	10	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	105-SS	10	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	106-SS	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	109-SS	31	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	110-SS	41	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	115-SS	21	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	201A-SS	10	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	205-SS	46	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	100-SS	0.94	n/a	11/10/2016	0.65	No	25	0.3625	0.1685	0	None	x^3	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	104-SS	0.97	n/a	11/10/2016	0.73	No	24	0.4327	0.1674	0	None	x^3	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	105-SS	1.1	n/a	11/9/2016	0.51	No	26	0.6903	0.1403	0	None	No	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	106-SS	2.5	n/a	11/8/2016	1.9	No	26	0.6576	0.08543	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	109-SS	2.6	n/a	11/8/2016	2.4	No	23	4.319	0.8498	0	None	x^2	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	110-SS	1.5	n/a	11/8/2016	0.27	No	26	-0.8833	0.4611	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	115-SS	2.7	n/a	11/22/2016	0.1	No	26	0.9509	0.1594	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	201A-SS	0.65	n/a	11/21/2016	0.34	No	25	0.4567	0.06897	0	None	No	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	205-SS	0.6	n/a	11/8/2016	0.38	No	25	-0.909	0.1421	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	100-SS	510	n/a	11/10/2016	444	No	39	2.0e13	5.2e12	0	None	x^5	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	104-SS	460	n/a	11/10/2016	405	No	39	2.7e10	7.1e9	0	None	x^4	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	105-SS	510	n/a	11/9/2016	488	No	15	5.79	0.1385	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	106-SS	510	n/a	11/8/2016	459	No	29	20.59	0.6924	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	109-SS	740	n/a	11/8/2016	426	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Hardness Total (mg/L)	110-SS	1000	n/a	11/8/2016	819	No	19	6.2e8	1.8e8	0	None	x^3	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	115-SS	1600	n/a	11/22/2016	324	No	35	6.483	0.3251	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	201A-SS	500	n/a	11/21/2016	369	No	21	19.72	0.9201	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	205-SS	520	n/a	11/8/2016	466	No	23	8.0e15	3.9e15	0	None	x^6	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	100-SS	2000	n/a	11/10/2016	25ND	No	40	n/a	n/a	25	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	104-SS	8600	n/a	11/10/2016	146	No	40	10.96	3.646	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	105-SS	13000	n/a	11/9/2016	4010	No	40	7.052	0.9184	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	**106-SS**	**1400**	**n/a**	**11/8/2016**	**2520**	**Yes**	**26**	**5.605**	**0.5835**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Iron Total (ug/L)	109-SS	5400	n/a	11/8/2016	25ND	No	40	5.028	1.361	5	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	110-SS	10000	n/a	11/8/2016	5490	No	39	4.9e7	2.0e7	0	None	x^2	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	115-SS	7200	n/a	11/22/2016	921	No	24	n/a	n/a	0	n/a	n/a	0.003083	NP Intra (normality) 1 of 2
Iron Total (ug/L)	201A-SS	5800	n/a	11/21/2016	450	No	40	5.9	1.058	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	205-SS	5400	n/a	11/8/2016	207	No	40	6.53	0.7894	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Lead Total (ug/L)	100-SS	2700	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	104-SS	25	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	105-SS	25	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SS	25	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	109-SS	3400	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	110-SS	25	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead Total (ug/L)	115-SS	25	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	201A-SS	25	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	205-SS	89	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SS	60000	n/a	11/10/2016	51000	No	40	1.5e14	2.5e13	0	None	x^3	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	104-SS	55000	n/a	11/10/2016	48300	No	32	1.1e14	2.3e13	0	None	x^3	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	**105-SS**	**47000**	**n/a**	**11/9/2016**	**57000**	**Yes**	**11**	**10.46**	**0.07764**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	106-SS	54000	n/a	11/8/2016	51400	No	25	10.69	0.07281	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	109-SS	57000	n/a	11/8/2016	51600	No	39	2.0e28	5.9e27	0	None	x^6	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	110-SS	100000	n/a	11/8/2016	81200	No	17	11.28	0.07957	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	115-SS	140000	n/a	11/22/2016	38800	No	37	11.23	0.2383	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	201A-SS	51000	n/a	11/21/2016	47500	No	13	10.57	0.08112	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	205-SS	64000	n/a	11/8/2016	55700	No	17	224	9.563	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	100-SS	75	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	57.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Manganese Total (ug/L)	104-SS	100	n/a	11/10/2016	23.6	No	39	5.486	1.746	2.564	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	**105-SS**	**68**	**n/a**	**11/9/2016**	**119**	**Yes**	**39**	**2.59**	**0.5683**	**2.564**	**None**	**x^(1/3)**	**0.00008608**	**Param Intra 1 of 2**
Manganese Total (ug/L)	106-SS	52	n/a	11/8/2016	15.2	No	38	4.249	1.13	2.632	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	109-SS	120	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Manganese Total (ug/L)	110-SS	230	n/a	11/8/2016	157	No	10	30012	5451	0	None	x^2	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	**115-SS**	**19**	**n/a**	**11/22/2016**	**128**	**Yes**	**11**	**8.983**	**2.739**	**9.091**	**None**	**No**	**0.00008608**	**Param Intra 1 of 2**
Manganese Total (ug/L)	201A-SS	1100	n/a	11/21/2016	58.4	No	40	4.69	0.8887	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	205-SS	100	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	30	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	100-SS	0.10	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	104-SS	0.30	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	105-SS	0.10	n/a	11/9/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SS	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	109-SS	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	110-SS	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	115-SS	0.10	n/a	11/22/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	201A-SS	0.35	n/a	11/21/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	205-SS	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SS	56	n/a	11/10/2016	11.5	No	40	2.743	0.491	10	None	ln(x)	0.00008608	Param Intra 1 of 2
Nickel Total (ug/L)	104-SS	23	n/a	11/10/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	105-SS	20	n/a	11/9/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	106-SS	20	n/a	11/8/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	109-SS	20	n/a	11/8/2016	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	110-SS	55	n/a	11/8/2016	11.4	No	40	n/a	n/a	25	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Nickel Total (ug/L)	115-SS	140	n/a	11/22/2016	5ND	No	37	n/a	n/a	32.43	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Nickel Total (ug/L)	201A-SS	20	n/a	11/21/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	205-SS	32	n/a	11/8/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SS	0.27	n/a	11/10/2016	0.12	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SS	0.39	n/a	11/10/2016	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	105-SS	0.12	n/a	11/9/2016	0.05ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SS	0.54	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	109-SS	0.50	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	110-SS	5.0	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	115-SS	5.0	n/a	11/22/2016	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	201A-SS	0.33	n/a	11/21/2016	0.3	No	27	n/a	n/a	66.67	n/a	n/a	0.002475	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	205-SS	0.15	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SS	8.0	6.6	11/10/2016	7.08	No	40	n/a	n/a	0	n/a	n/a	0.002305	NP Intra (normality) 1 of 2
pH [Field] (su)	104-SS	8.5	6.2	11/10/2016	6.59	No	35	1.983	0.05825	0	None	ln(x)	0.00004304	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH [Field] (su)	105-SS	8.3	6.7	11/9/2016	7.02	No	32	2.012	0.04035	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	106-SS	8.3	6.3	11/8/2016	6.95	No	31	1.98	0.05226	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	109-SS	8	6.5	11/8/2016	7.1	No	39	1.973	0.04155	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	110-SS	7.7	6	11/8/2016	6.7	No	33	1.914	0.04822	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	115-SS	7.6	6	11/22/2016	6.67	No	39	1.911	0.04272	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	201A-SS	8.5	6.4	11/21/2016	7.17	No	30	1.993	0.05282	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	205-SS	7.9	6.5	11/8/2016	7.01	No	32	1.969	0.03712	0	None	ln(x)	0.00004304	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SS	0.21	n/a	11/10/2016	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	104-SS	0.46	n/a	11/10/2016	0.025ND	No	40	n/a	n/a	60	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	105-SS	0.22	n/a	11/9/2016	0.025ND	No	40	n/a	n/a	50	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Phosphorus Total (mg/L)	106-SS	0.38	n/a	11/8/2016	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	109-SS	0.25	n/a	11/8/2016	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	110-SS	0.47	n/a	11/8/2016	0.15	No	39	-1.798	0.3985	2.564	None	ln(x)	0.00008608	Param Intra 1 of 2
Phosphorus Total (mg/L)	115-SS	0.45	n/a	11/22/2016	0.24	No	31	0.2985	0.1361	12.9	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Phosphorus Total (mg/L)	201A-SS	0.37	n/a	11/21/2016	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	205-SS	0.11	n/a	11/8/2016	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	100-SS	50	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SS	50	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	105-SS	50	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	109-SS	39	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	110-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	115-SS	50	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	201A-SS	50	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	205-SS	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	100-SS	5.0	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SS	5.0	n/a	11/10/2016	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	105-SS	5.0	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SS	5.0	n/a	11/8/2016	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	109-SS	5.0	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	110-SS	5.0	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	115-SS	5.9	n/a	11/22/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	201A-SS	5.0	n/a	11/21/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	205-SS	5.0	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SS	39000	n/a	11/10/2016	11100	No	40	9.808	0.295	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	104-SS	27000	n/a	11/10/2016	14600	No	39	9.617	0.2257	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	105-SS	80000	n/a	11/9/2016	39900	No	29	10.89	0.1457	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	**106-SS**	**17000**	**n/a**	**11/8/2016**	**23200**	**Yes**	**26**	**1.7e8**	**4.0e7**	**0**	**None**	**x^2**	**0.00008608**	**Param Intra 1 of 2**
Sodium Total (ug/L)	109-SS	49000	n/a	11/8/2016	9840	No	39	9.978	0.3165	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	110-SS	120000	n/a	11/8/2016	72400	No	39	83210	14554	0	None	No	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	115-SS	460000	n/a	11/22/2016	59300	No	35	10.78	0.8461	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	201A-SS	66000	n/a	11/21/2016	10900	No	40	30.24	3.85	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	205-SS	56000	n/a	11/8/2016	15000	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SS	1000	n/a	11/10/2016	821	No	39	6.746	0.06655	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SS	930	n/a	11/10/2016	797	No	39	4.6e8	1.3e8	0	None	x^3	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	105-SS	1100	n/a	11/9/2016	1081	No	22	813.5	87.59	0	None	No	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**106-SS**	**950**	**n/a**	**11/8/2016**	**973**	**Yes**	**39**	**4.6e11**	**1.3e11**	**0**	**None**	**x^4**	**0.00008608**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	109-SS	990	n/a	11/8/2016	822	No	37	824	63.94	0	None	No	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	110-SS	2200	n/a	11/8/2016	1901	No	23	1.9e16	1.0e16	0	None	x^5	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	115-SS	3500	n/a	11/22/2016	2500	No	36	7.284	0.335	0	None	ln(x)	0.00008608	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Specific Conductance [Field] (umhos/cm)	201A-SS	970	n/a	11/21/2016	753	No	39	660296	108124	0	None	x^2	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	11/8/2016	921	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	100-SS	92	n/a	11/10/2016	36.9	No	40	4.009	0.1952	2.5	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	104-SS	45	n/a	11/10/2016	13.2	No	40	21.19	9.203	2.5	None	No	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	**105-SS**	**47**	**n/a**	**11/9/2016**	**48.7**	**Yes**	**8**	**40346**	**14371**	**0**	**None**	**x^3**	**0.00008608**	**Param Intra 1 of 2**
Sulfate (mg/L)	106-SS	66	n/a	11/8/2016	46.4	No	40	3.901	0.1104	2.5	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	109-SS	89	n/a	11/8/2016	24.1	No	40	3.71	0.2988	2.5	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	110-SS	100	n/a	11/8/2016	62.5	No	40	5251	1909	0	None	x^2	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	115-SS	71	n/a	11/22/2016	2.8	No	40	4.715	1.41	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	201A-SS	86	n/a	11/21/2016	60.3	No	37	4.083	0.141	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	205-SS	73	n/a	11/8/2016	51.8	No	39	50.72	8.593	0	None	No	0.00008608	Param Intra 1 of 2
Thallium Total (ug/L)	100-SS	50	n/a	11/10/2016	1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SS	50	n/a	11/10/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	105-SS	50	n/a	11/9/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SS	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	109-SS	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	110-SS	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	115-SS	50	n/a	11/22/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	201A-SS	50	n/a	11/21/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	205-SS	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SS	570	n/a	11/10/2016	501	No	39	1.1e8	2.8e7	0	None	x^3	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	11/10/2016	410	No	38	6.039	0.07516	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**105-SS**	**540**	**n/a**	**11/9/2016**	**585**	**Yes**	**20**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004219**	**NP Intra (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	106-SS	540	n/a	11/8/2016	524	No	39	21.4	0.6626	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	109-SS	570	n/a	11/8/2016	430	No	40	6.134	0.07956	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	110-SS	1400	n/a	11/8/2016	1110	No	40	1135	116.3	0	None	No	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	115-SS	1800	n/a	11/22/2016	1390	No	37	6.71	0.3007	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	201A-SS	560	n/a	11/21/2016	427	No	39	226671	33845	0	None	x^2	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	205-SS	580	n/a	11/8/2016	502	No	39	6.217	0.05445	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SS	31	n/a	11/10/2016	0.5ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	104-SS	28	n/a	11/10/2016	6.3	No	40	n/a	n/a	47.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	105-SS	29	n/a	11/9/2016	1.9	No	40	n/a	n/a	17.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SS	32	n/a	11/8/2016	2ND	No	39	n/a	n/a	53.85	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	109-SS	31	n/a	11/8/2016	0.5ND	No	40	n/a	n/a	52.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	110-SS	31	n/a	11/8/2016	12.1	No	39	3.564	0.7759	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	115-SS	56	n/a	11/22/2016	10.9	No	40	1.813	0.7701	22.5	Kaplan-Meier	x^(1/3)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	201A-SS	33	n/a	11/21/2016	0.5ND	No	40	n/a	n/a	50	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	205-SS	10	n/a	11/8/2016	0.5ND	No	34	n/a	n/a	47.06	n/a	n/a	0.001587	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SS	5.0	n/a	11/10/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SS	5.0	n/a	11/10/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	105-SS	5.0	n/a	11/9/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SS	5.0	n/a	11/8/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	109-SS	5.0	n/a	11/8/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	110-SS	10	n/a	11/8/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	115-SS	14	n/a	11/22/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	201A-SS	5.0	n/a	11/21/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	205-SS	110	n/a	11/8/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SS	230	n/a	n/a	1 future	n/a	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	104-SS	220	n/a	n/a	1 future	n/a	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	105-SS	43	n/a	n/a	1 future	n/a	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 8:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Zinc Total (ug/L)	106-SS	40	n/a	n/a	1 future	n/a	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	109-SS	190	n/a	n/a	1 future	n/a	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Zinc Total (ug/L)	110-SS	87	n/a	n/a	1 future	n/a	40	n/a	n/a	77.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	115-SS	68	n/a	n/a	1 future	n/a	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	201A-SS	180	n/a	n/a	1 future	n/a	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	205-SS	100	n/a	n/a	1 future	n/a	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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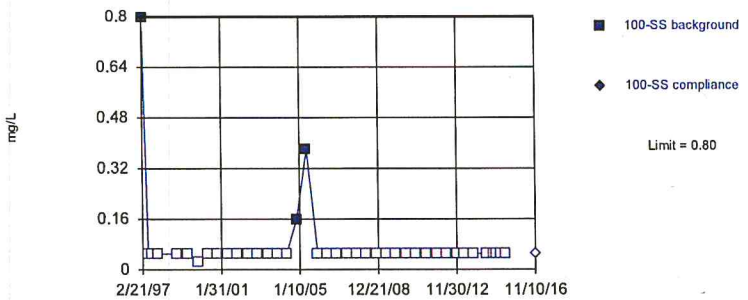
Hollow symbols indicate censored values.

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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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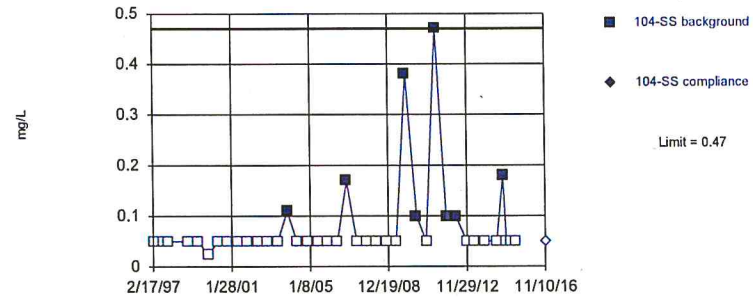
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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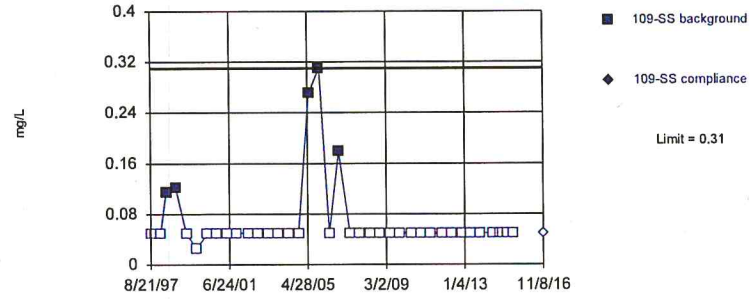
Hollow symbols indicate censored values.

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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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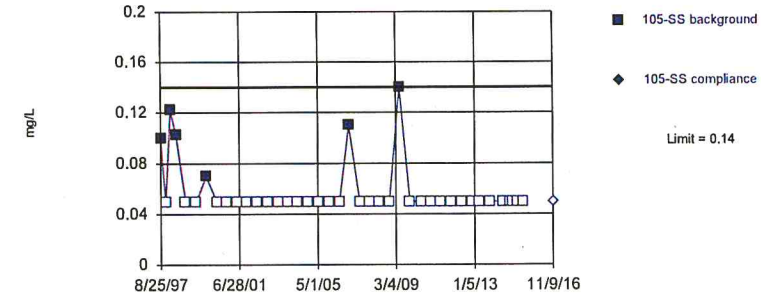
Hollow symbols indicate censored values.

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 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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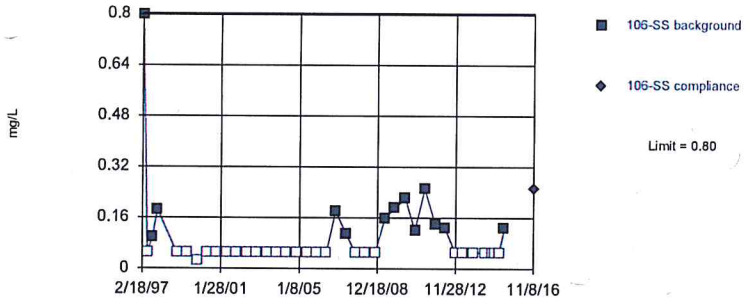
Hollow symbols indicate censored values.

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 40 background values. 67.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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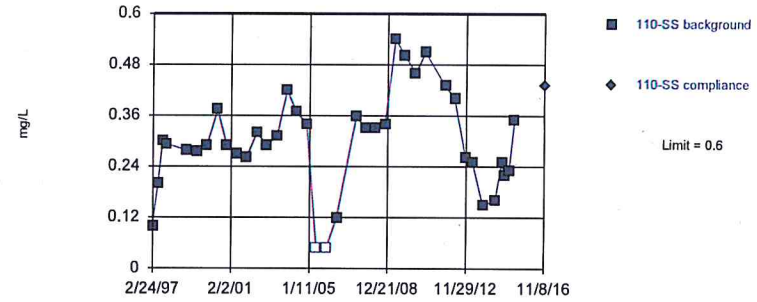
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2966, Std. Dev.=0.1164, n=38, 5.263% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9725, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 0.77 (11/9/2006); 1.8 (5/10/2011).

Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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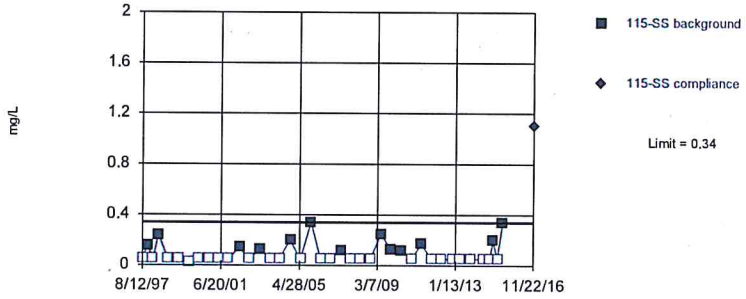
Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 67.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

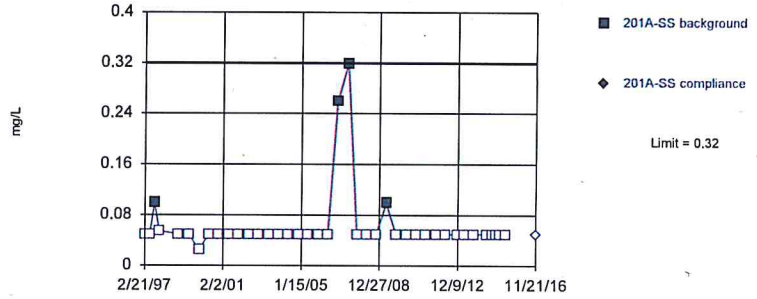
Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

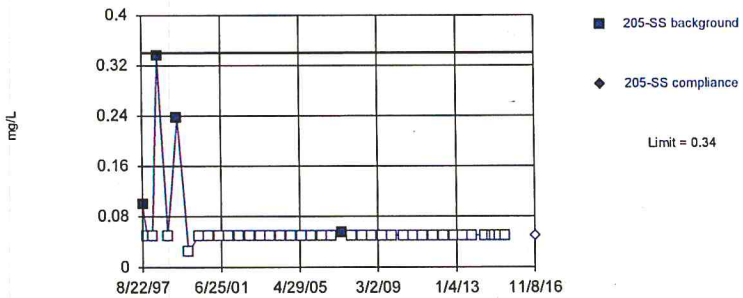
Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

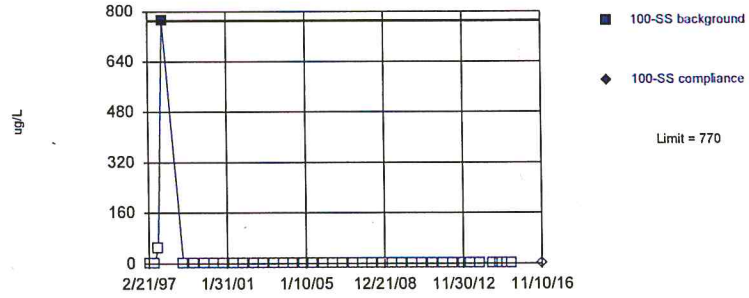
Constituent: Ammonia as N Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

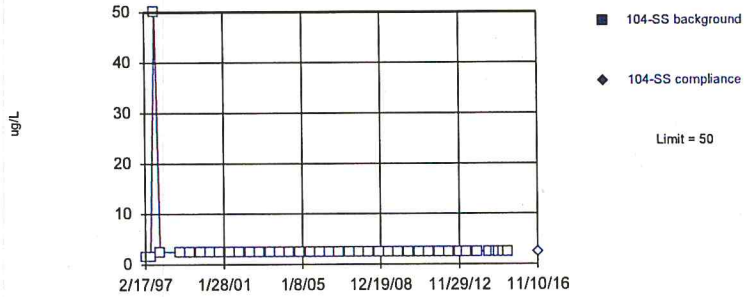
Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

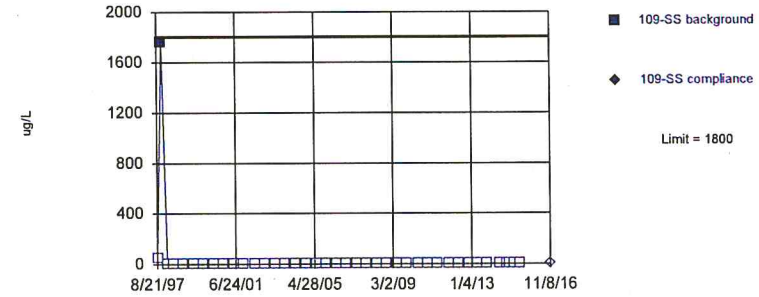
Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

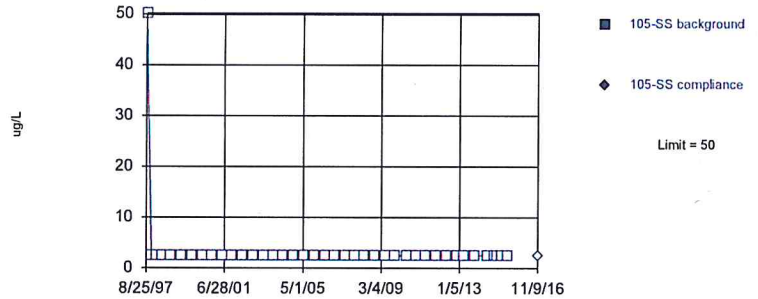
Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM

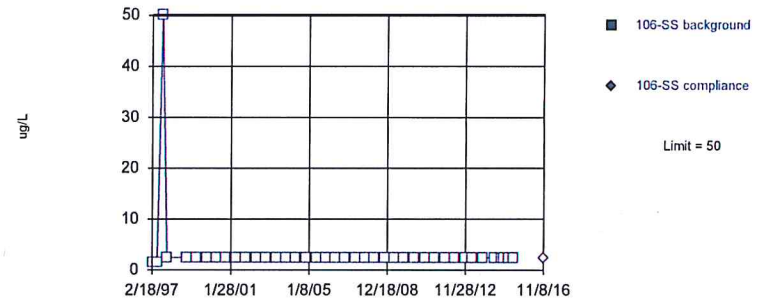
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM

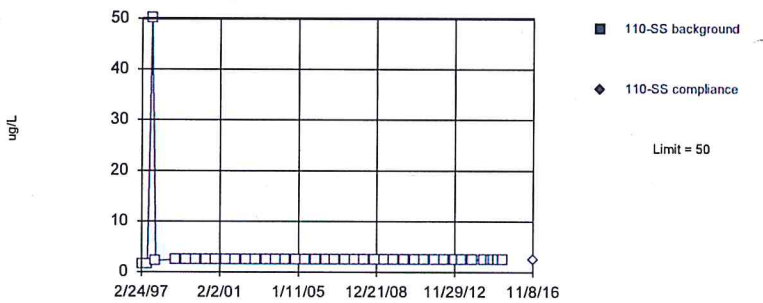
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM

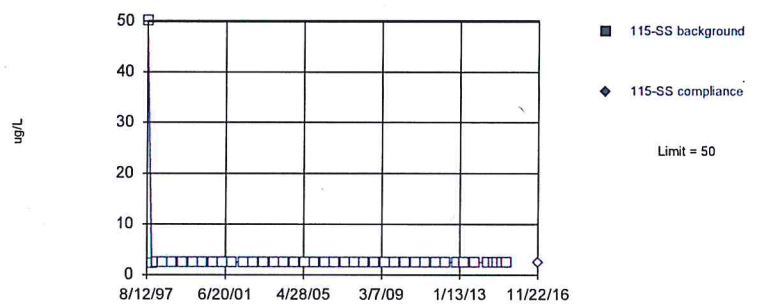
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM

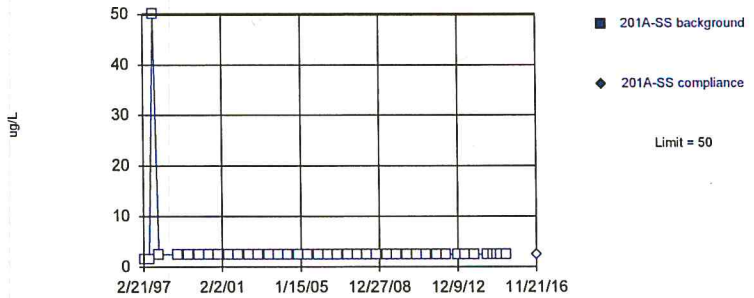
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

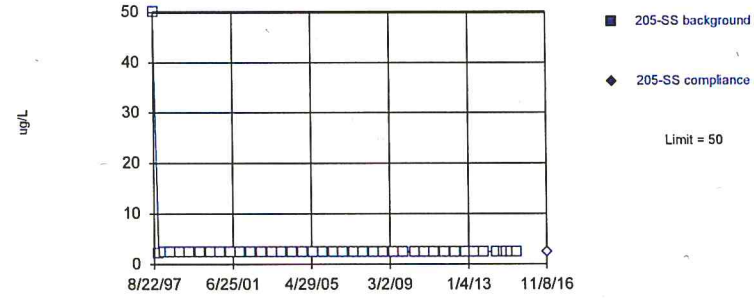
Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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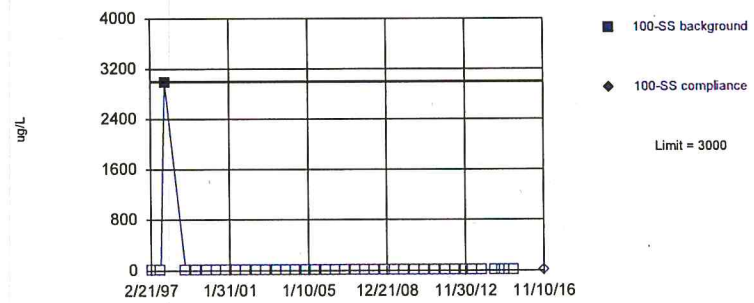
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

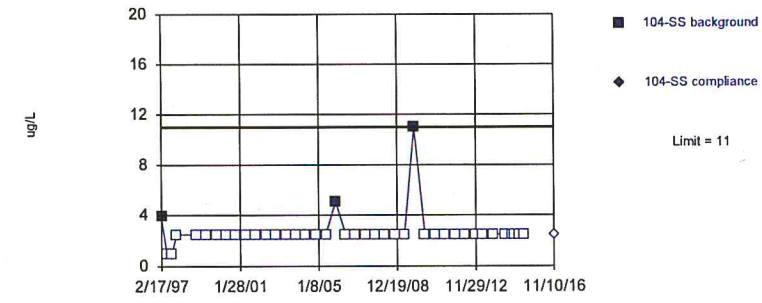
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

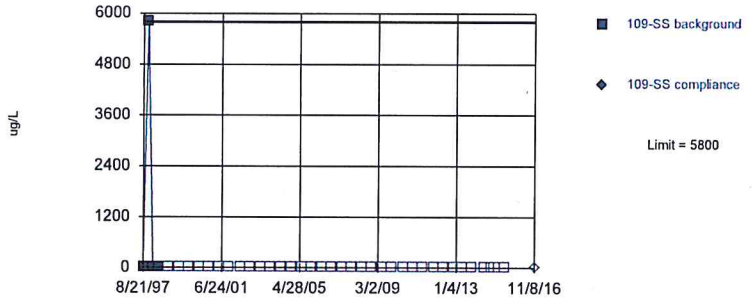
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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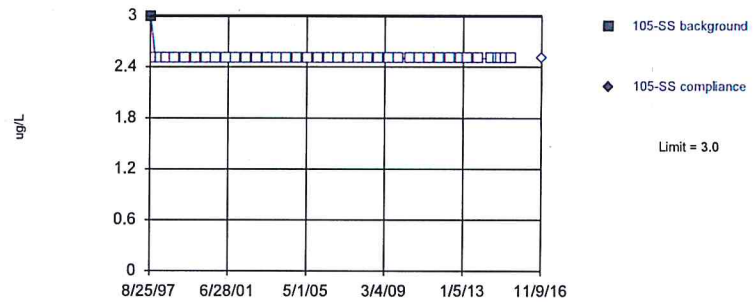
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

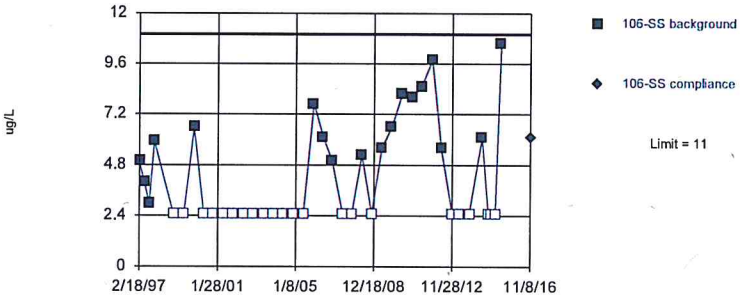
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

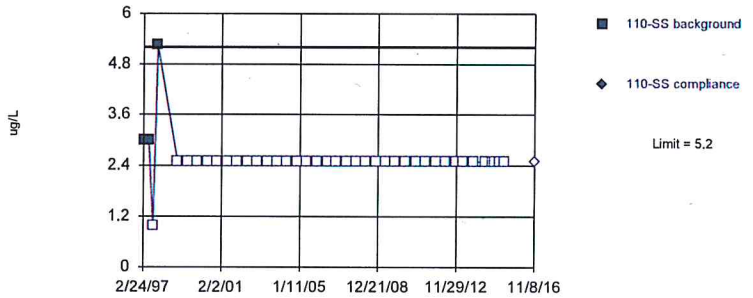
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

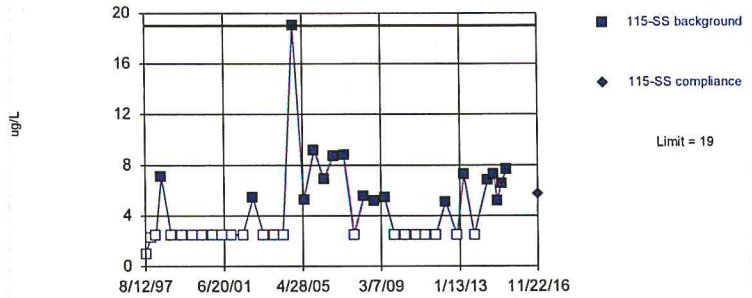
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

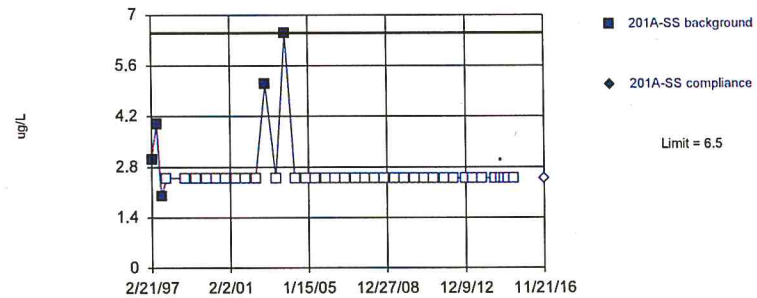
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

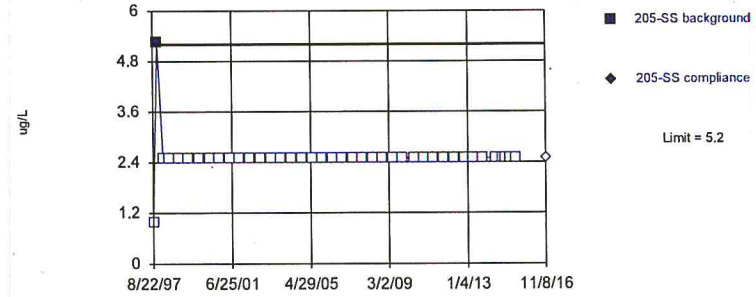
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

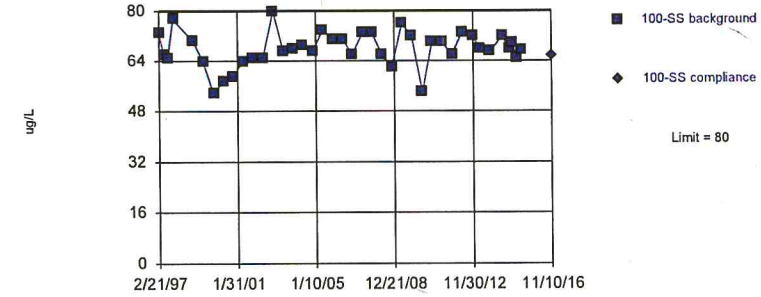
Constituent: Arsenic Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=319653, Std. Dev.=75641, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9781, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

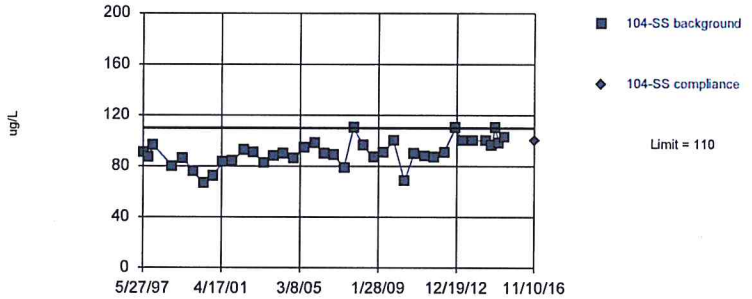
Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8286, Std. Dev.=1849, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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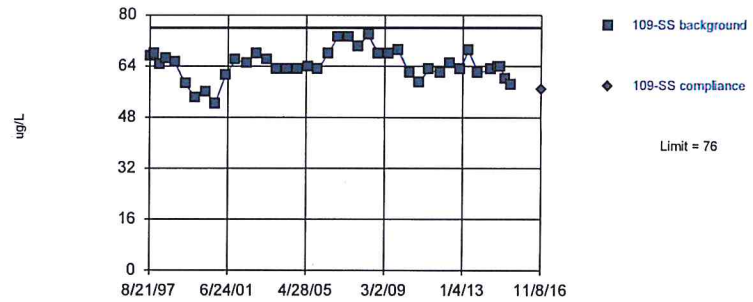
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4156, Std. Dev.=605.3, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9757, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

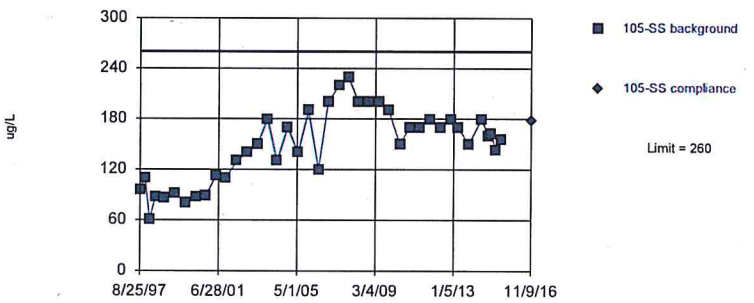
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=148.5, Std. Dev.=42.94, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

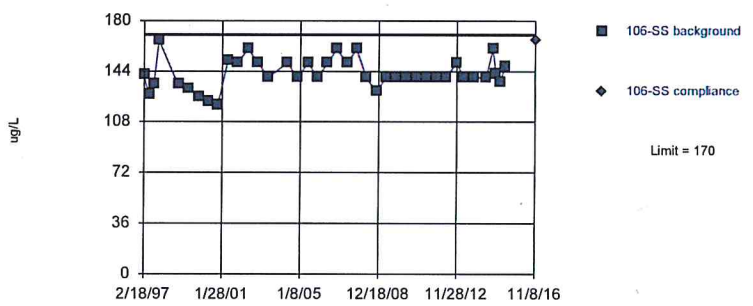
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.223, Std. Dev.=0.1277, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9465, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 78 (11/20/2003).

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

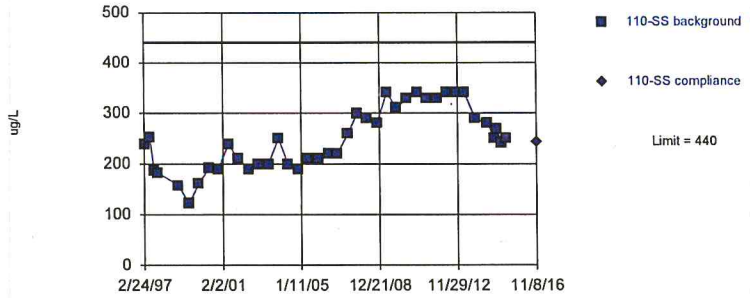
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=6.244, Std. Dev.=0.5182, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9456, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

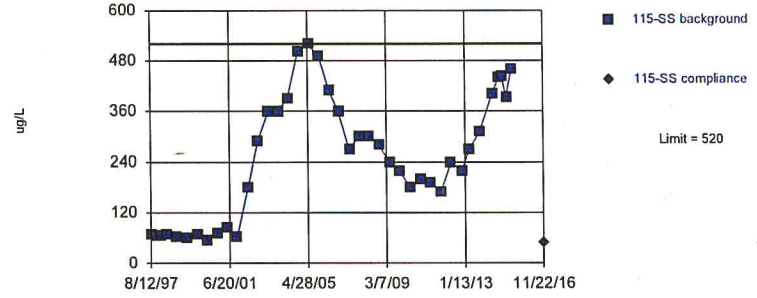
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

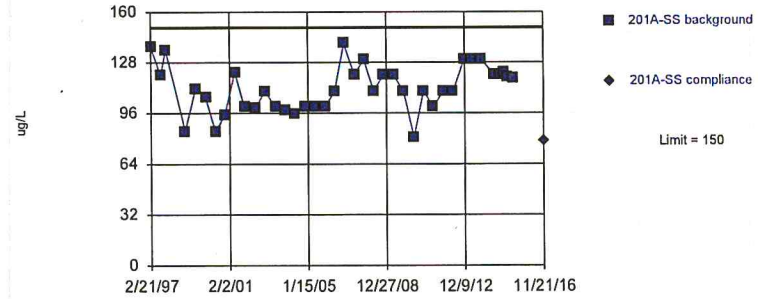
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=111.8, Std. Dev.=14.77, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9618, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 206 (5/27/1997).

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

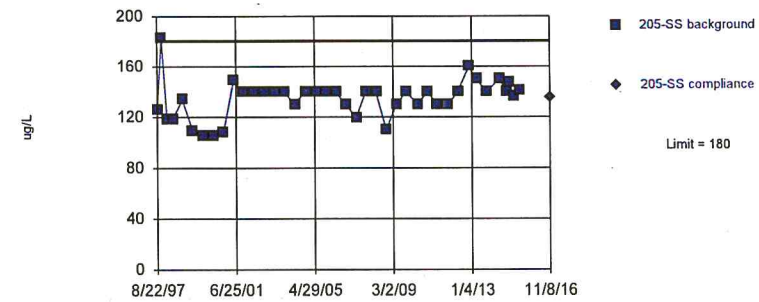
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 1/3/2017 8:12 AM

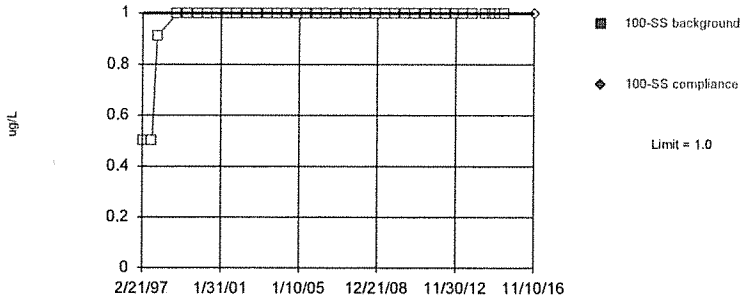
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

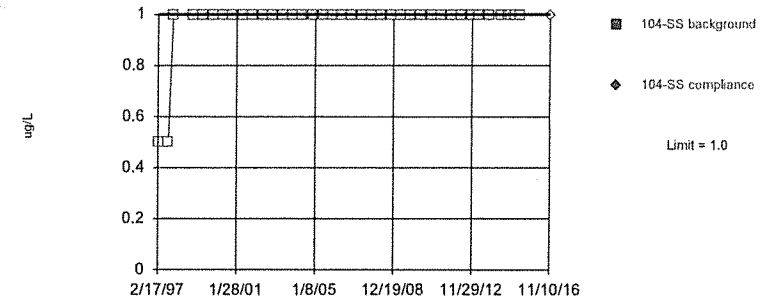
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

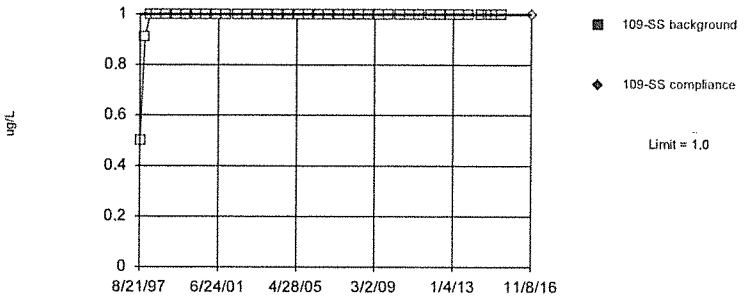
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

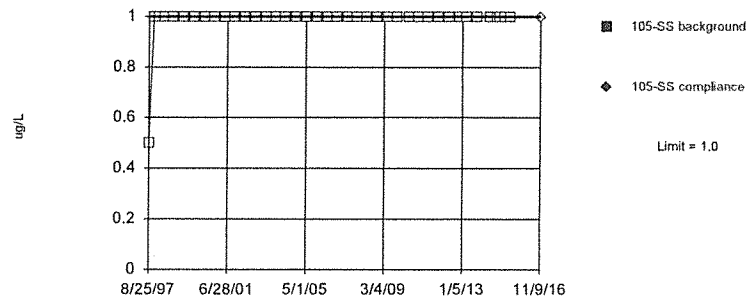
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

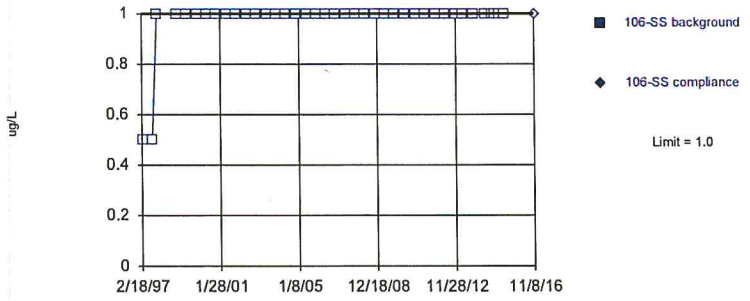
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

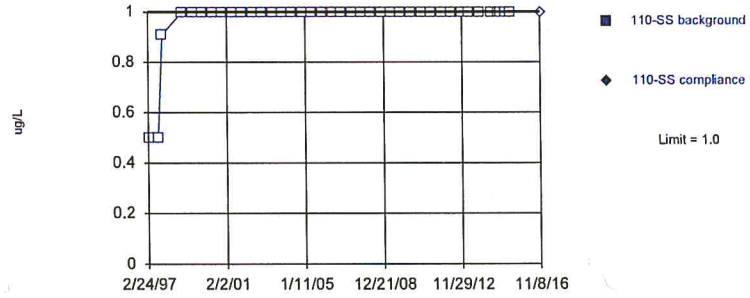
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

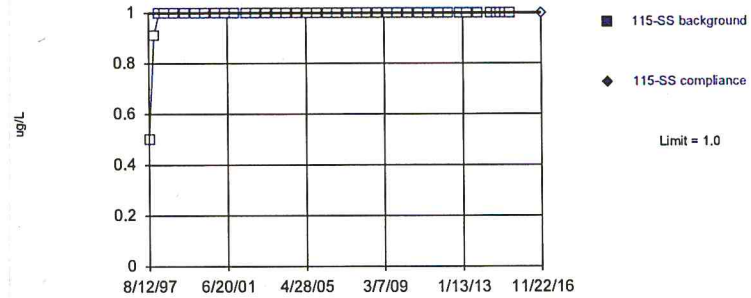
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

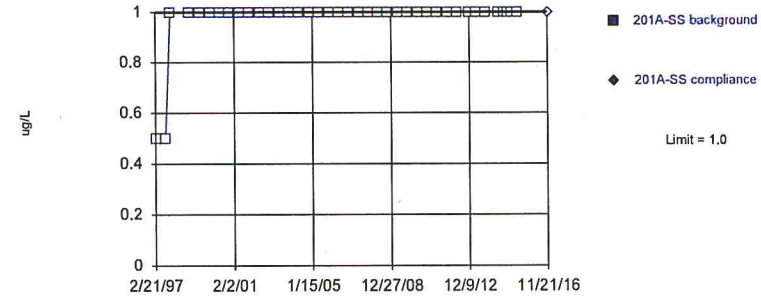
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

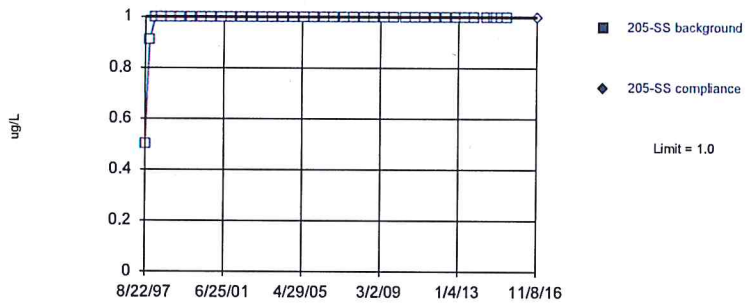
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

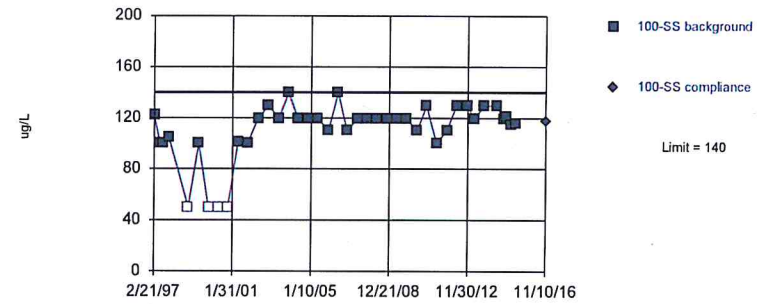
Constituent: Beryllium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=1.8e8, Std. Dev.=9.2e7, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9305, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

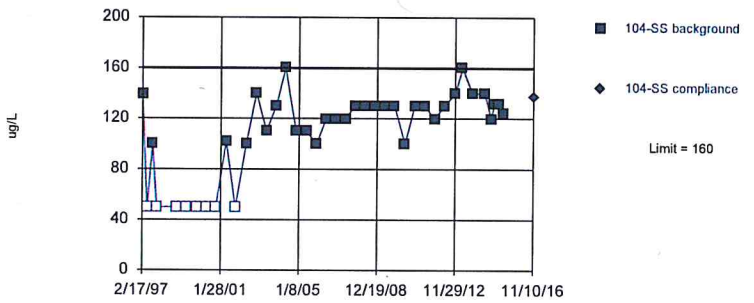
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 20% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

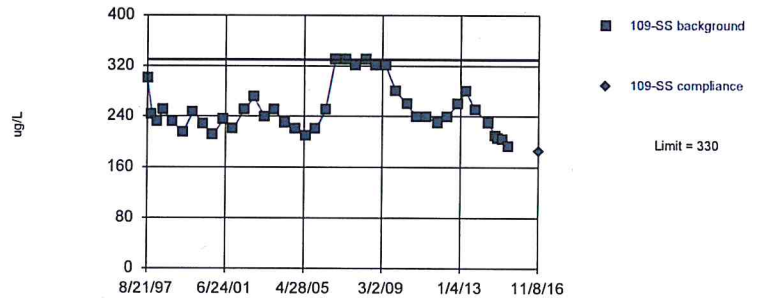
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

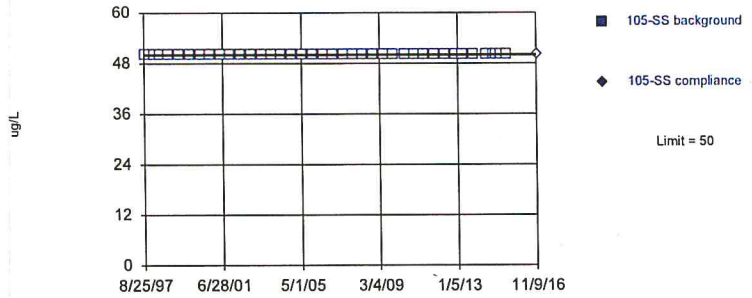
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

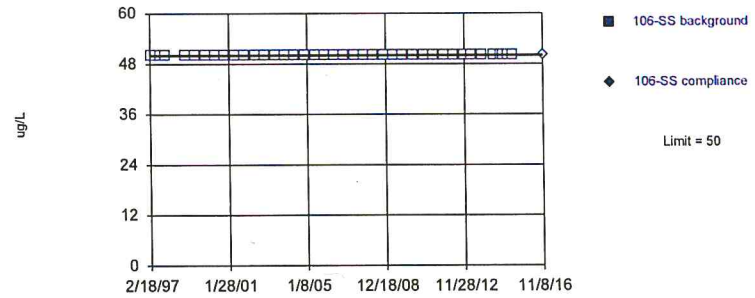
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

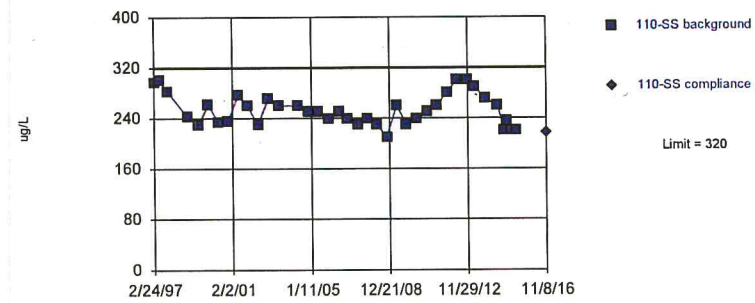
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.529, Std. Dev.=0.09624, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9502, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: <100 (8/22/1997); 400 (11/20/2003).

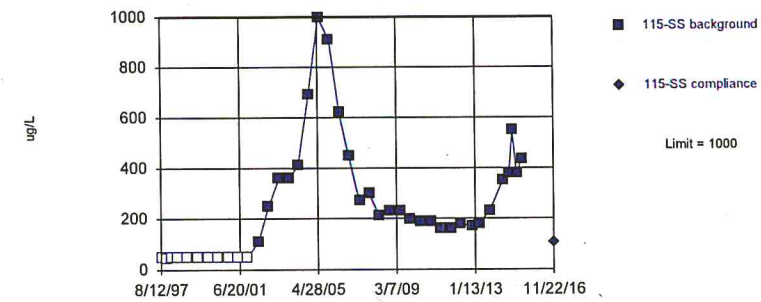
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 27.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

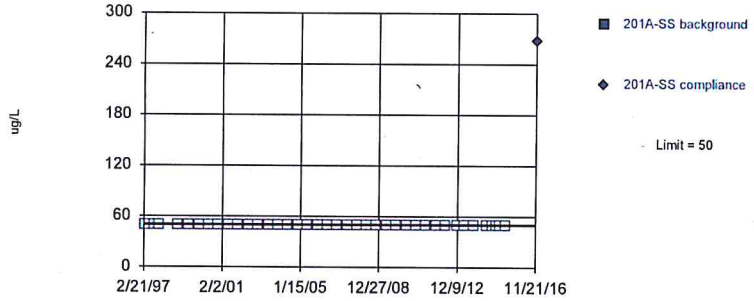
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

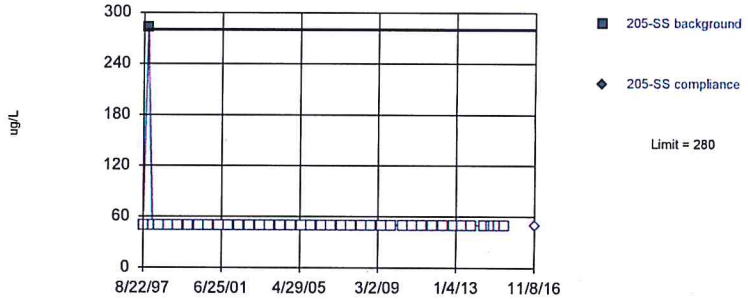
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

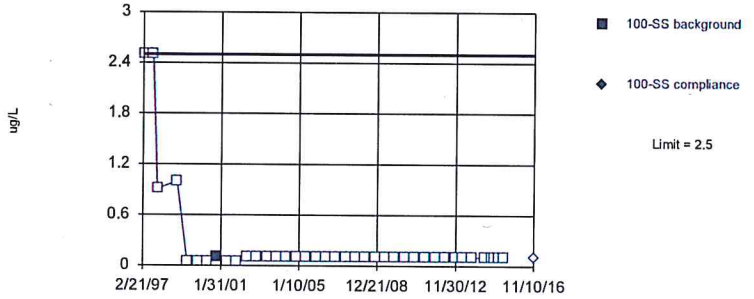
Constituent: Boron Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

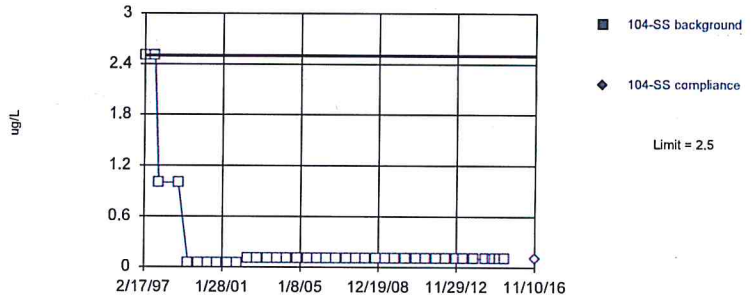
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

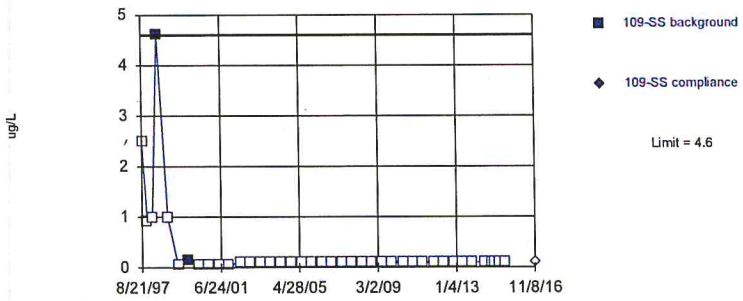
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

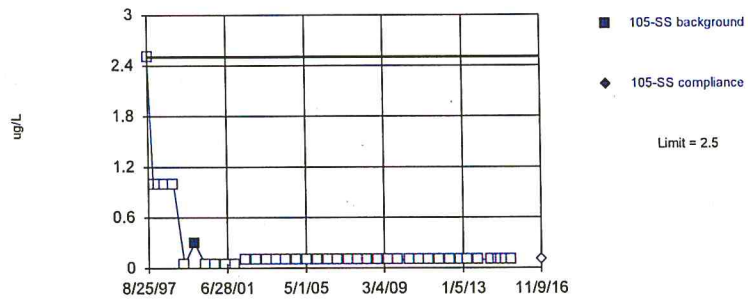
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

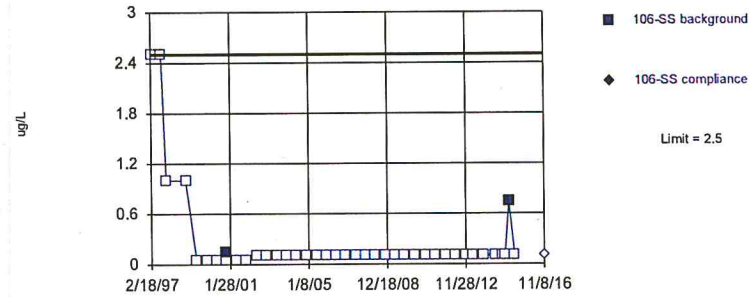
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

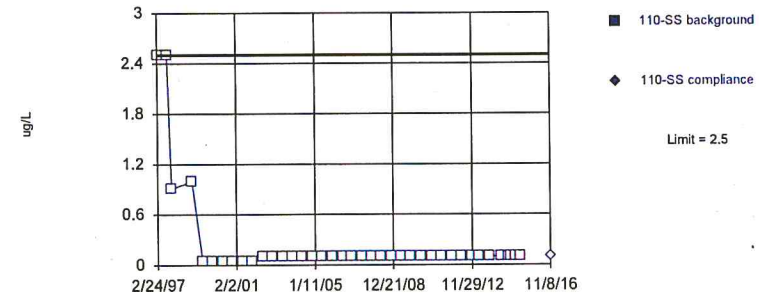
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

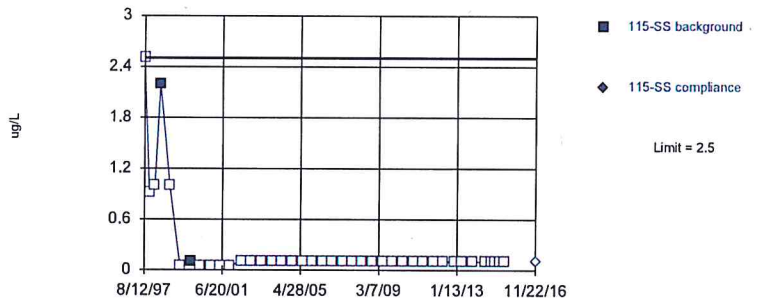
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

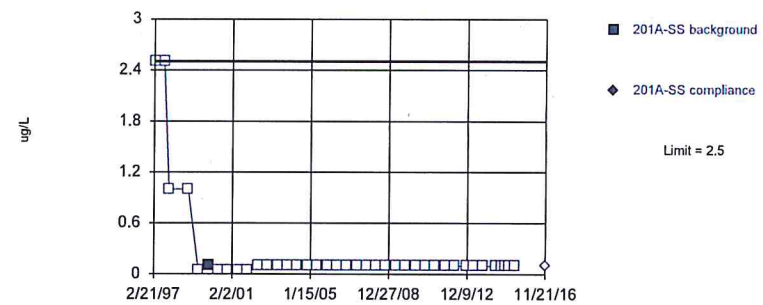
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

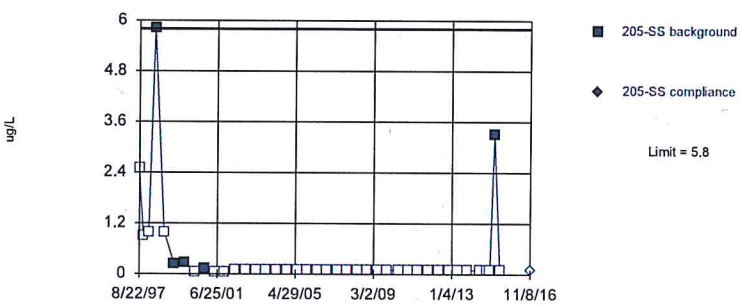
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

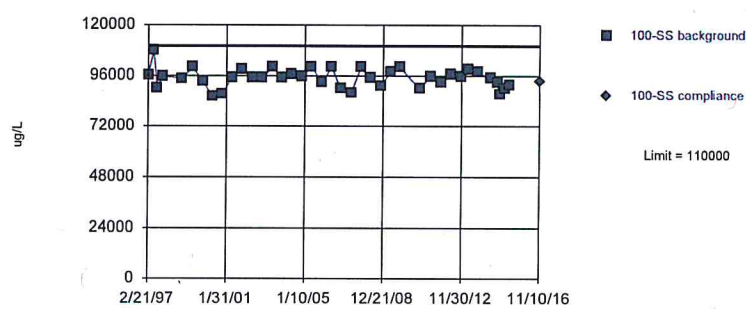
Constituent: Cadmium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.04697, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9614, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 76000 (5/19/2010).

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on square transformation): Mean=6.8e9, Std. Dev.=1.0e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

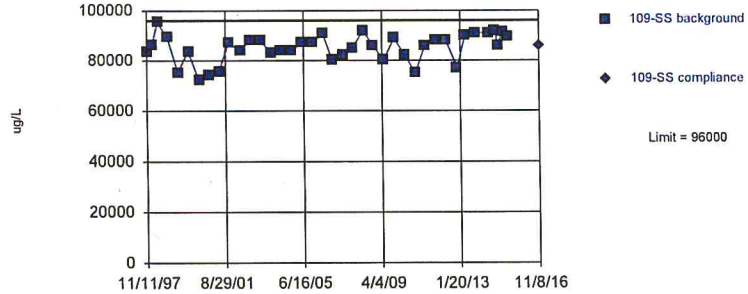
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=4.0e29, Std. Dev.=1.4e29, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9743, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 174000 (8/21/1997).

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

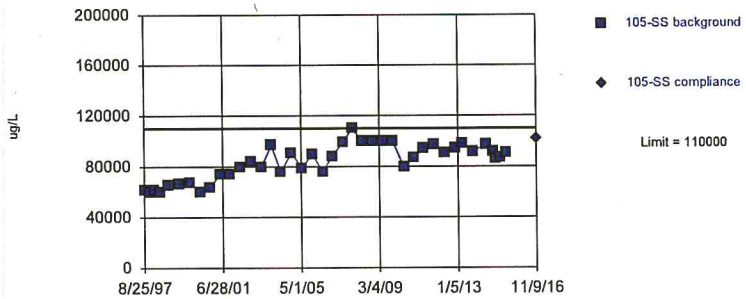
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.3e14, Std. Dev.=2.9e14, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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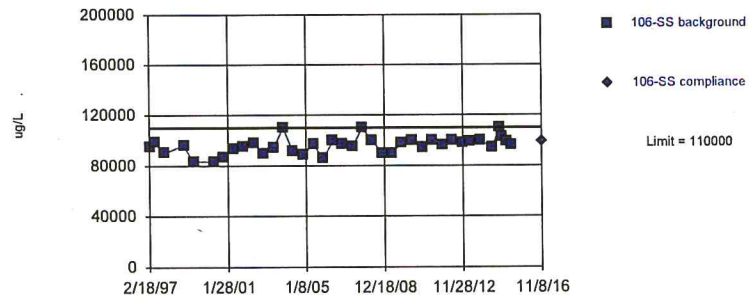
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.47, Std. Dev.=0.06606, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 9000 (11/19/1999).

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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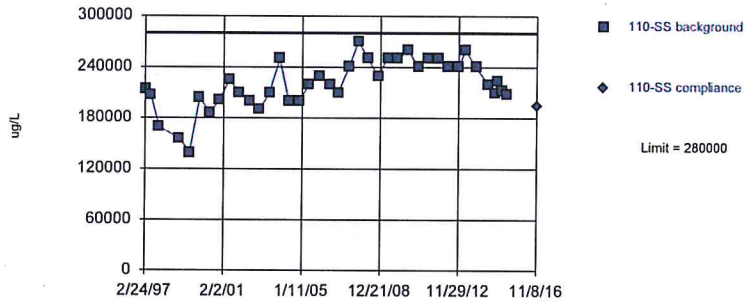
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e16, Std. Dev.=4.0e15, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 91000 (8/22/1997).

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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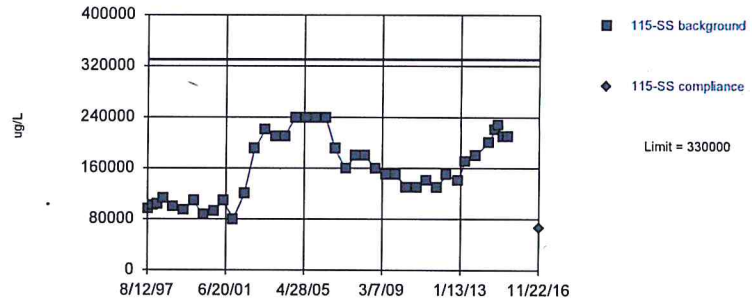
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=53.67, Std. Dev.=5.883, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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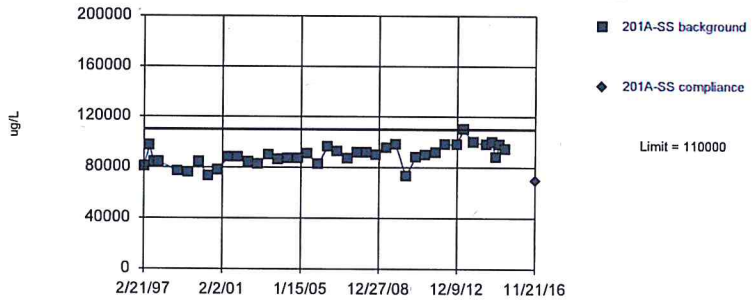
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=89200, Std. Dev.=8121, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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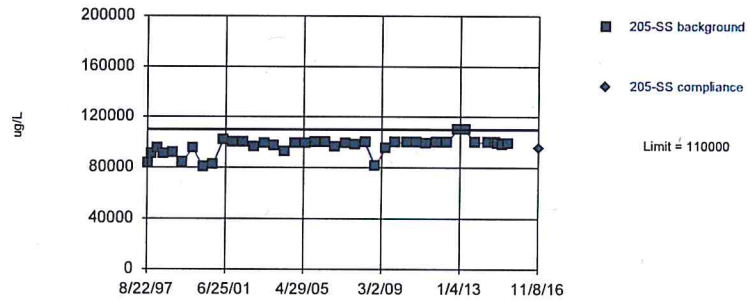
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 1/3/2017 8:12 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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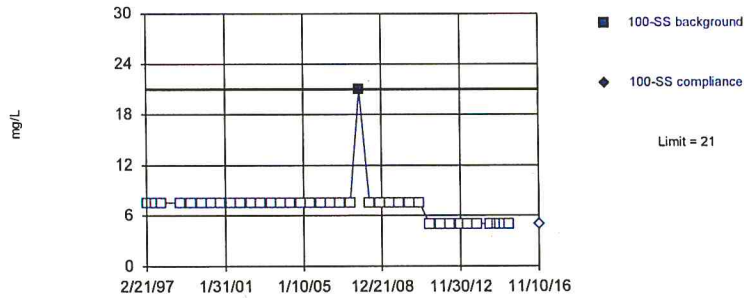
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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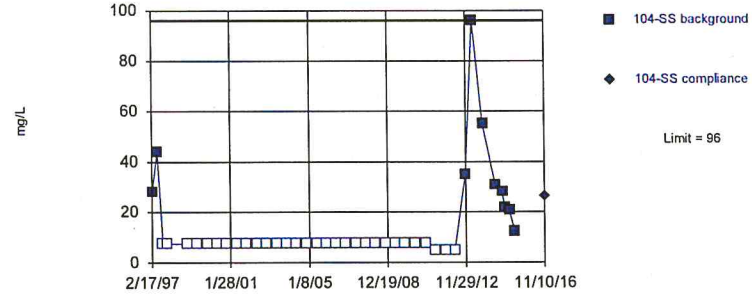
Hollow symbols indicate censored values.

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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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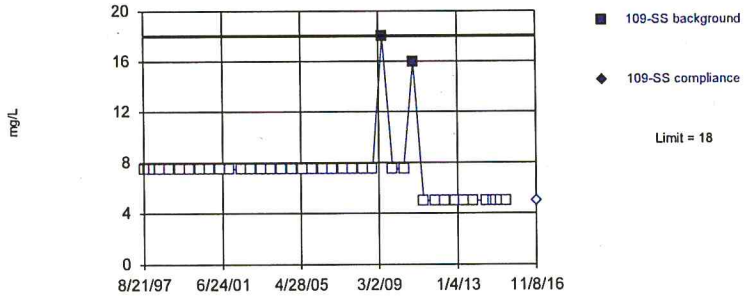
Hollow symbols indicate censored values.

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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

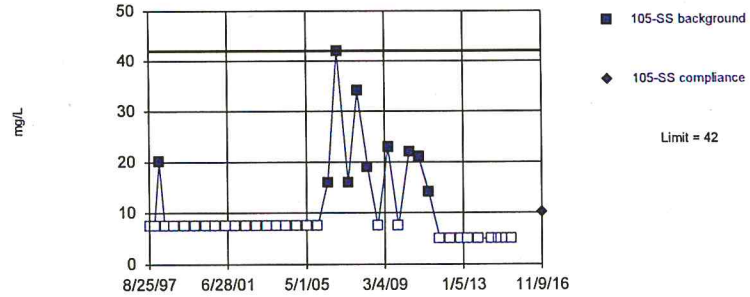
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

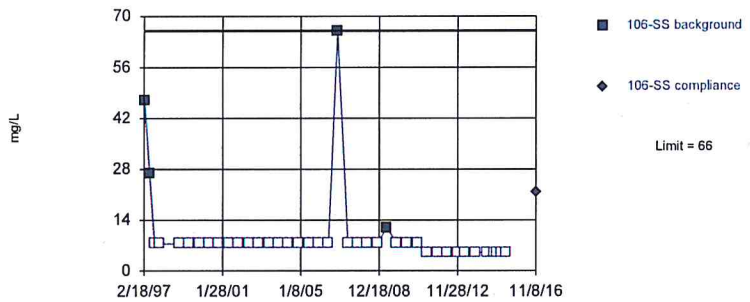
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:12 AM

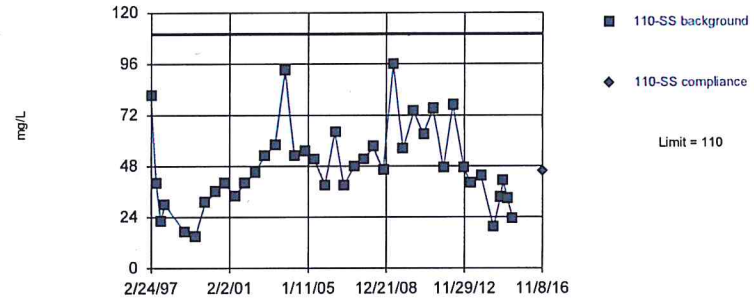
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=6.76, Std. Dev.=1.404, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9773, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:13 AM

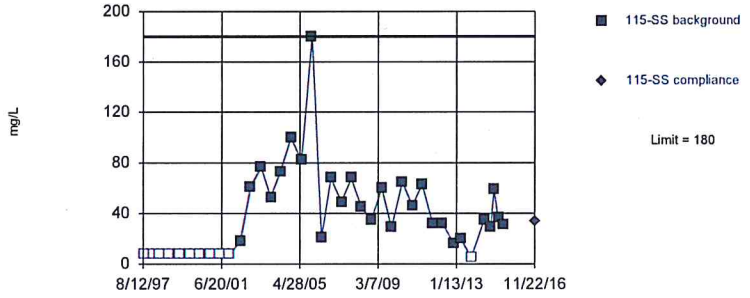
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:13 AM

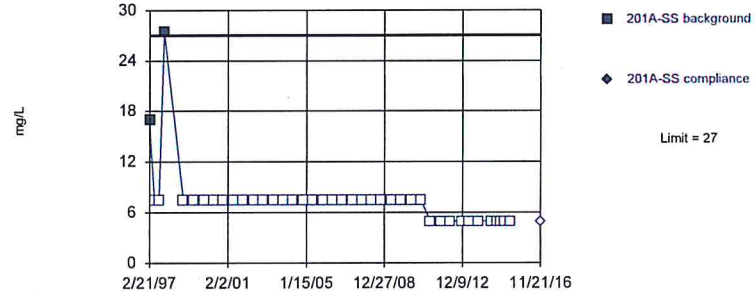
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:13 AM

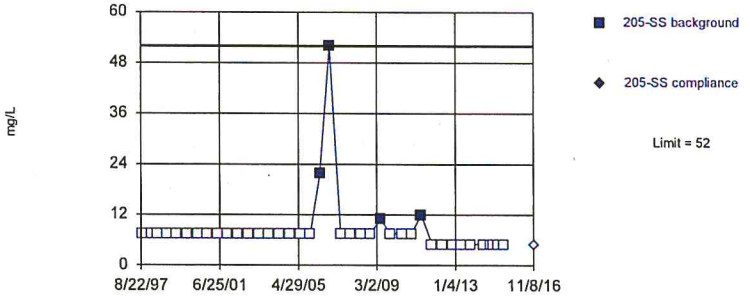
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

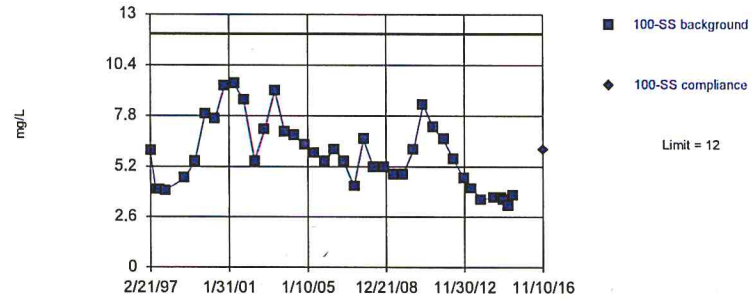
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.706, Std. Dev.=0.3034, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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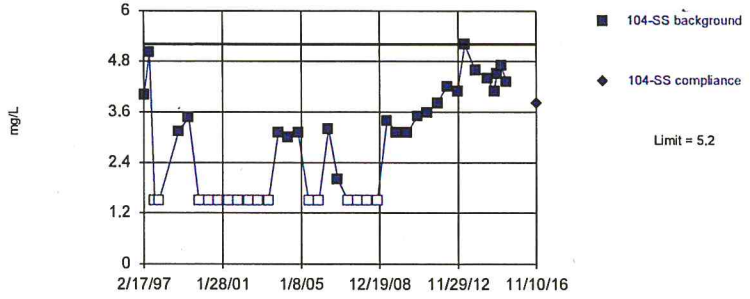
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 40% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

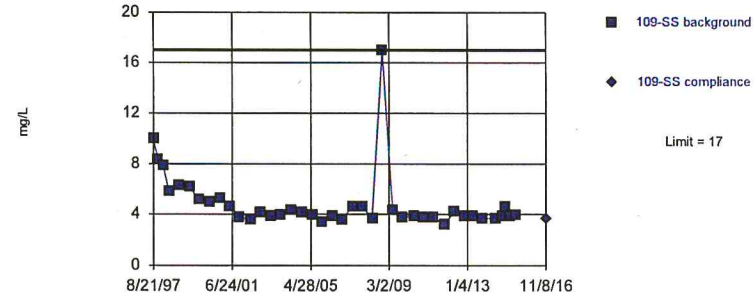
Constituent: Chloride Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

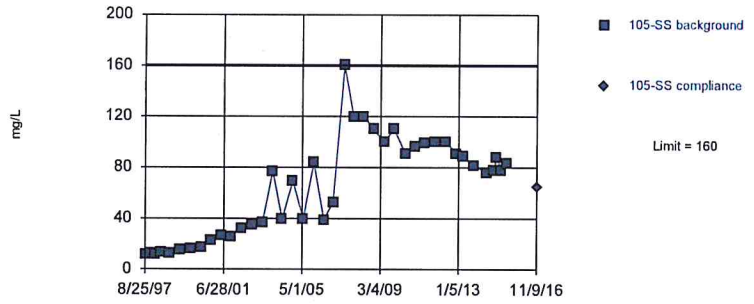
Constituent: Chloride Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

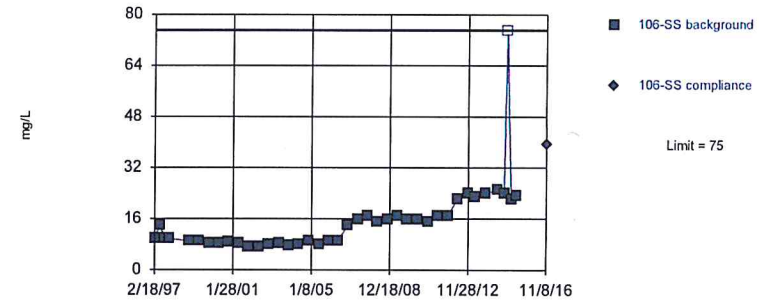
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 0.01 alpha level. Limit is highest of 40 background values. 2.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:13 AM

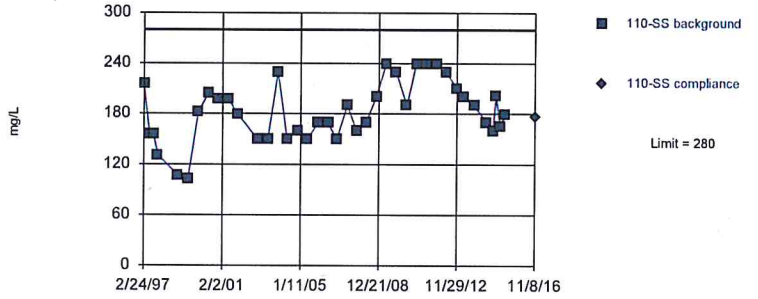
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=182.4, Std. Dev.=35.44, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <3 (5/21/2002).

Constituent: Chloride Analysis Run 1/3/2017 8:13 AM

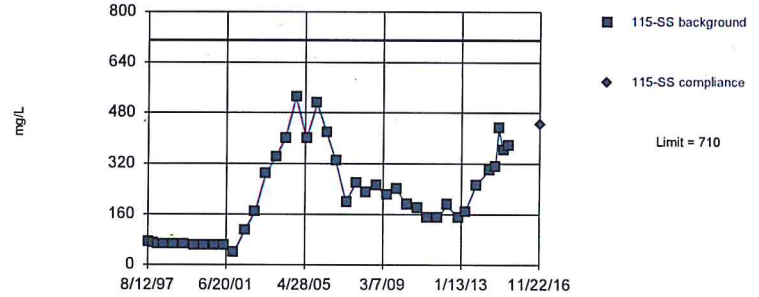
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=14.05, Std. Dev.=4.798, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:13 AM

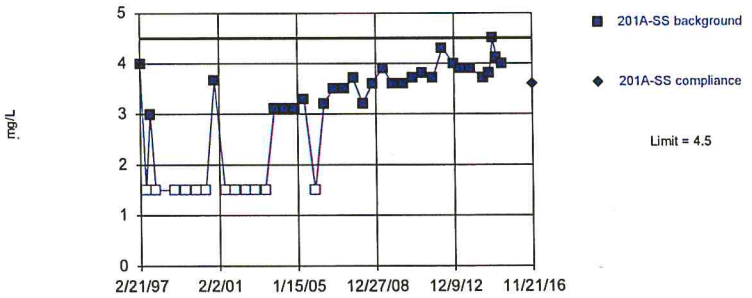
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
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 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

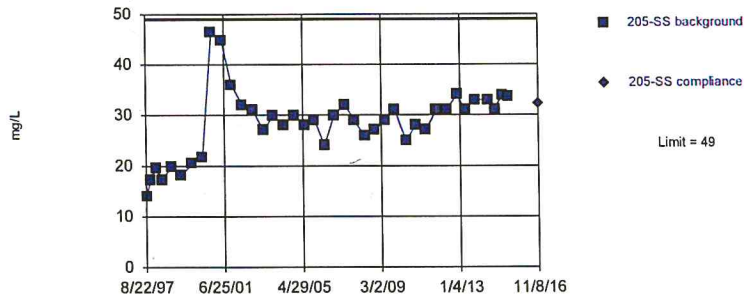
Constituent: Chloride Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.298, Std. Dev.=0.6393, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9436, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <150 (11/20/2014).

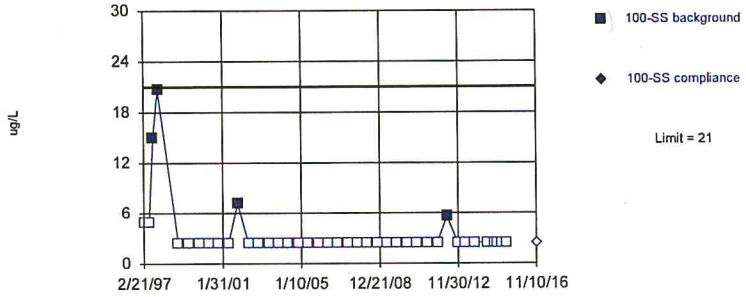
Constituent: Chloride Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

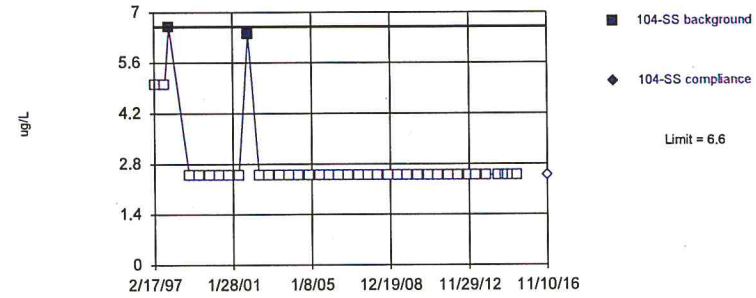
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

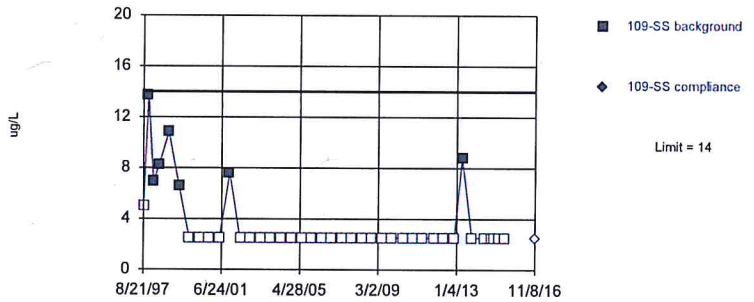
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

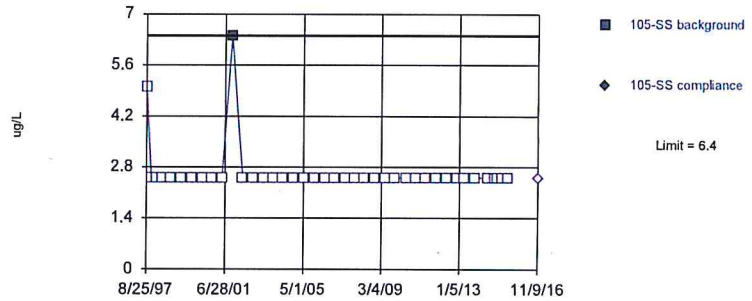
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

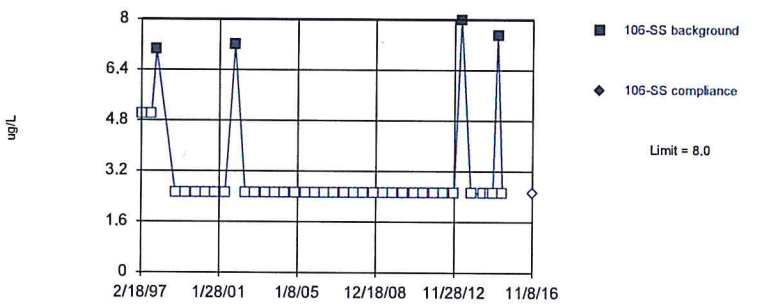
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

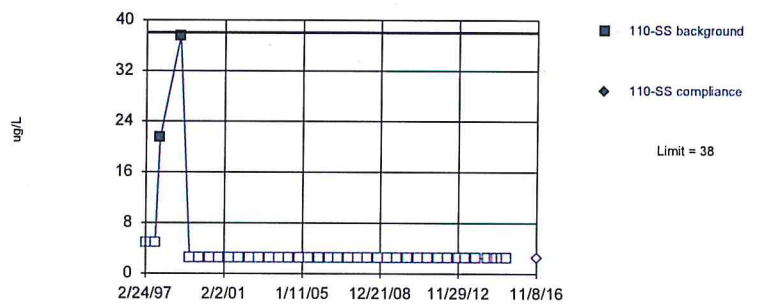
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

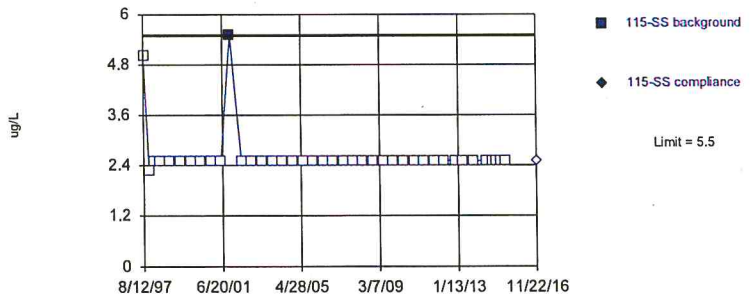
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

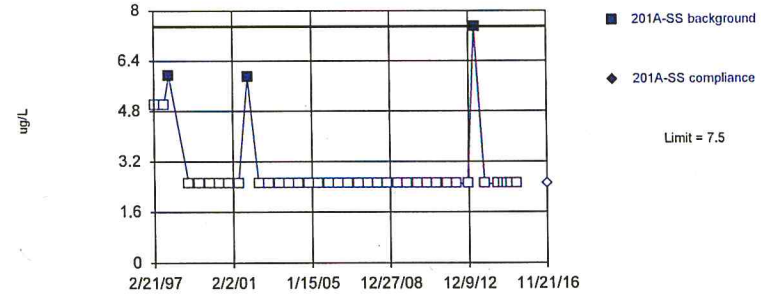
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

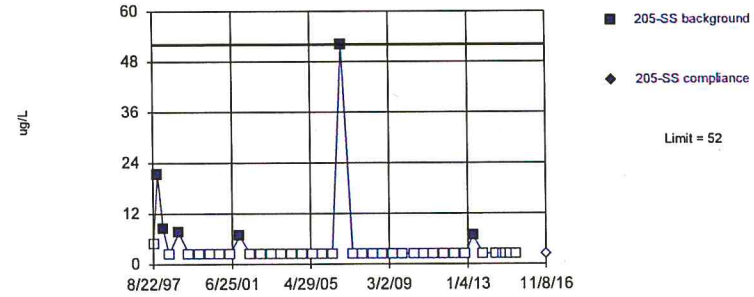
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

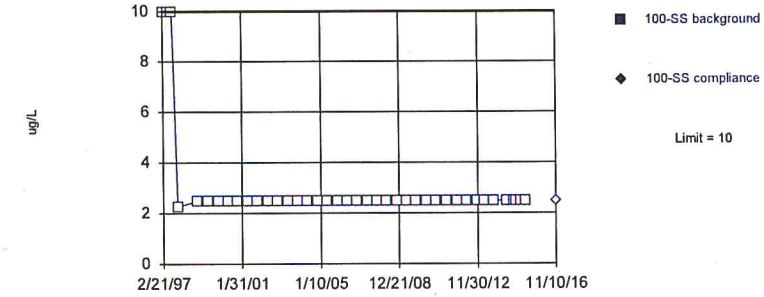
Constituent: Chromium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

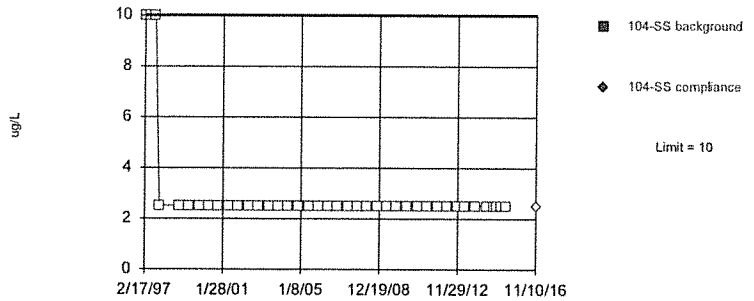
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

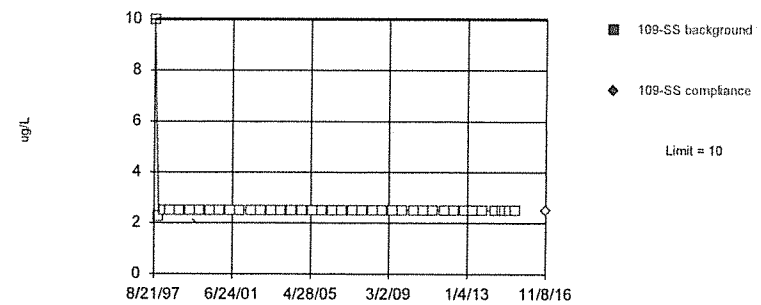
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

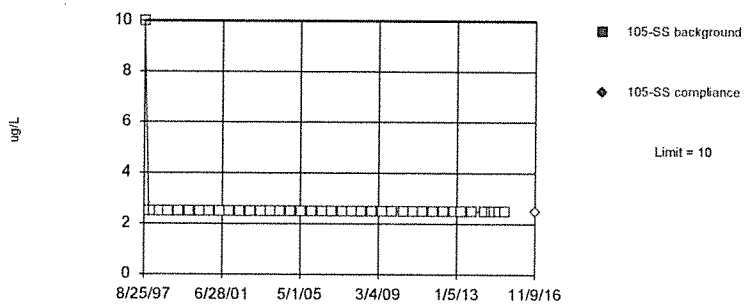
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

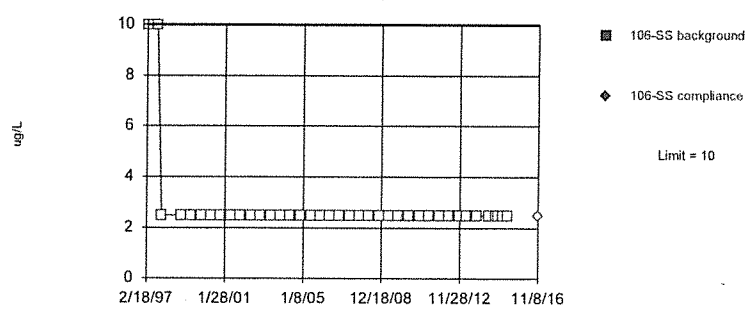
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

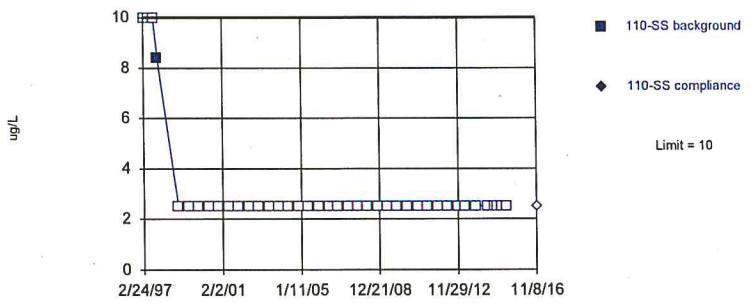
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

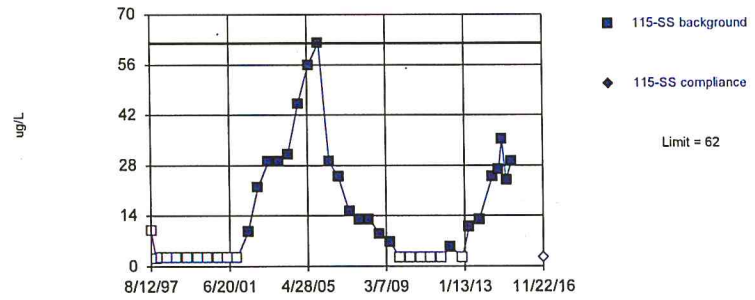
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

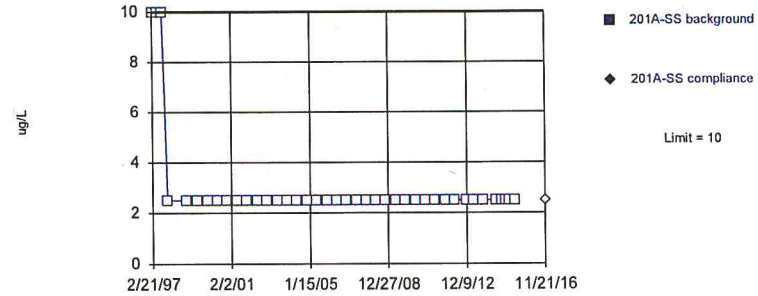
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

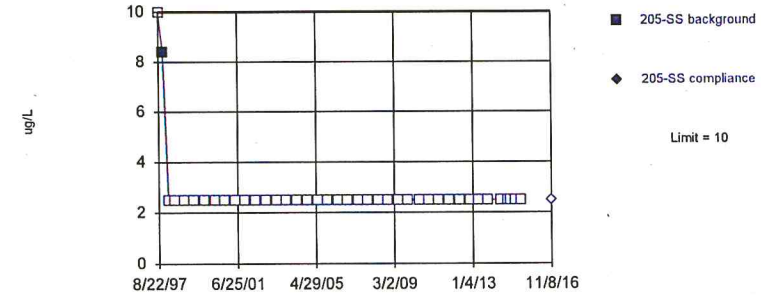
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

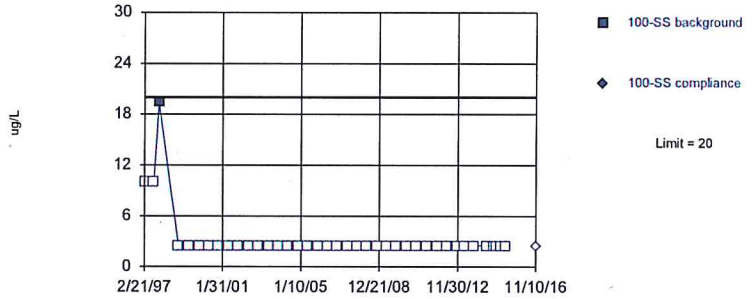
Constituent: Cobalt Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

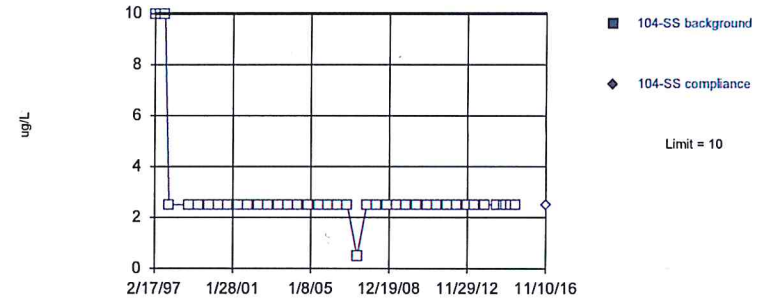
Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

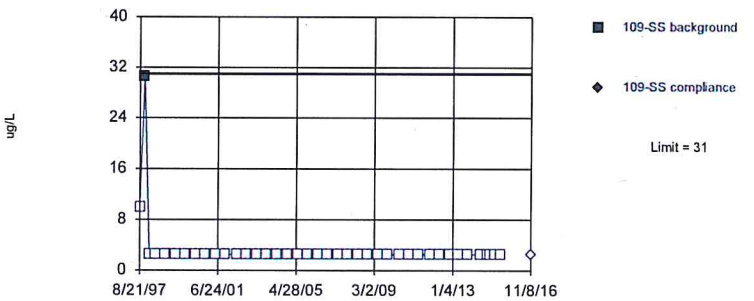
Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

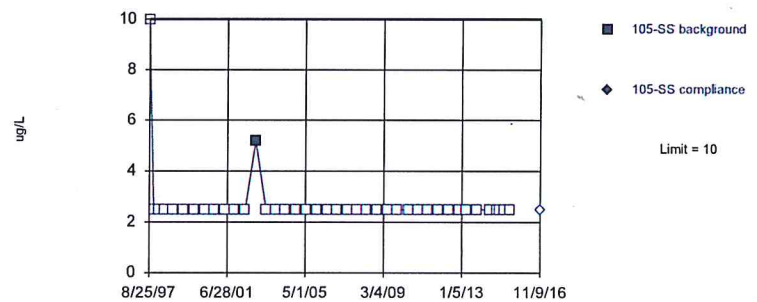
Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

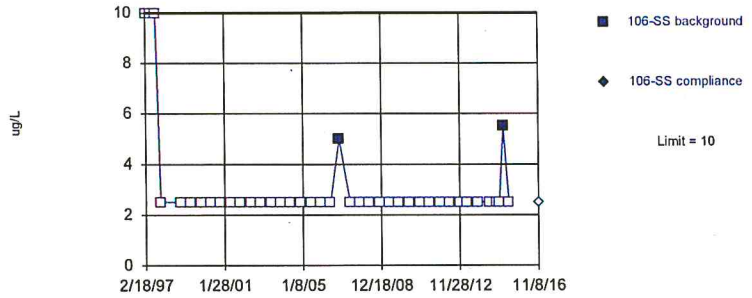
Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

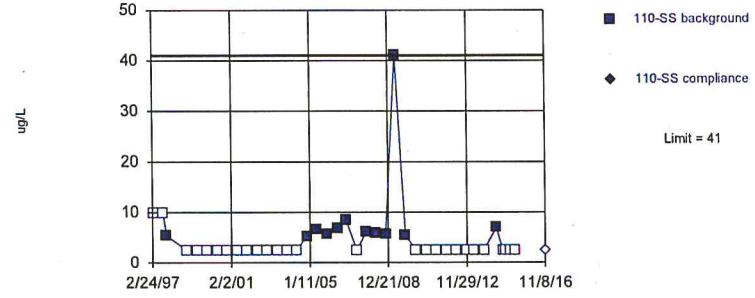
Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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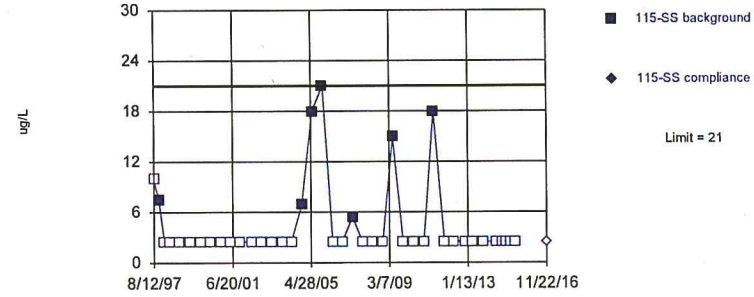
Hollow symbols indicate censored values.

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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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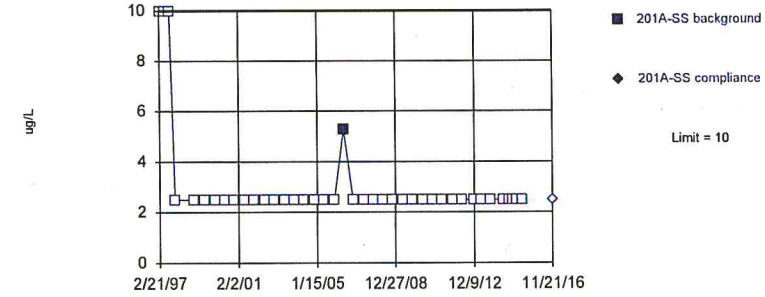
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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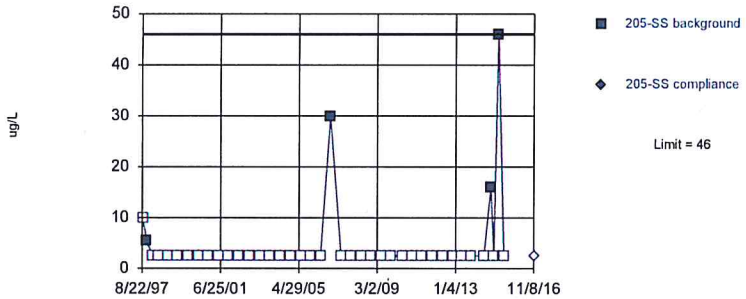
Hollow symbols indicate censored values.

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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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Bridgeton LF Client: RSI Data: Bridgeton LF

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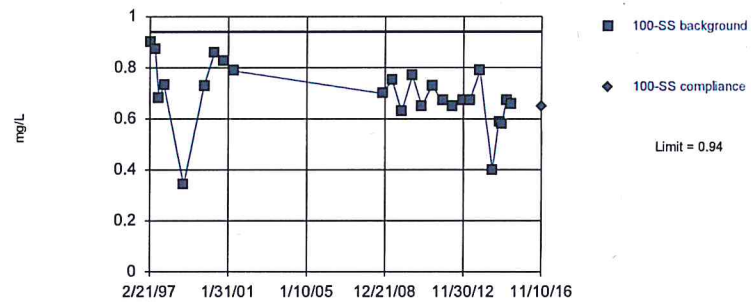
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=0.3625, Std. Dev.=0.1685, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9619, critical = 0.888. Kappa = 2.812 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <0.25 (5/18/1999).

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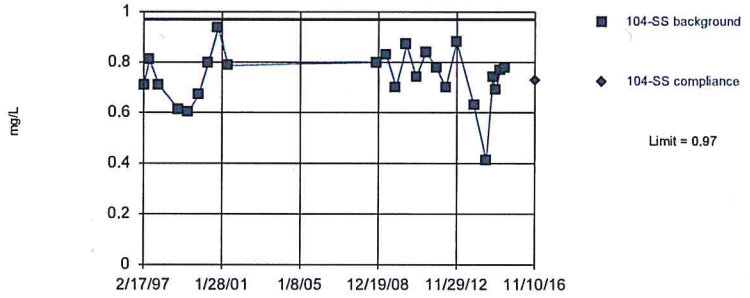
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=0.4327, Std. Dev.=0.1674, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9904, critical = 0.884. Kappa = 2.841 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: <0.25 (8/28/1997); 0.3 (4/11/2013).

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on square transformation): Mean=4.504, Std. Dev.=0.9566, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

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Bridgeton LF Client: RSI Data: Bridgeton LF

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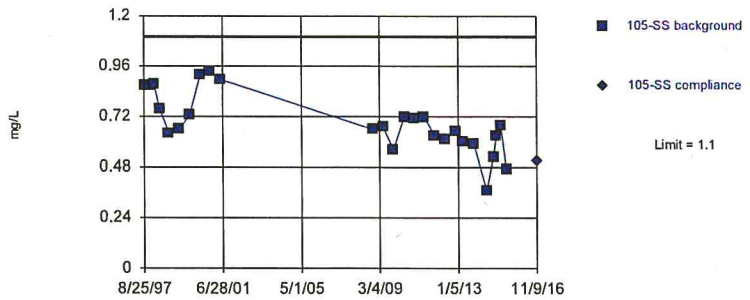
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.6903, Std. Dev.=0.1403, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9562, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Fluoride Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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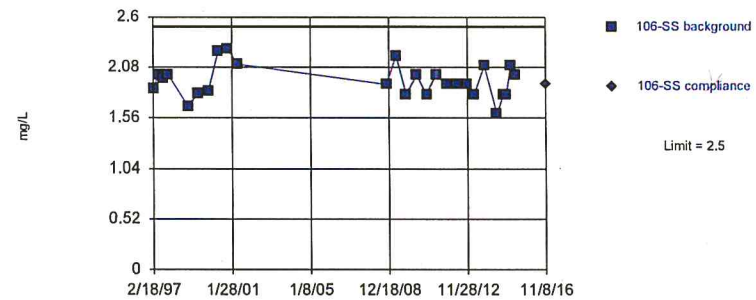
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6576, Std. Dev.=0.08543, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

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Bridgeton LF Client: RSI Data: Bridgeton LF

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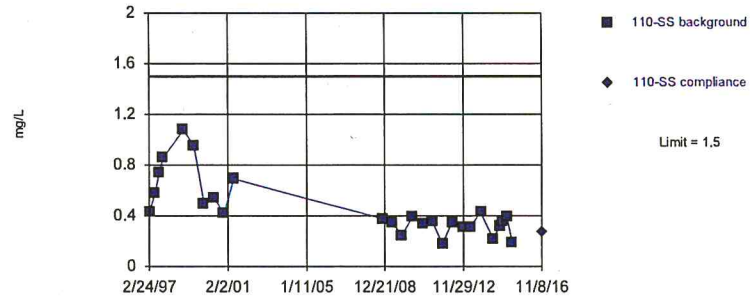
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.8833, Std. Dev.=0.4611, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.961, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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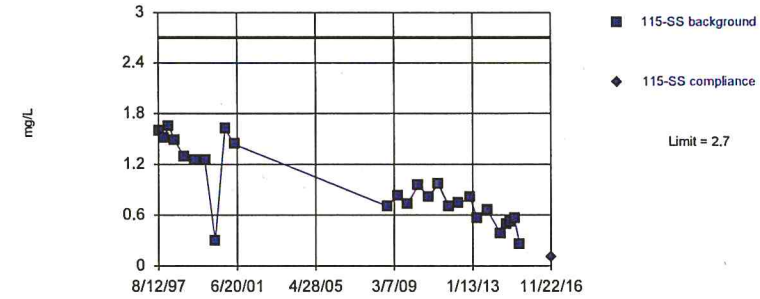
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.9509, Std. Dev.=0.1594, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9484, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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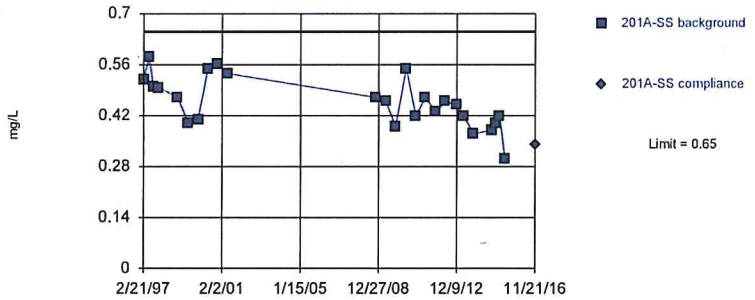
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.4567, Std. Dev.=0.06897, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.888. Kappa = 2.812 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.2 (5/28/2014).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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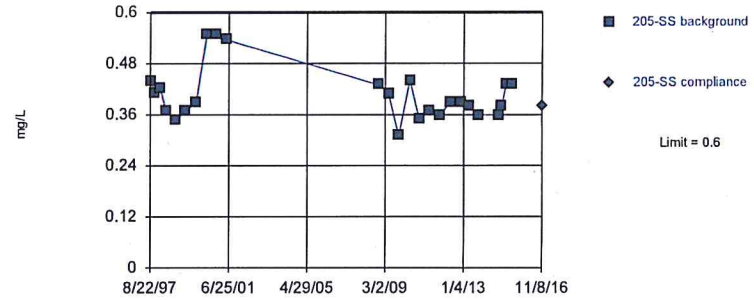
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.909, Std. Dev.=0.1421, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9114, critical = 0.888. Kappa = 2.812 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.18 (5/28/2014).

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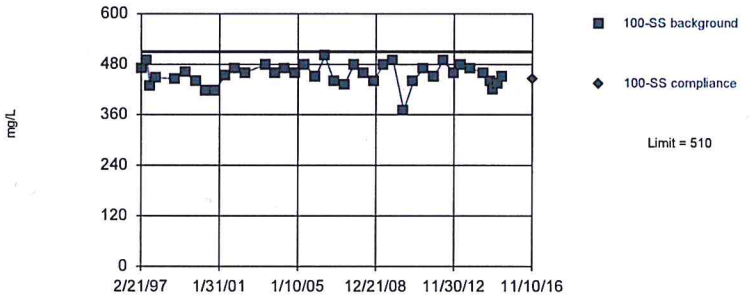
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.0e13, Std. Dev.=5.2e12, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9827, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 150 (11/19/2002).

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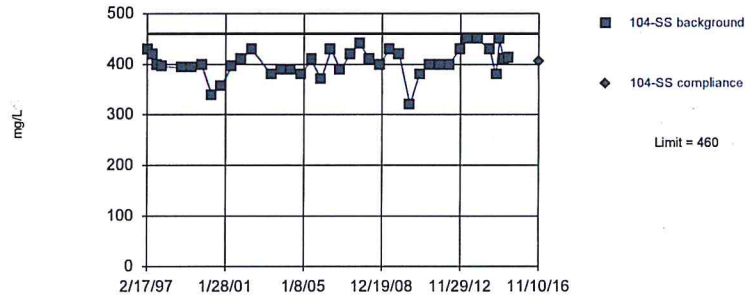
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=2.7e10, Std. Dev.=7.1e9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9686, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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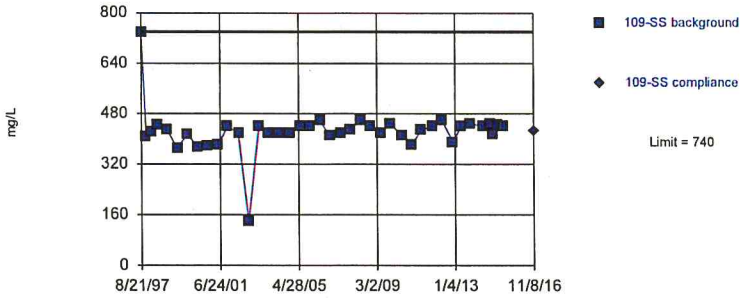
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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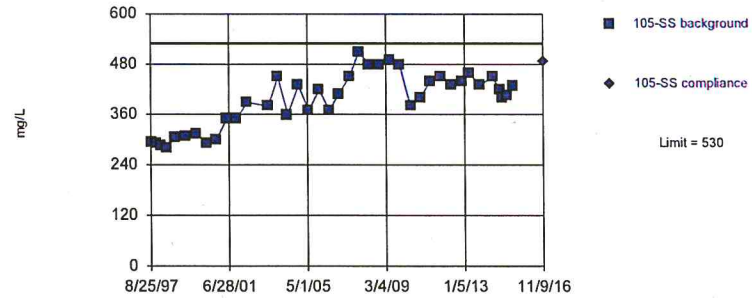
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.6e7, Std. Dev.=3.0e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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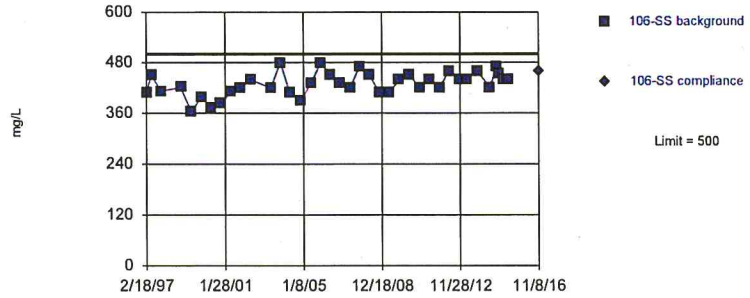
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=185370, Std. Dev.=23529, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9721, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/25/1997); 130 (11/19/2002).

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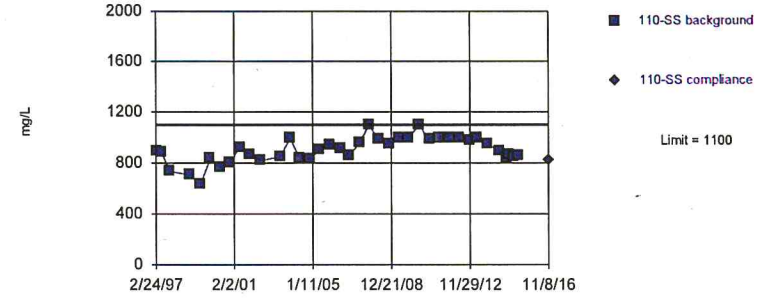
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=828828, Std. Dev.=178557, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9687, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 437 (8/22/1997); 270 (11/19/2002).

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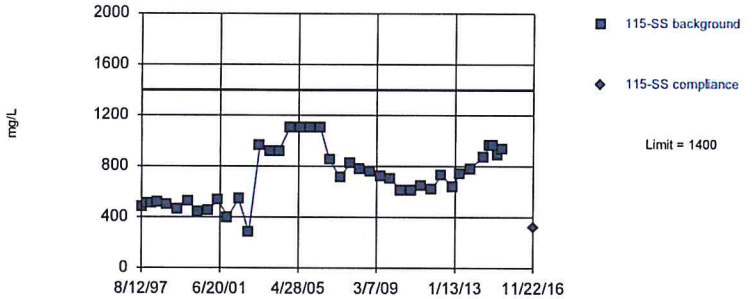
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=26.46, Std. Dev.=4.163, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9609, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Hardness Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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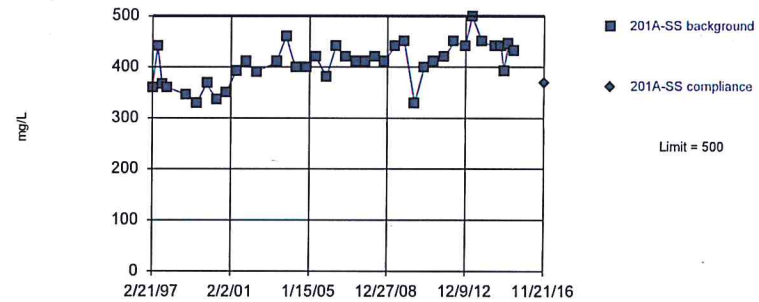
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=166992, Std. Dev.=31934, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

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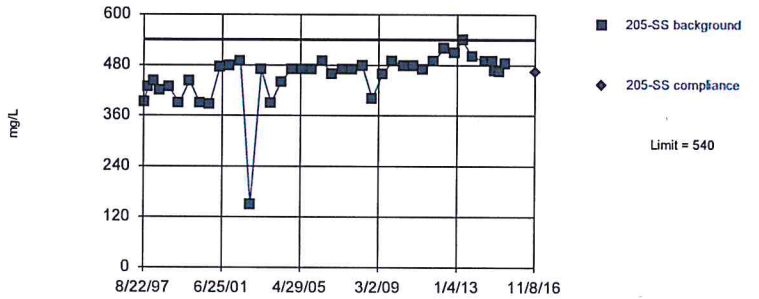
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.2e13, Std. Dev.=9.0e12, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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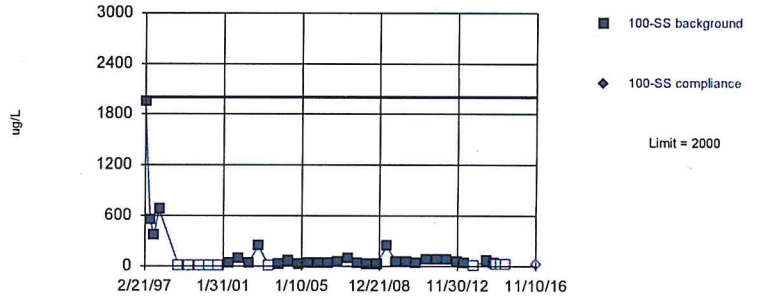
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 25% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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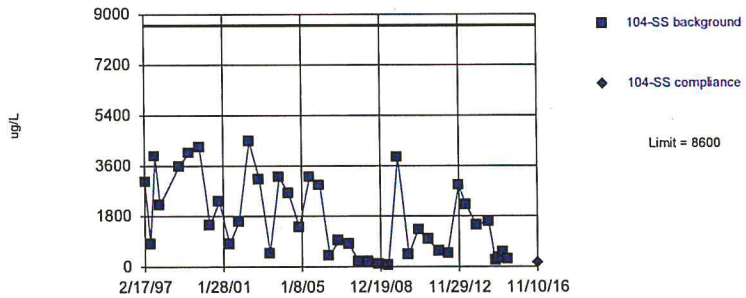
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=10.96, Std. Dev.=3.646, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9386, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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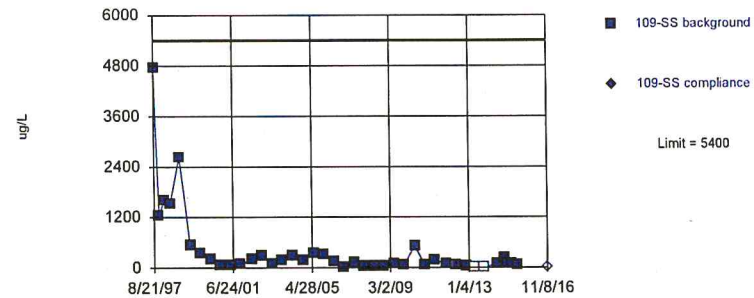
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.028, Std. Dev.=1.361, n=40, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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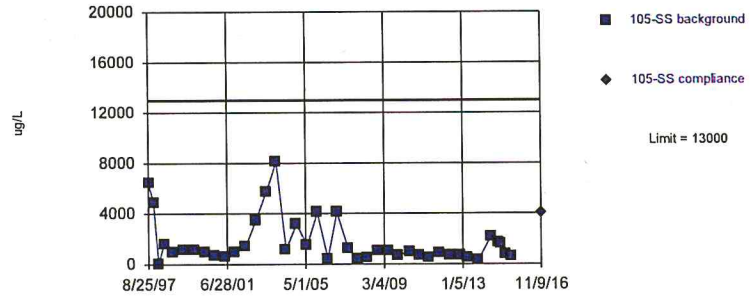
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.052, Std. Dev.=0.9184, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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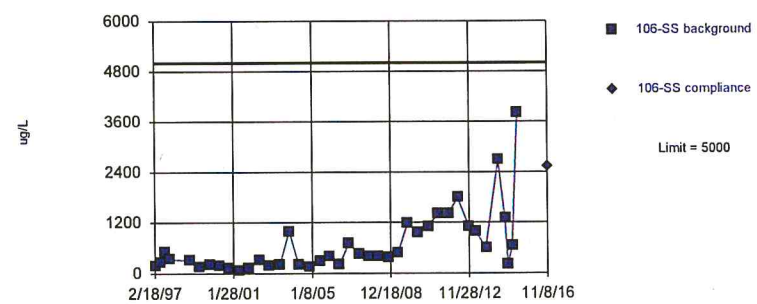
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.103, Std. Dev.=0.921, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

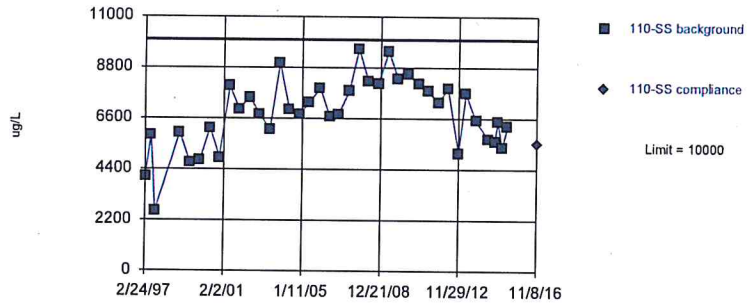
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.9e7, Std. Dev.=2.0e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9841, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <18.2 (11/8/1997).

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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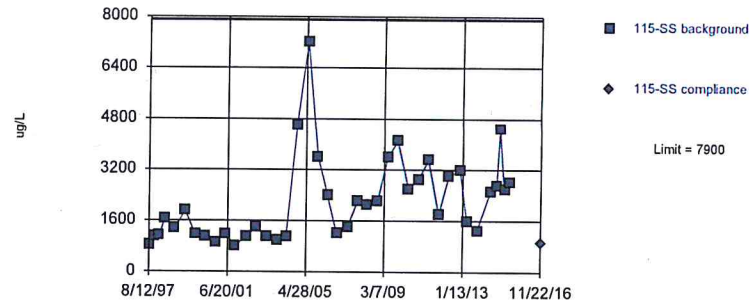
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.55, Std. Dev.=0.5467, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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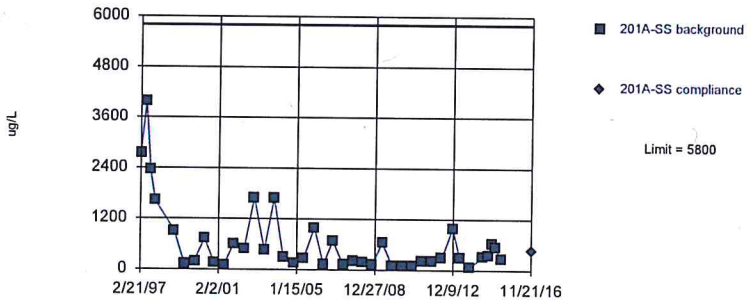
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.9. Std. Dev.=1.058, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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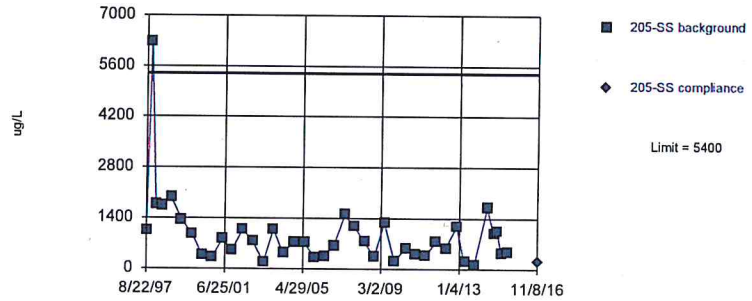
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.53, Std. Dev.=0.7894, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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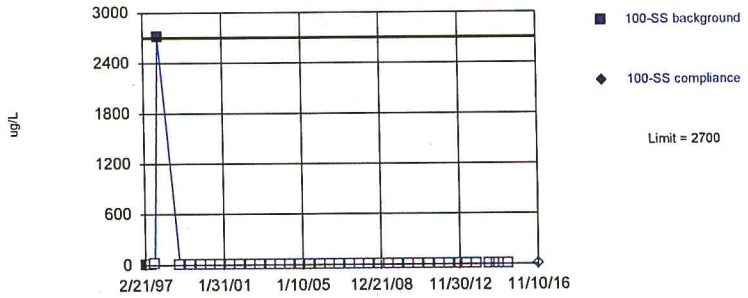
Hollow symbols indicate censored values.

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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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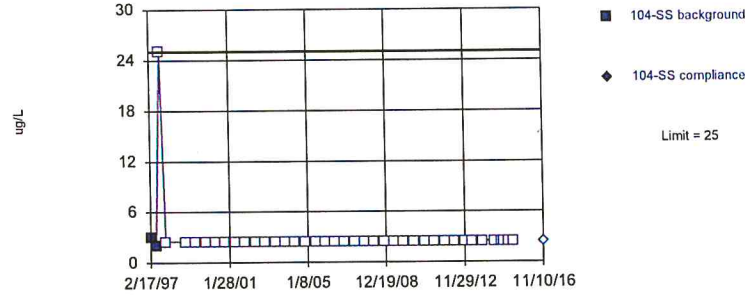
Hollow symbols indicate censored values.

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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

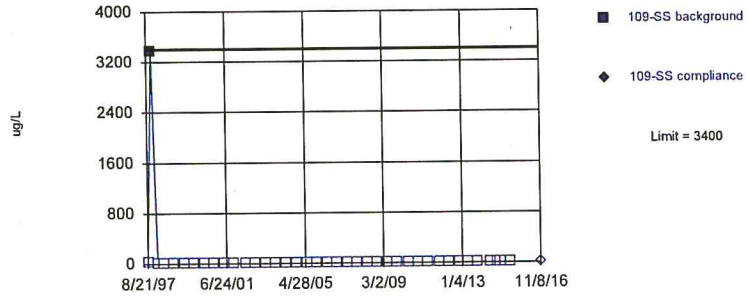
Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

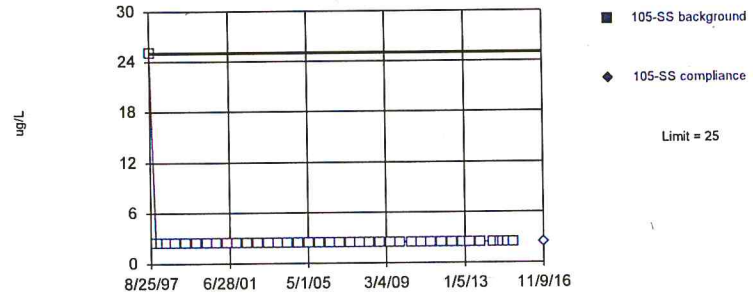
Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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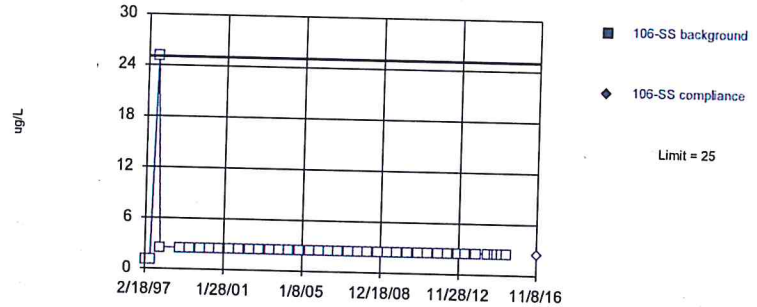
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

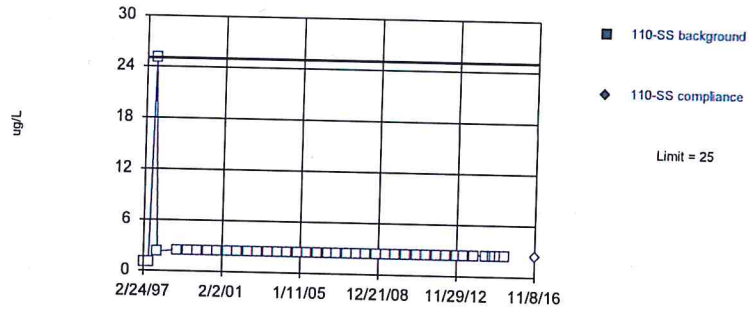
Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

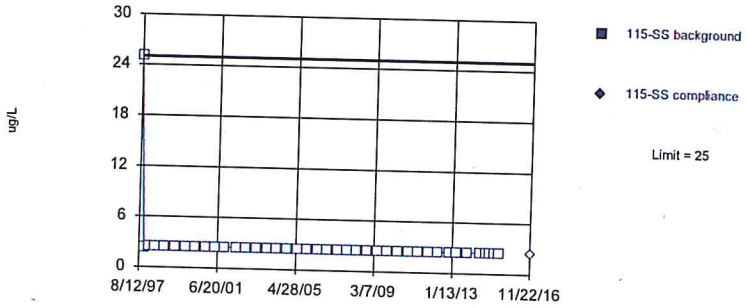
Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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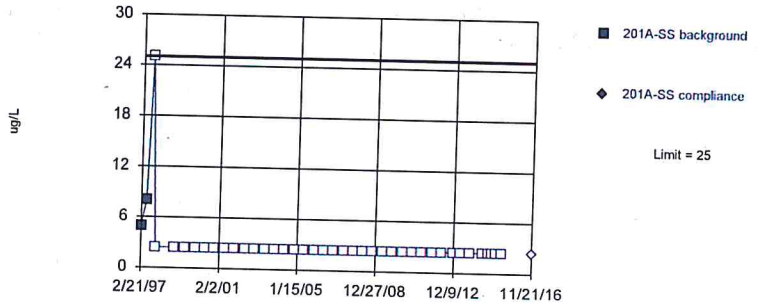
Hollow symbols indicate censored values.

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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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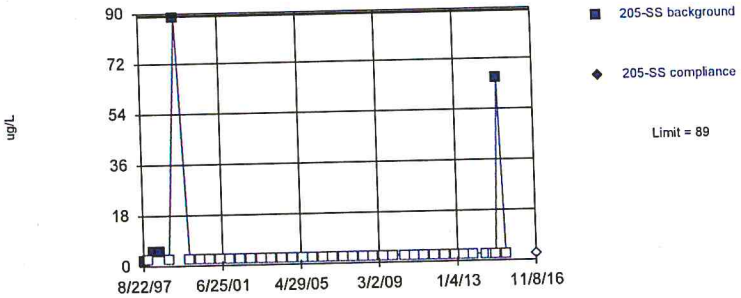
Hollow symbols indicate censored values.

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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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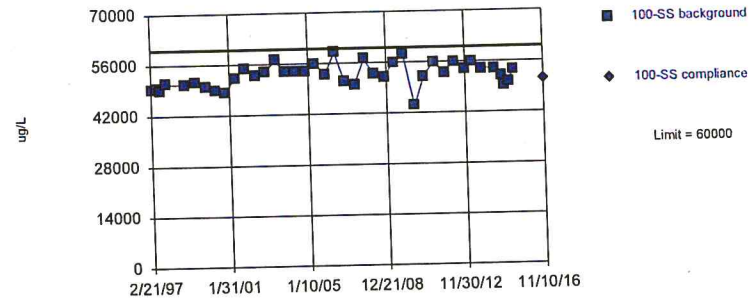
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.5e14, Std. Dev.=2.5e13, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9819, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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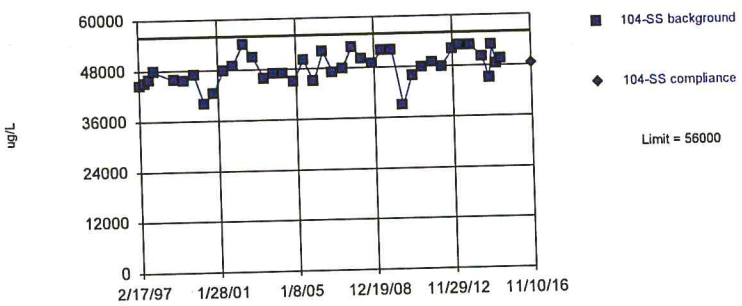
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e14, Std. Dev.=2.4e13, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

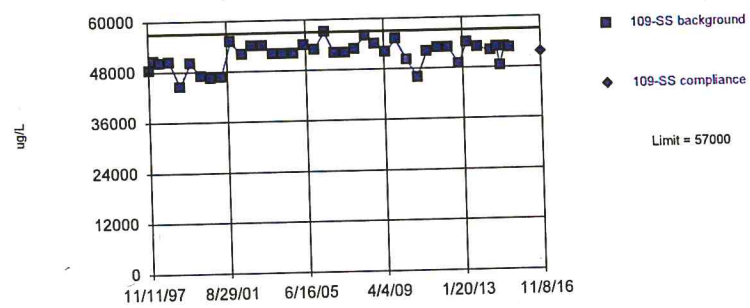
Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=2.0e28, Std. Dev.=5.9e27, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9685, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 74000 (8/21/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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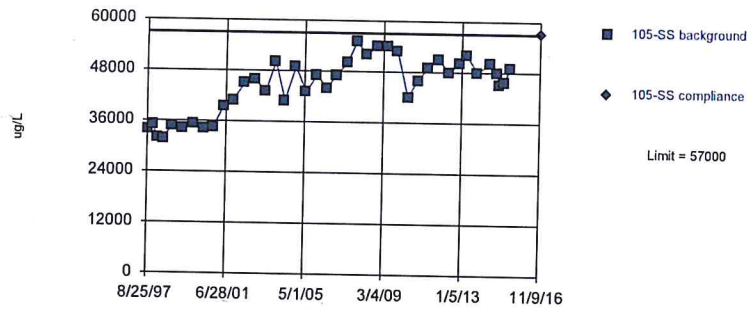
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.5e18, Std. Dev.=2.3e18, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.944, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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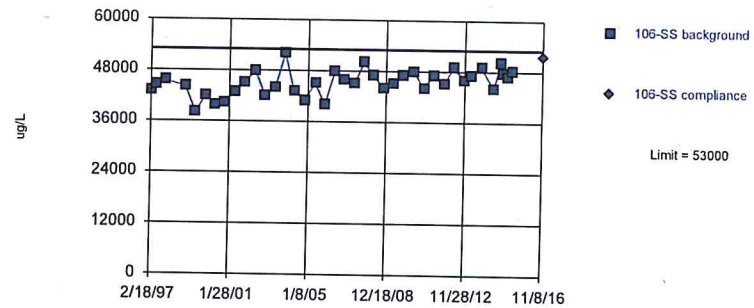
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=2.1e9, Std. Dev.=2.8e8, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9877, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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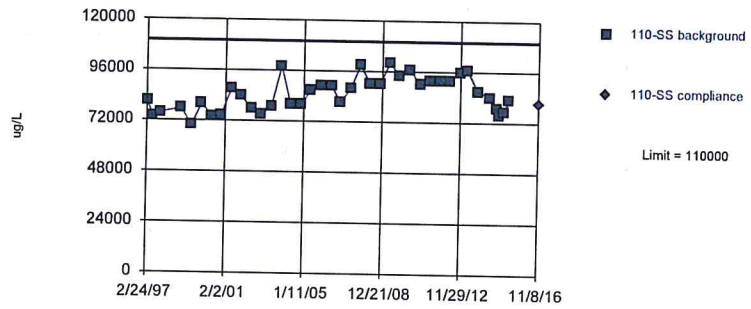
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.35, Std. Dev.=0.09625, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 51000 (8/22/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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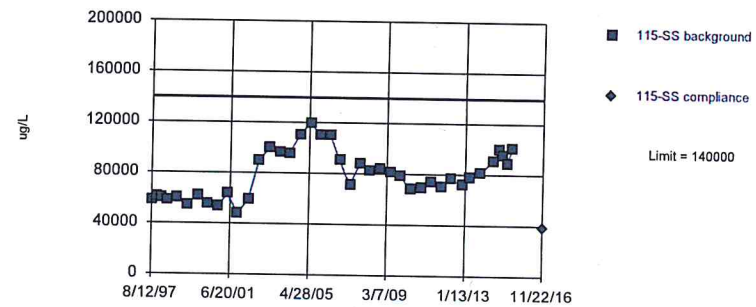
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=42.67, Std. Dev.=3.364, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9636, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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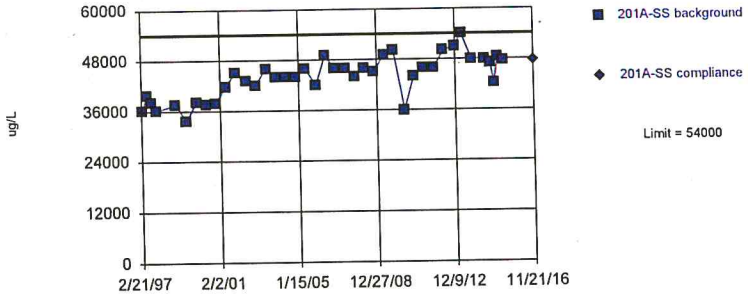
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.7e13, Std. Dev.=2.7e13, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9699, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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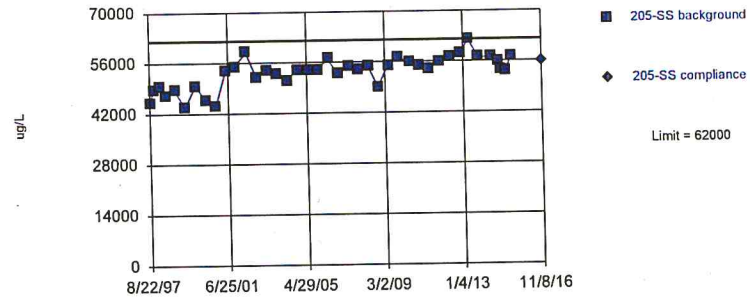
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=8.3e18, Std. Dev.=2.4e18, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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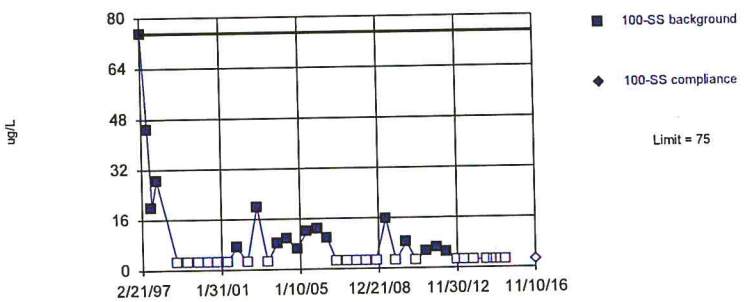
Hollow symbols indicate censored values.

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 40 background values. 57.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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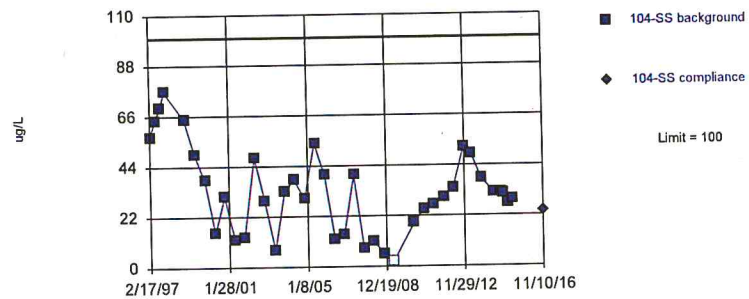
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.486, Std. Dev.=1.746, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9696, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 160 (11/4/2009).

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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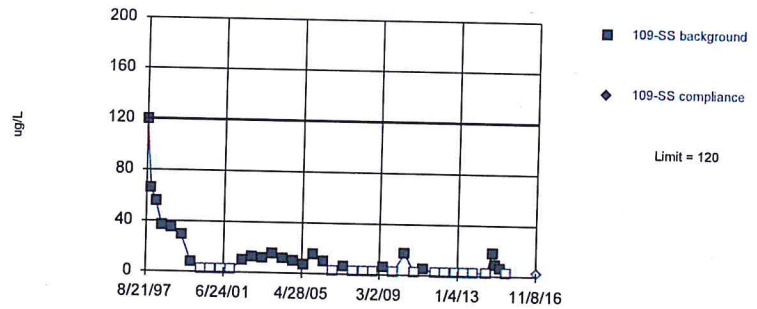
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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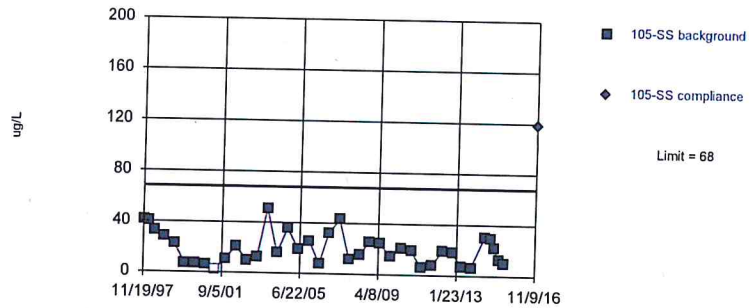
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.59, Std. Dev.=0.5683, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 240 (8/25/1997).

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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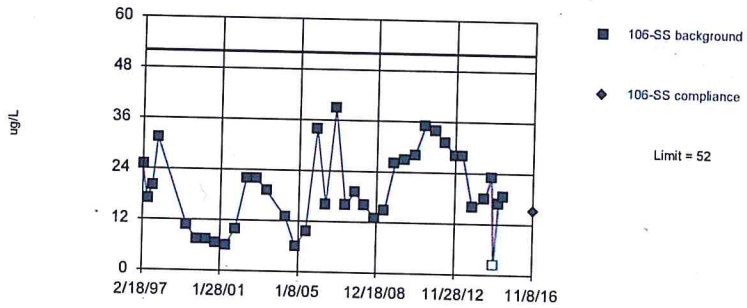
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.249, Std. Dev.=1.13, n=38, 2.632% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 84.2 (11/11/1998); 270 (11/20/2003).

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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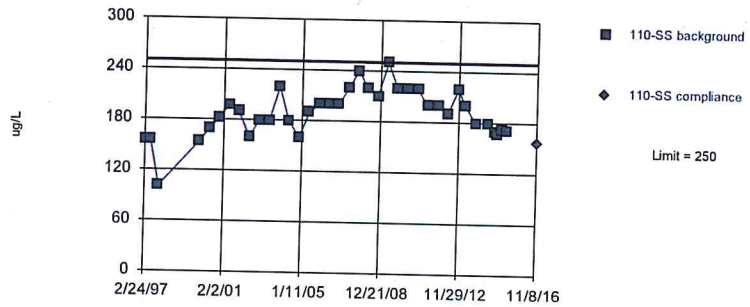
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=36863, Std. Dev.=10568, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9697, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Three background outliers were removed: 20 (8/22/1997); 70.8 (11/13/1998); 54.5 (5/18/1999).

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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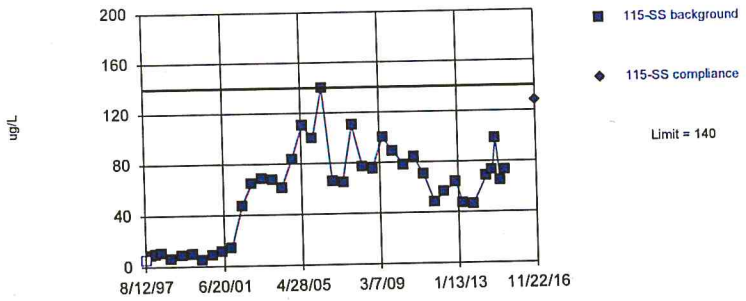
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 2.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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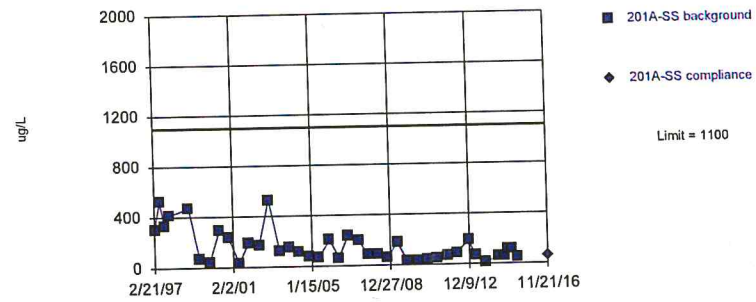
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.69, Std. Dev.=0.8887, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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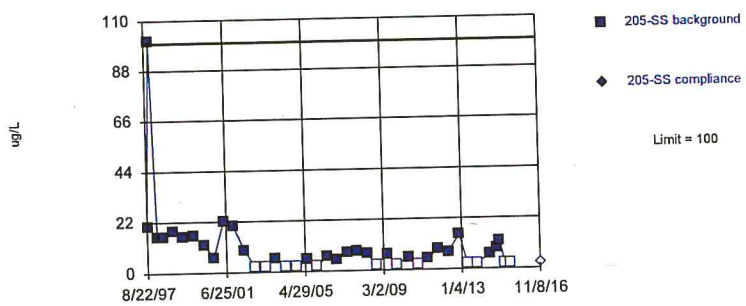
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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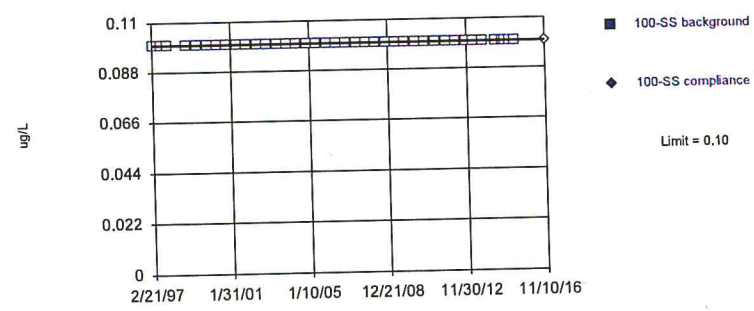
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

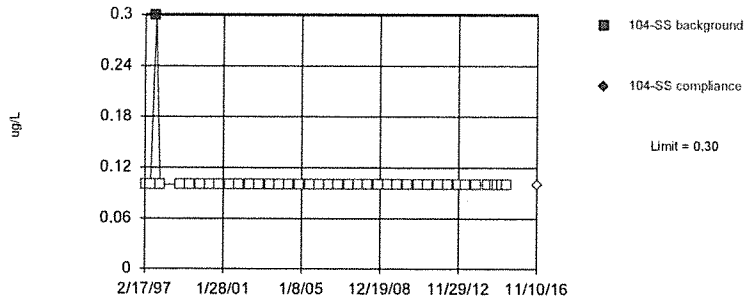
Constituent: Mercury Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

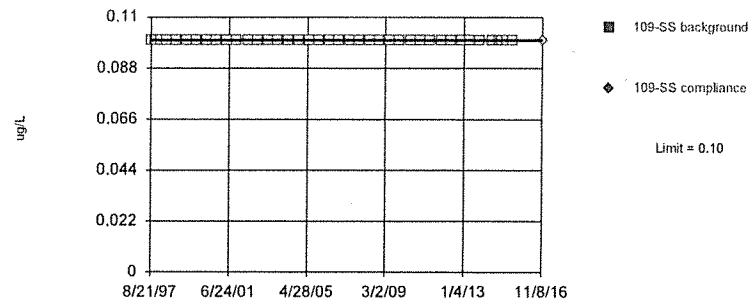
Constituent: Mercury Total Analysis Run 1/3/2017 8:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

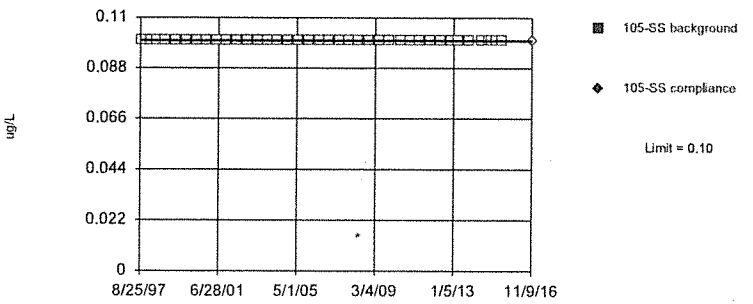
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

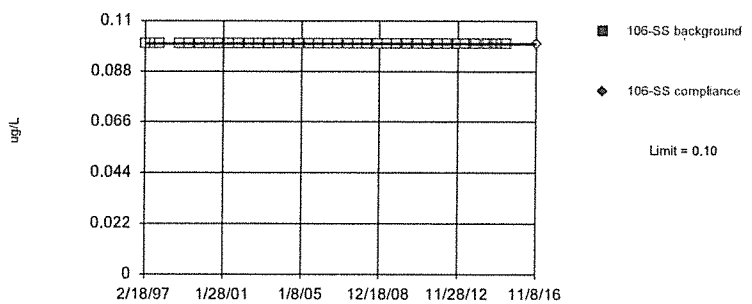
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

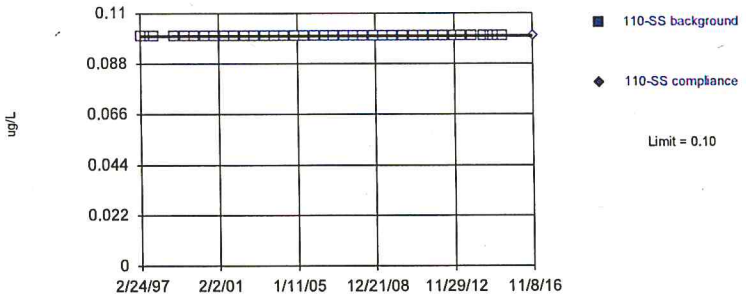
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

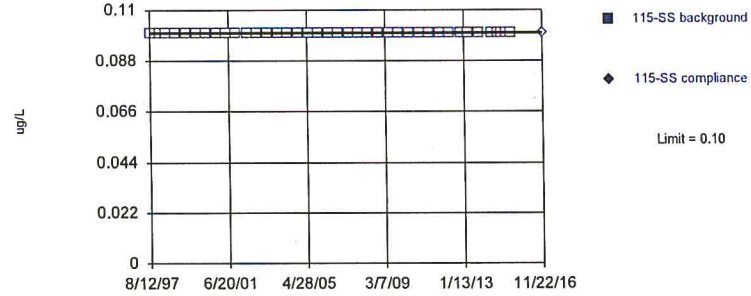
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

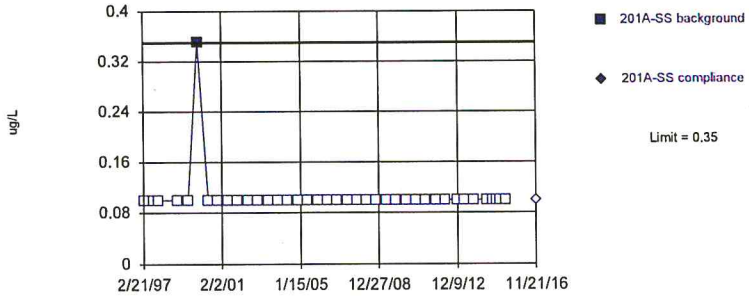
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

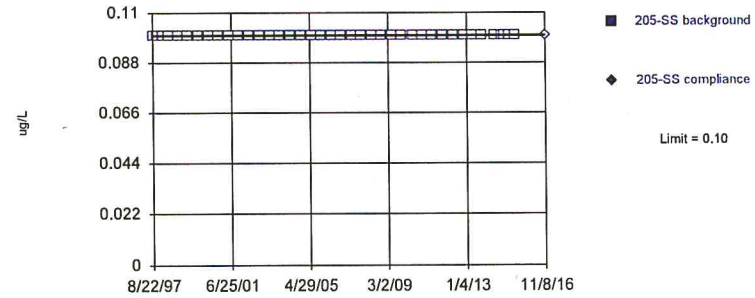
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

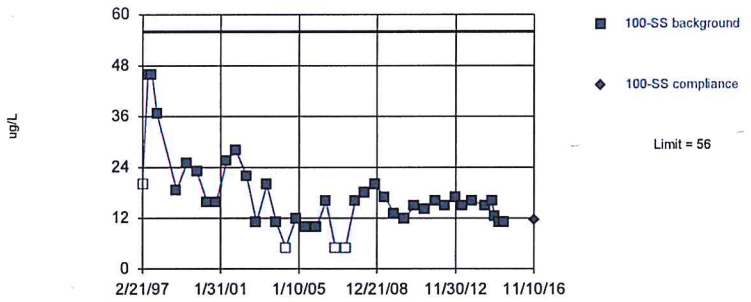
Constituent: Mercury Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.743, Std. Dev.=0.491, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

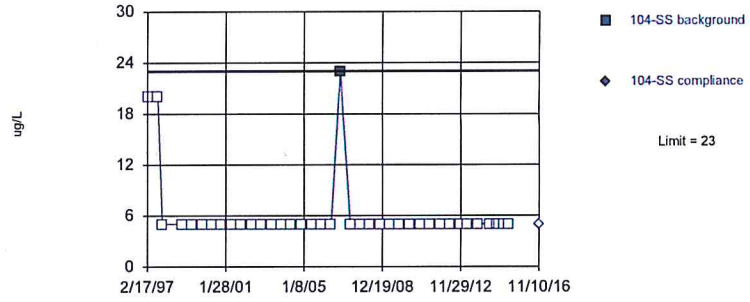
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

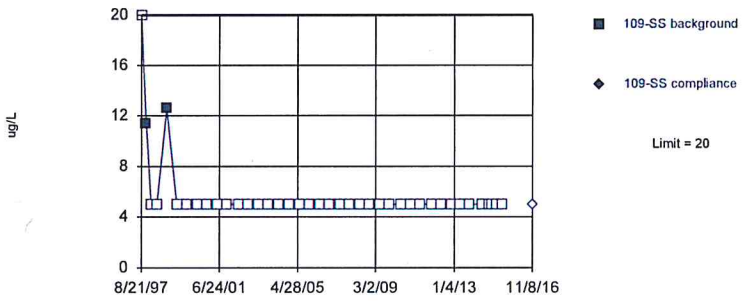
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

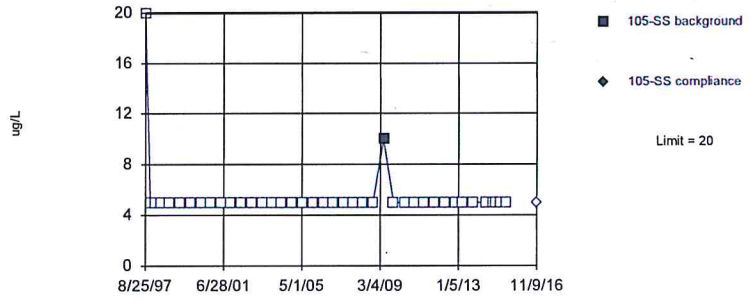
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

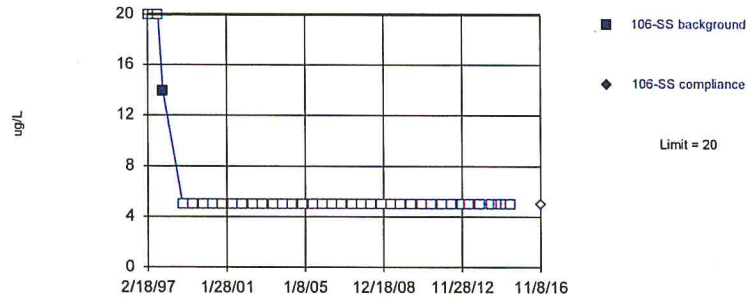
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

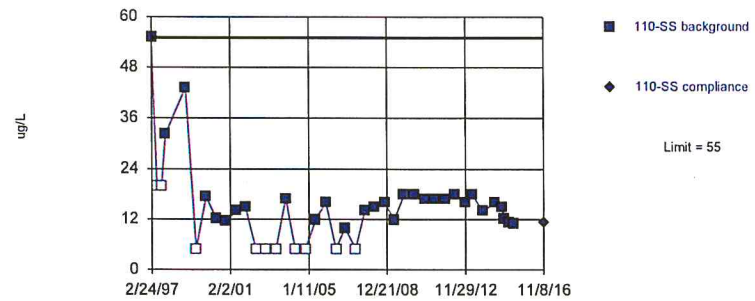
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 25% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

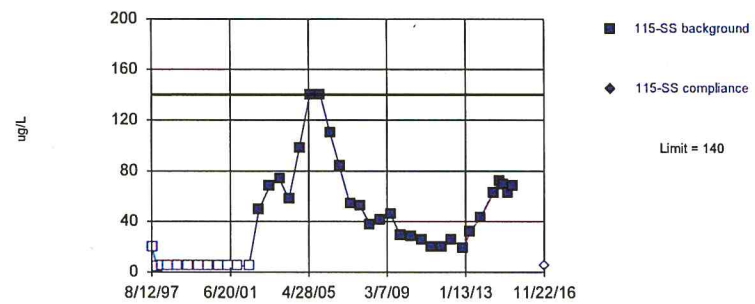
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

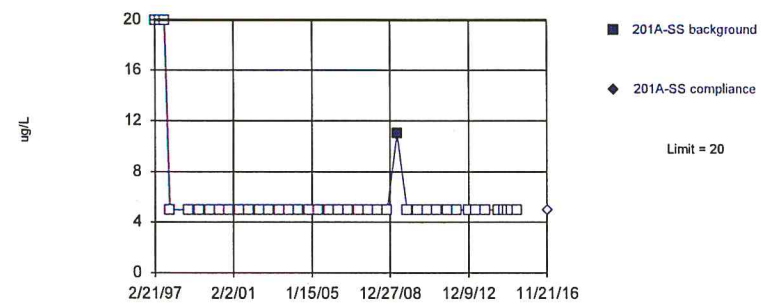
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

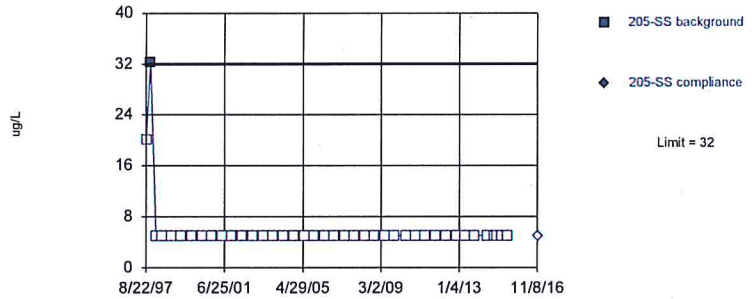
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

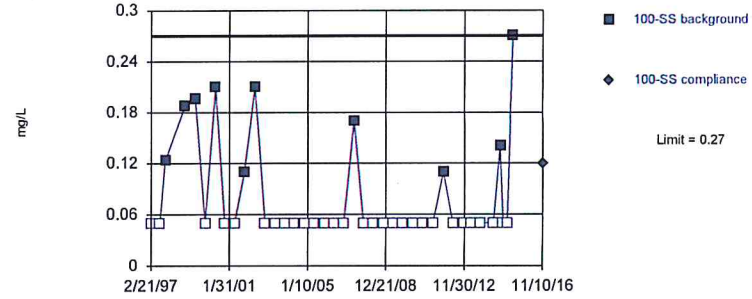
Constituent: Nickel Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

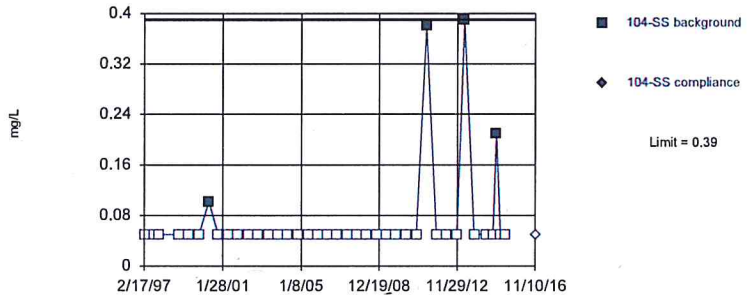
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

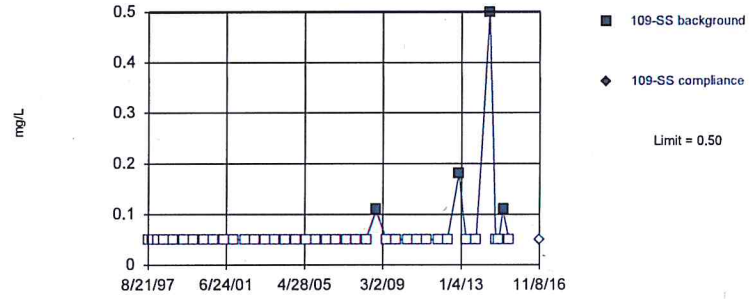
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

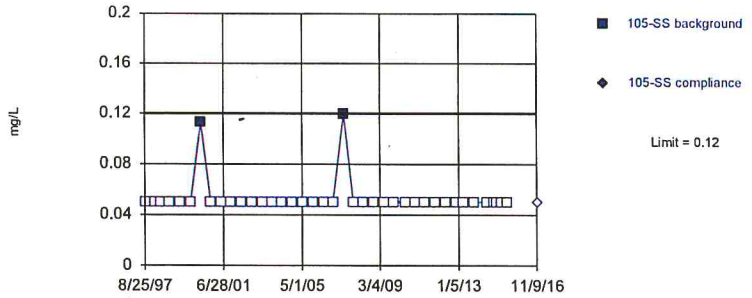
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

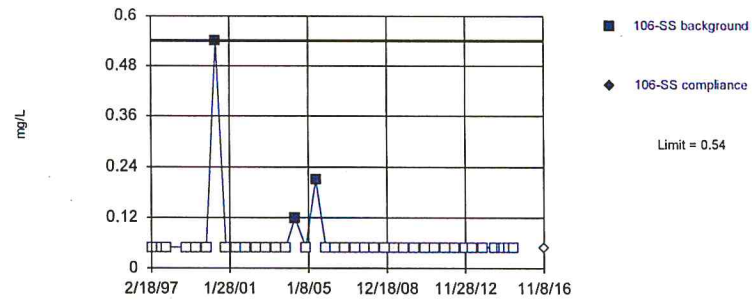
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

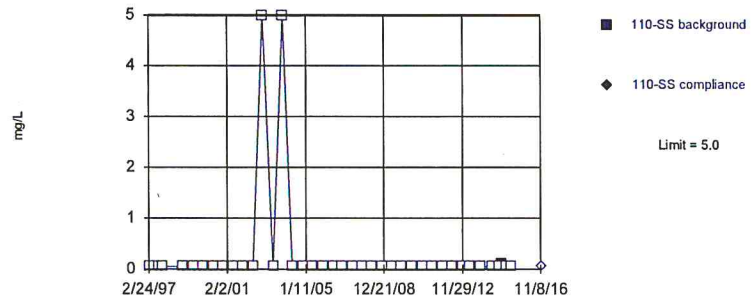
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

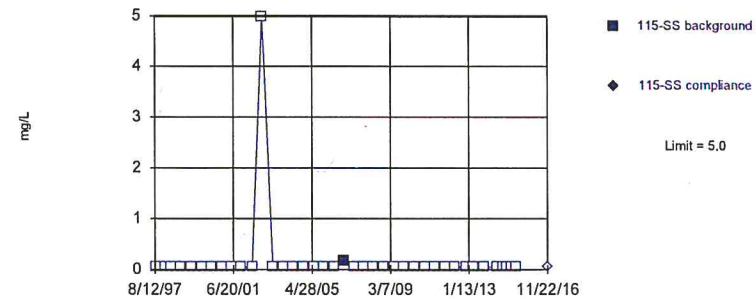
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

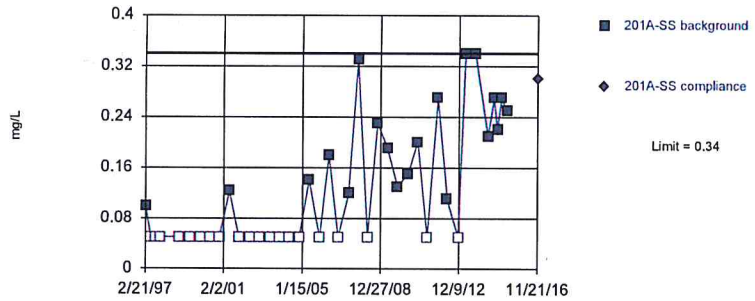
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

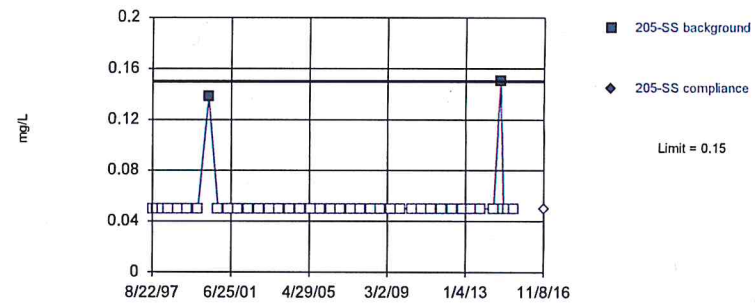
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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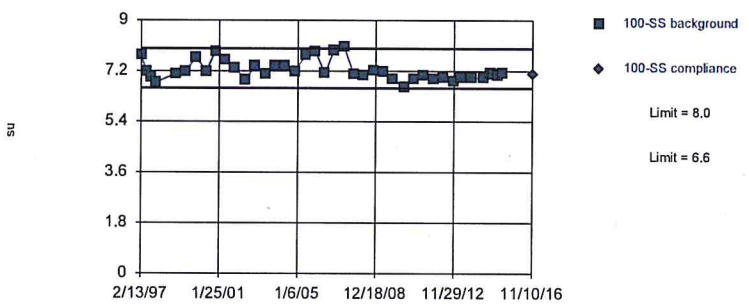
Within Limits

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 0.01 alpha level. Limits are highest and lowest of 40 background values. Well-constituent pair annual alpha = 0.009204. Individual comparison alpha = 0.002305 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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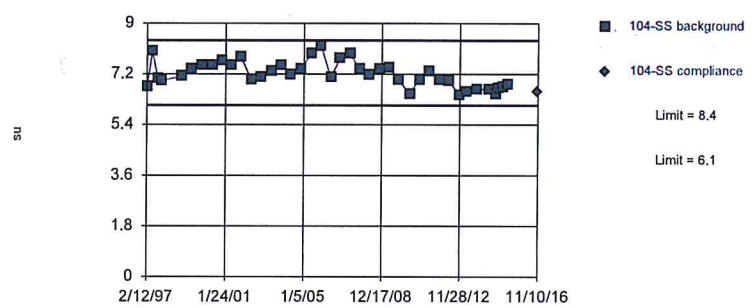
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.061, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9683, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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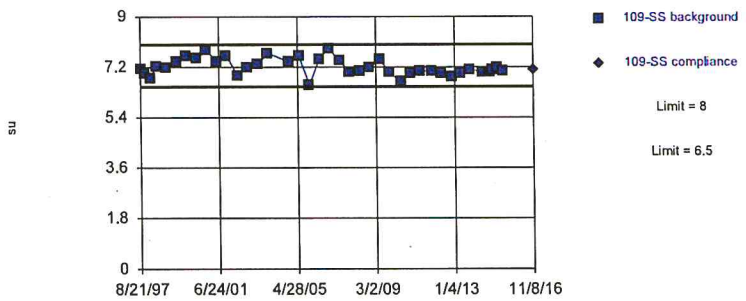
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04155, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 10.9 (5/11/2004).

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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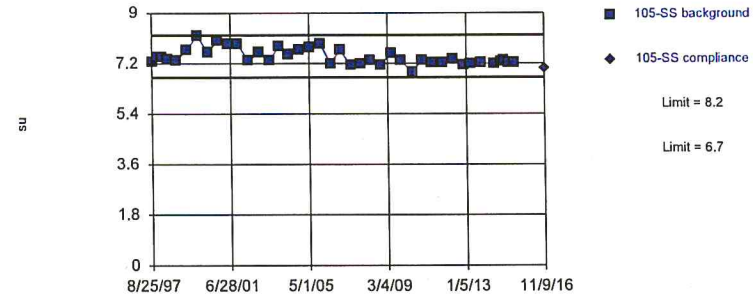
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.005, Std. Dev.=0.0387, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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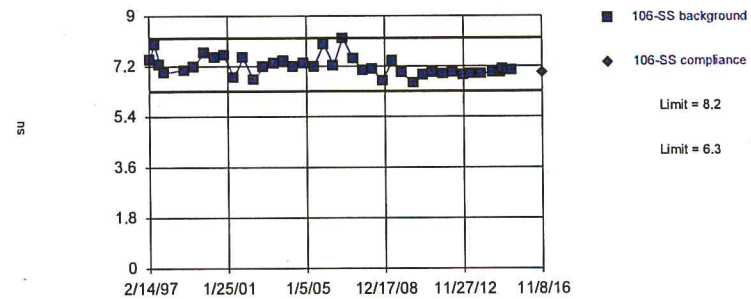
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.971, Std. Dev.=0.04852, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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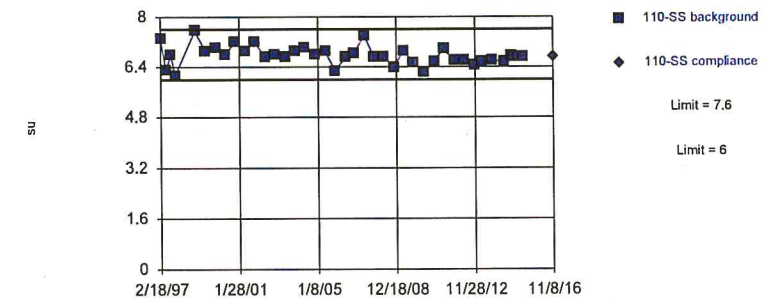
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.911, Std. Dev.=0.04443, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9747, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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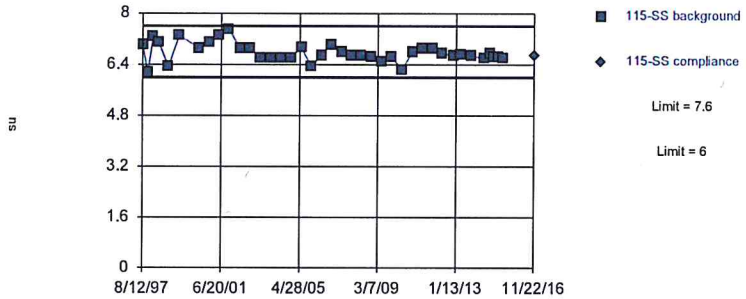
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.911, Std. Dev.=0.04272, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9607, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 7.9 (11/19/1999).

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=1.981, Std. Dev.=0.05083, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

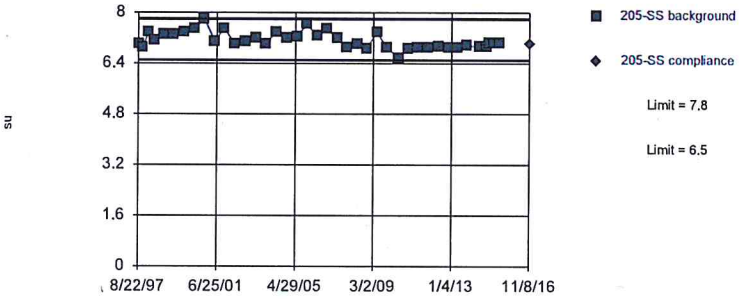
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.964, Std. Dev.=0.03507, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9487, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:14 AM

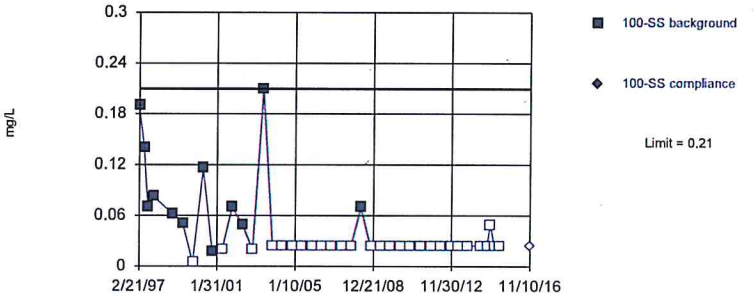
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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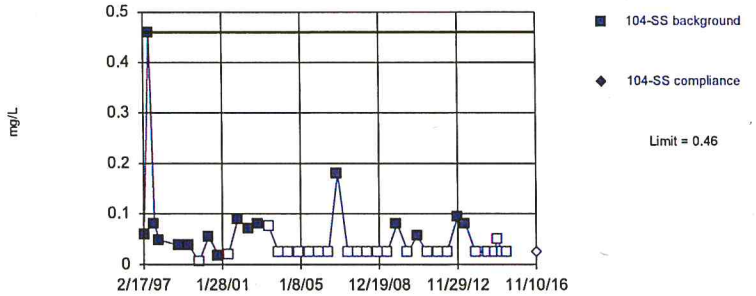
Hollow symbols indicate censored values.

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 40 background values. 60% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

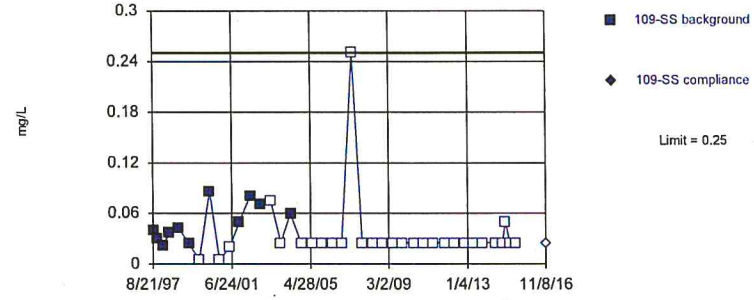
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

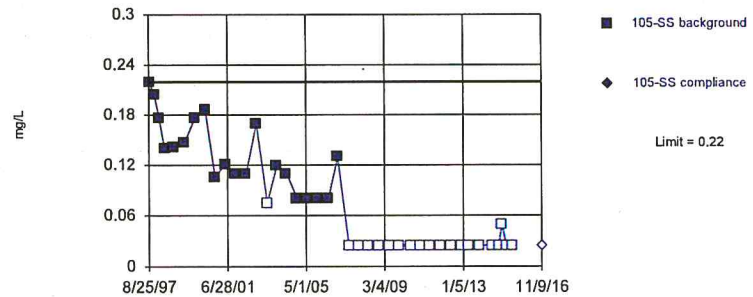
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

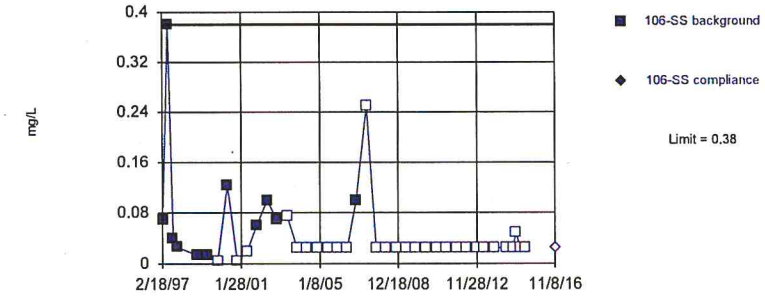
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

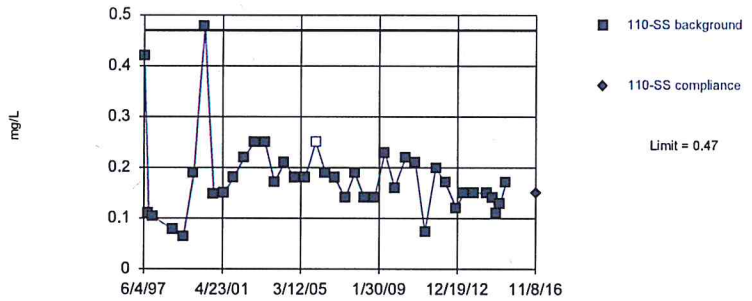
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.798, Std. Dev.=0.3985, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.957, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.4 (2/24/1997).

Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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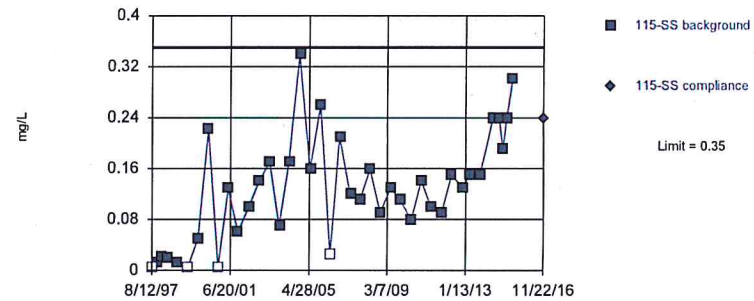
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1277, Std. Dev.=0.08528, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

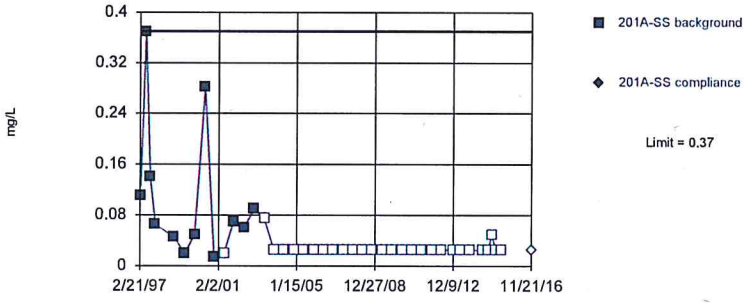
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

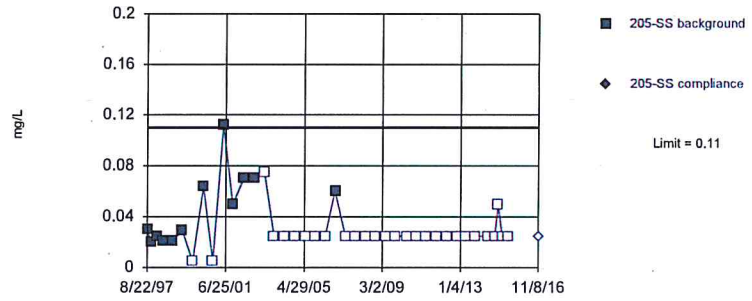
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

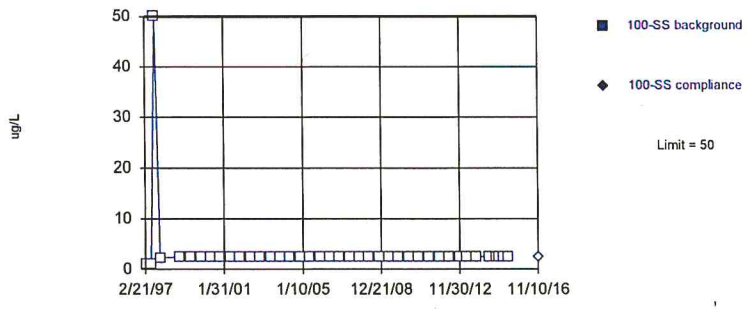
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

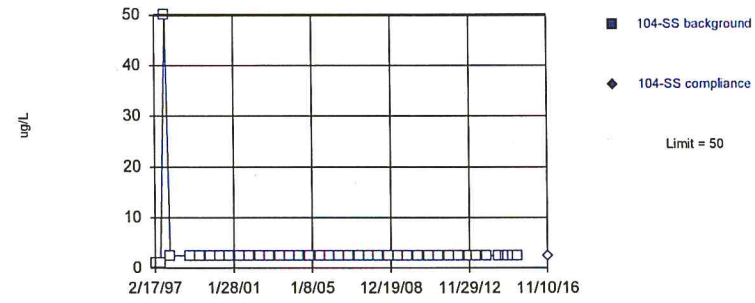
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

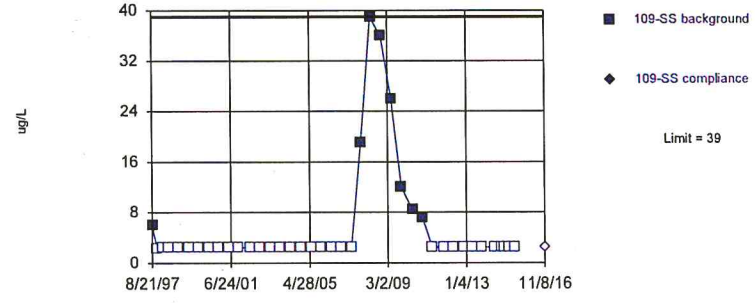
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

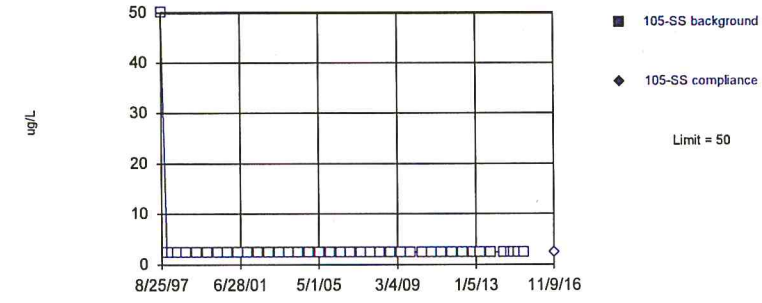
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

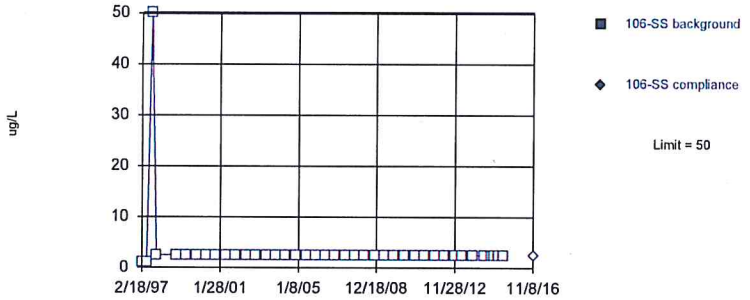
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

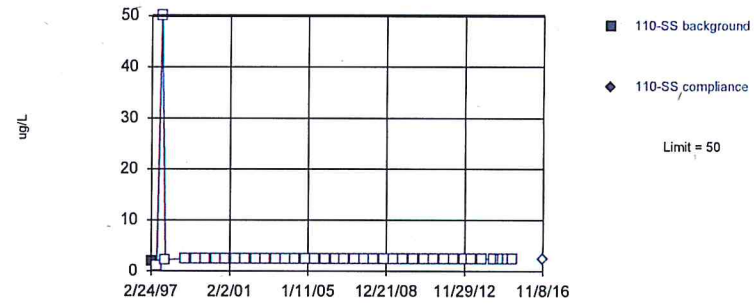
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

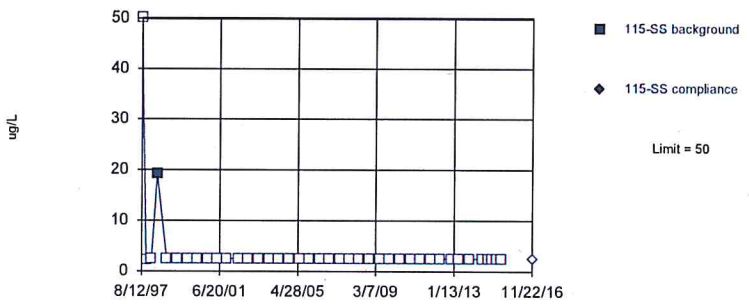
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

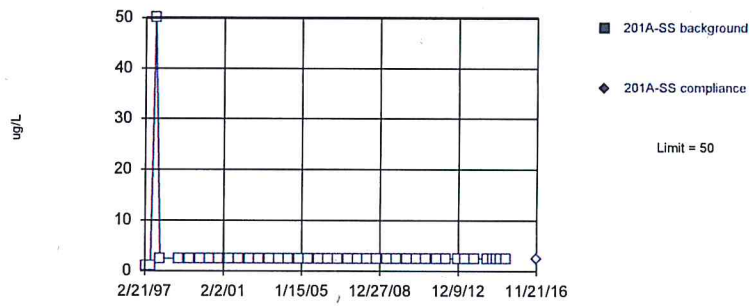
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

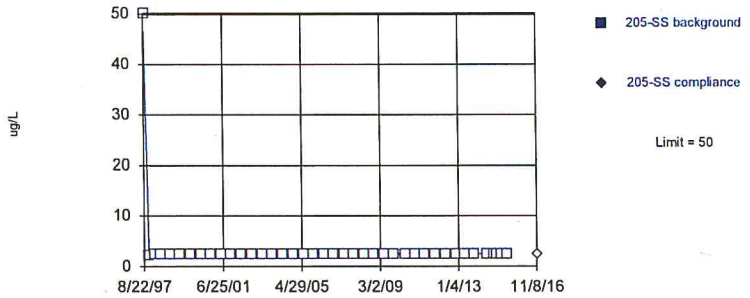
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

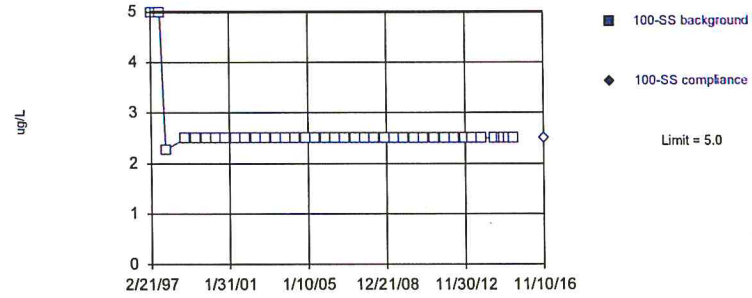
Constituent: Selenium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

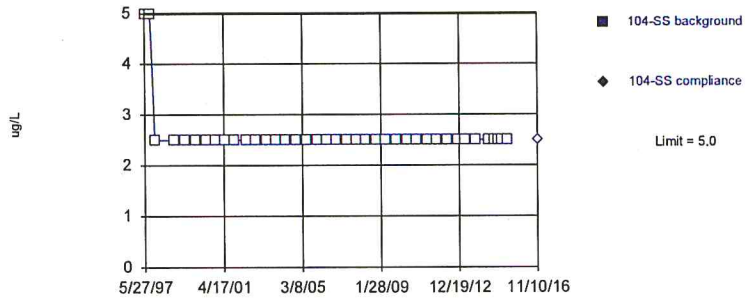
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 39 background values. 100% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

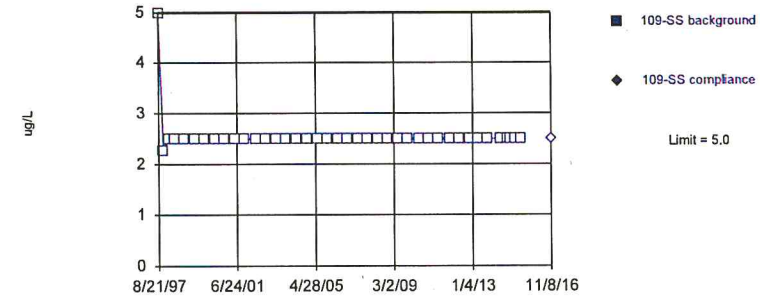
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

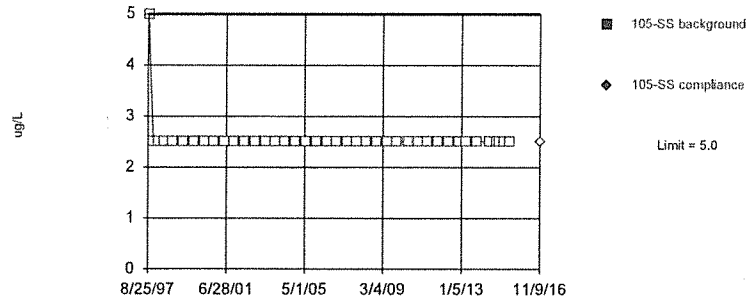
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

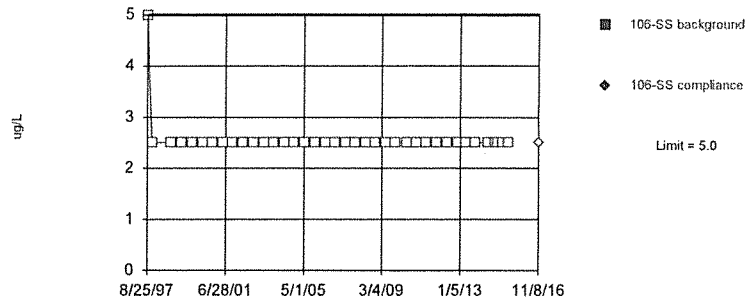
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 38 background values. 100% NDs. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

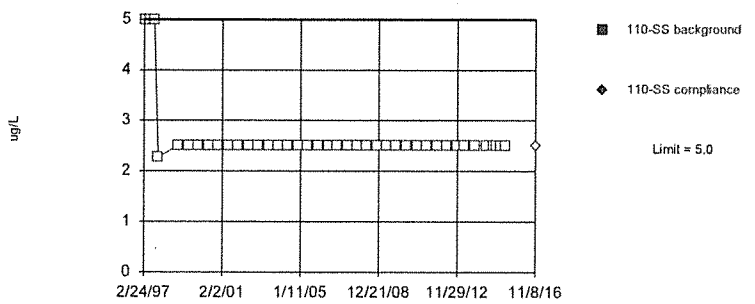
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

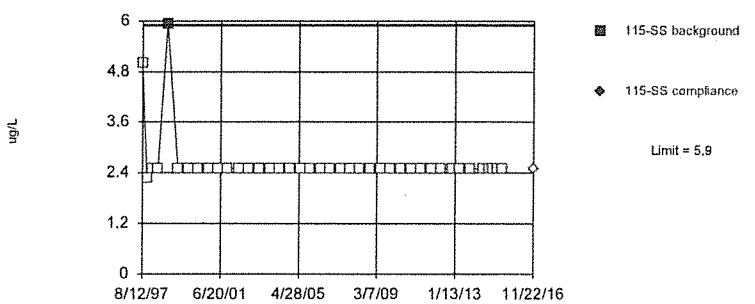
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

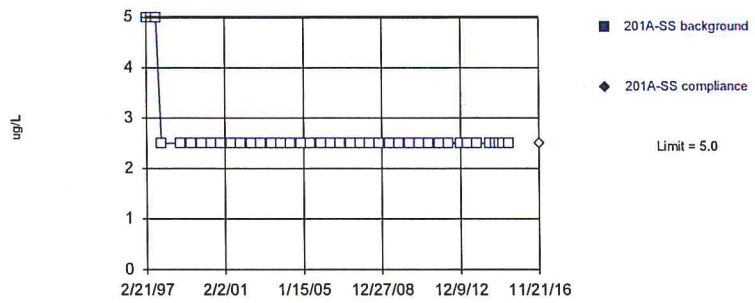
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

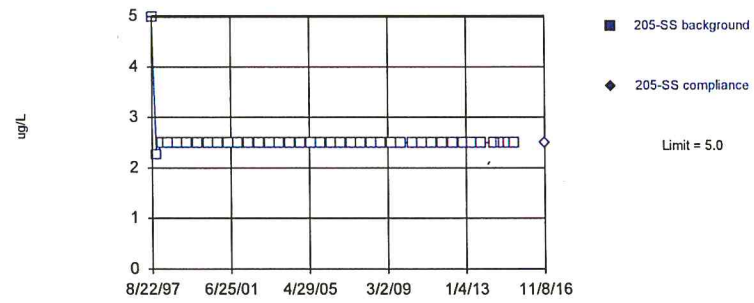
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

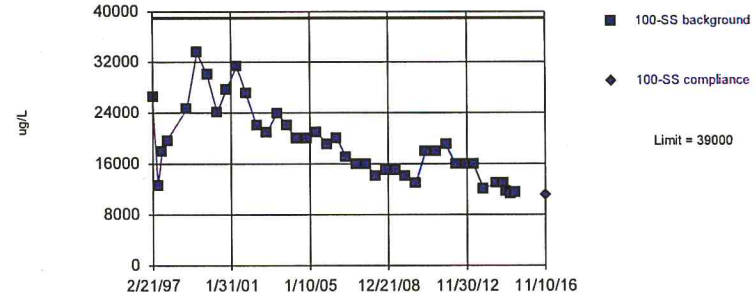
Constituent: Silver Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.808, Std. Dev.=0.295, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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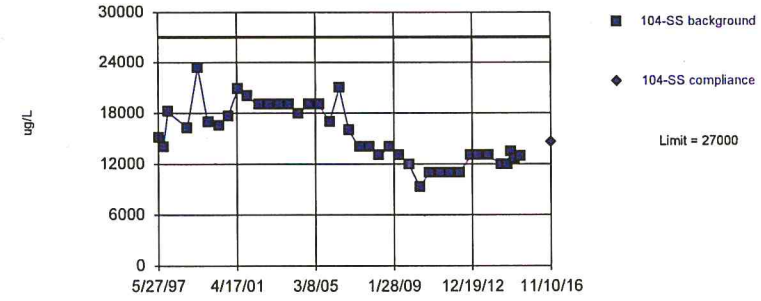
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.617, Std. Dev.=0.2257, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 34800 (2/17/1997).

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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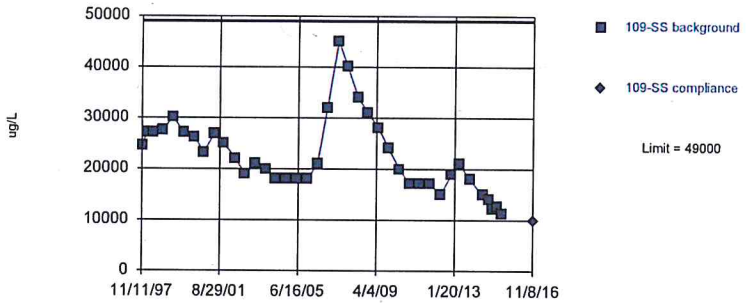
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.978, Std. Dev.=0.3165, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9835, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 68000 (8/21/1997).

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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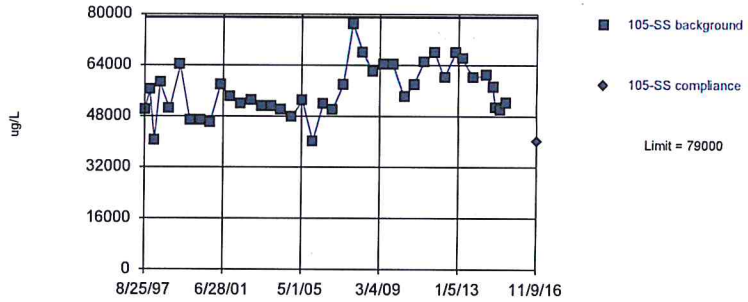
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=38.14, Std. Dev.=1.825, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9771, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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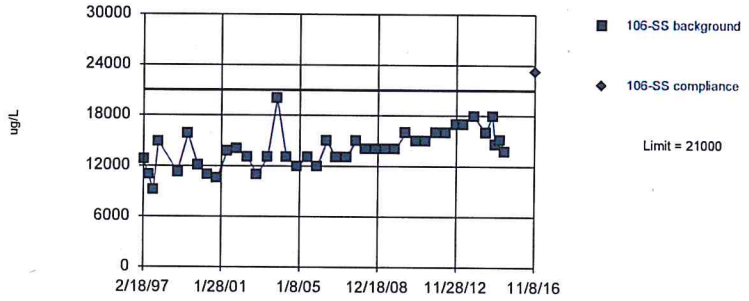
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=118.3, Std. Dev.=9.566, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9881, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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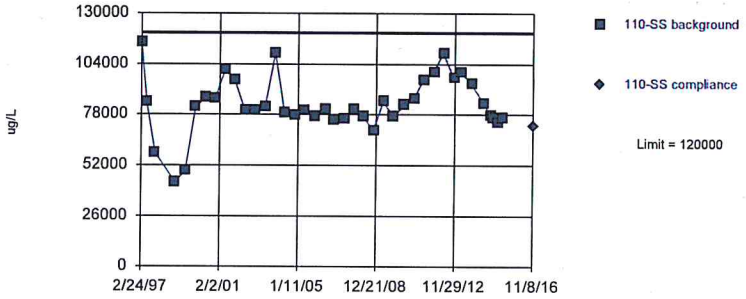
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=83210, Std. Dev.=14554, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9317, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 19000 (8/22/1997).

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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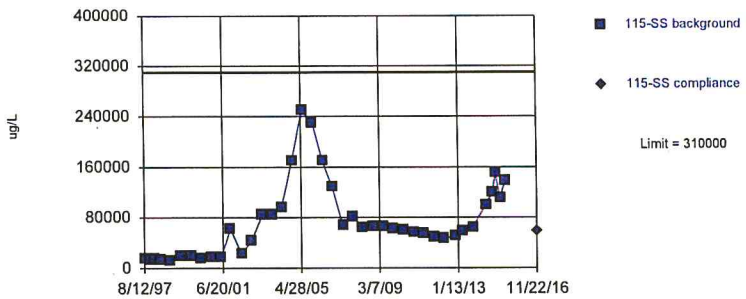
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=39.3, Std. Dev.=10.78, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9386, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

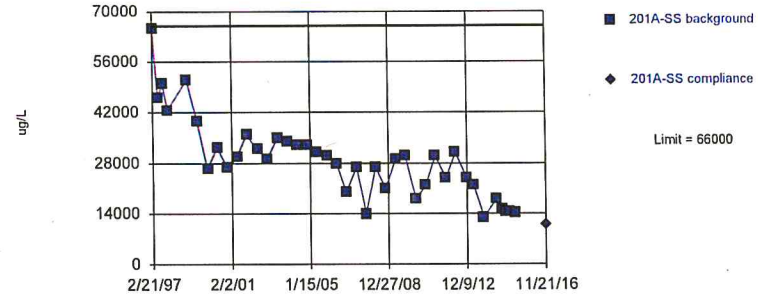
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=30.24, Std. Dev.=3.85, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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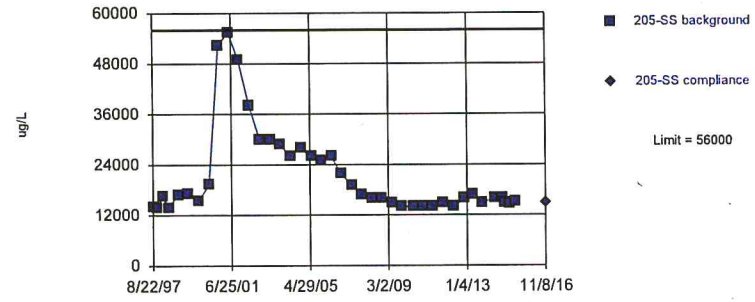
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 1/3/2017 8:14 AM

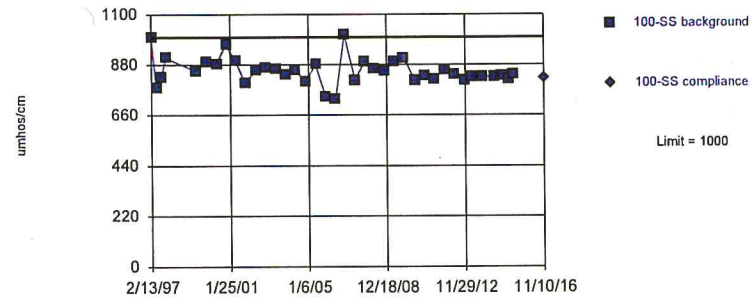
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.746, Std. Dev.=0.06655, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 1080 (11/12/1998).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

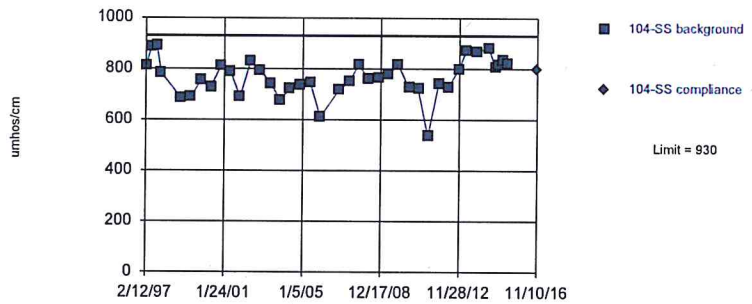
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=4.6e8, Std. Dev.=1.3e8, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 468 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

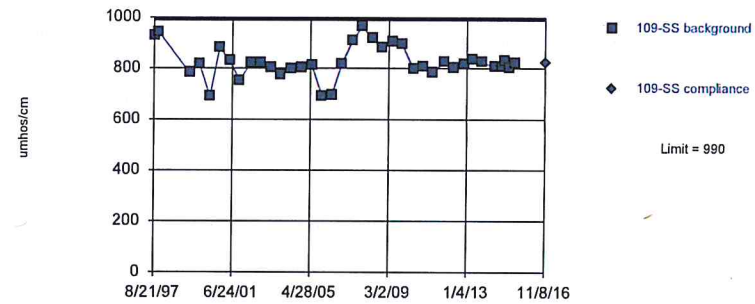
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=824, Std. Dev.=63.94, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Three background outliers were removed: 1270 (2/13/1998); 1260 (5/29/1998); 1190 (11/14/1998).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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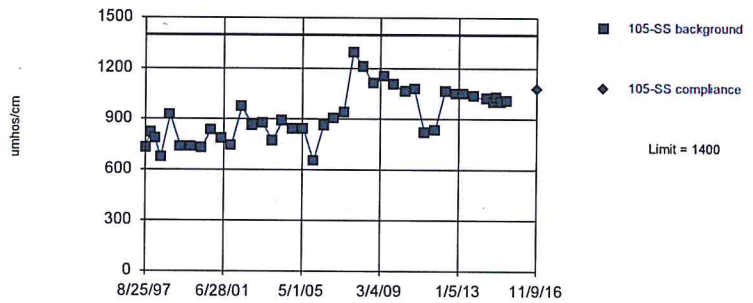
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.811, Std. Dev.=0.1679, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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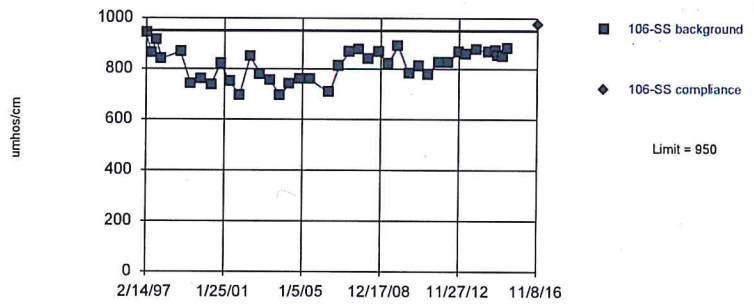
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.6e11, Std. Dev.=1.3e11, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9572, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 595 (11/29/2005).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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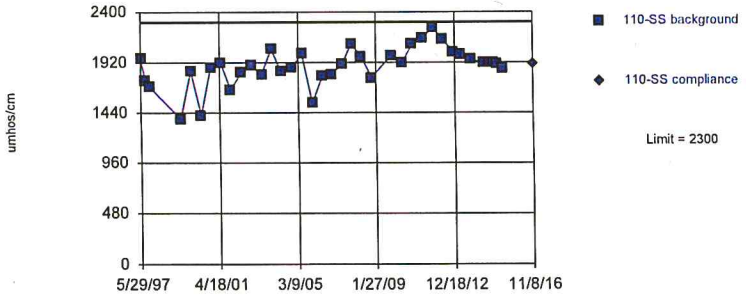
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.8e9, Std. Dev.=1.8e9, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Three background outliers were removed: 1010 (2/18/1997); 1240 (11/13/1998); 2930 (5/7/2009).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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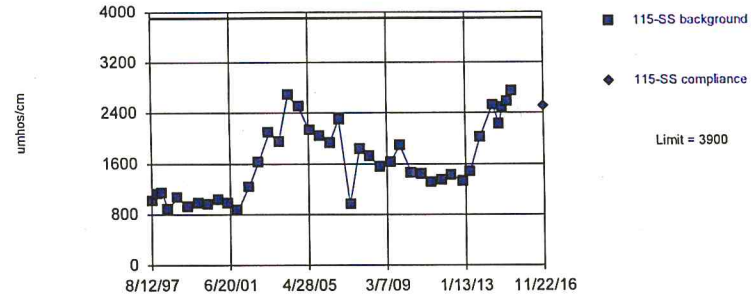
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.338, Std. Dev.=0.3579, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

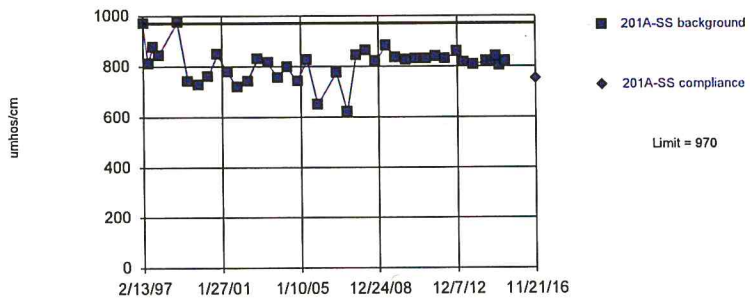
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=660296, Std. Dev.=108124, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 465 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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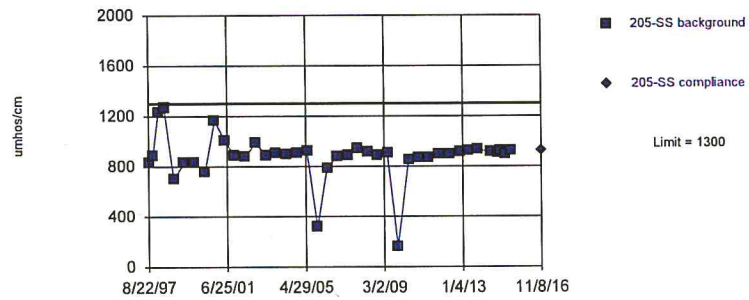
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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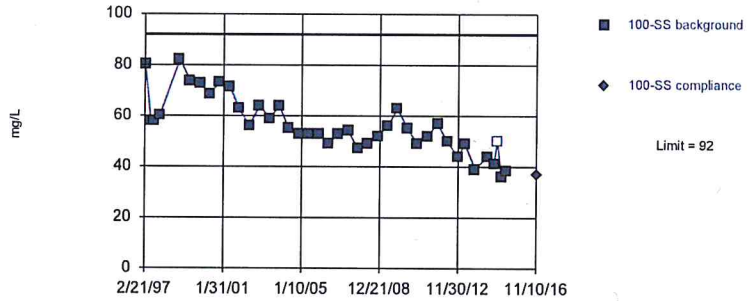
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.009, Std. Dev.=0.1952, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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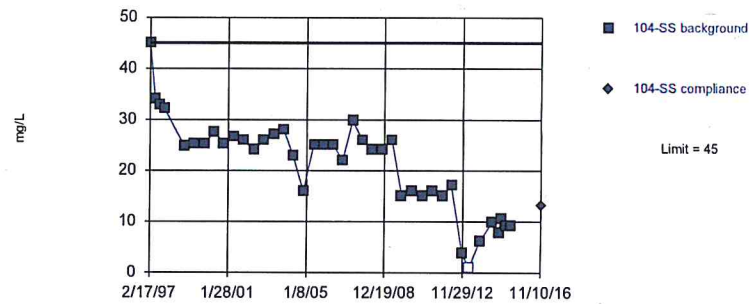
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=21.19, Std. Dev.=9.203, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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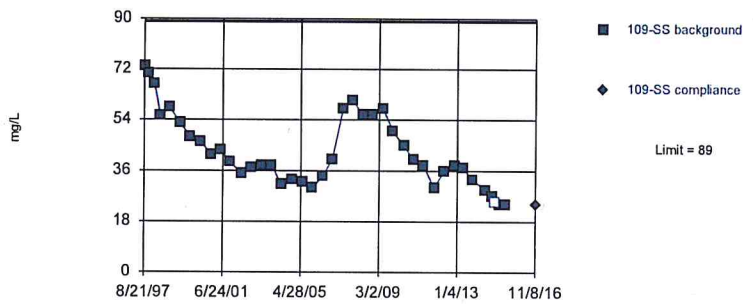
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.71, Std. Dev.=0.2988, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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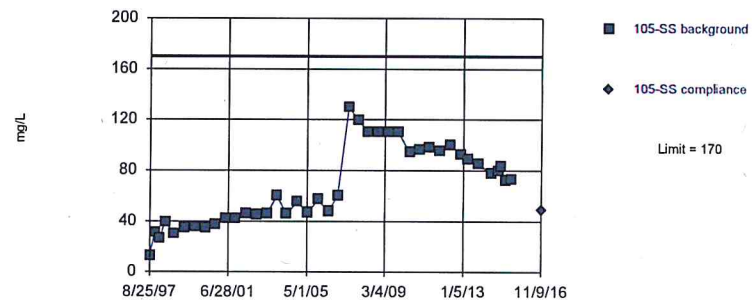
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=8, Std. Dev.=1.922, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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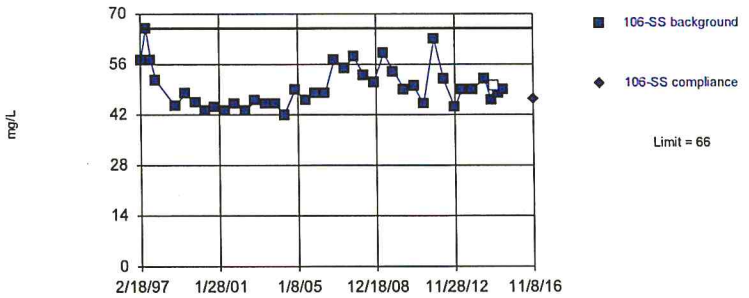
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.901, Std. Dev.=0.1104, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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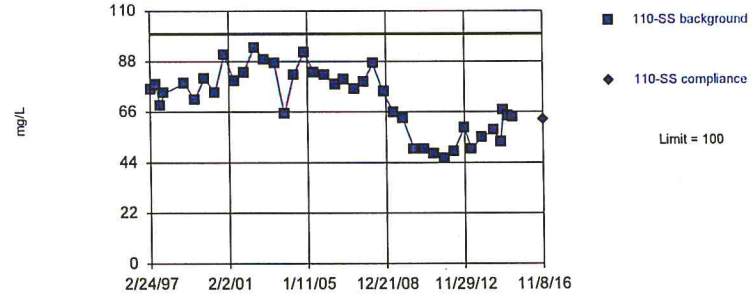
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=5251, Std. Dev.=1909, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9484, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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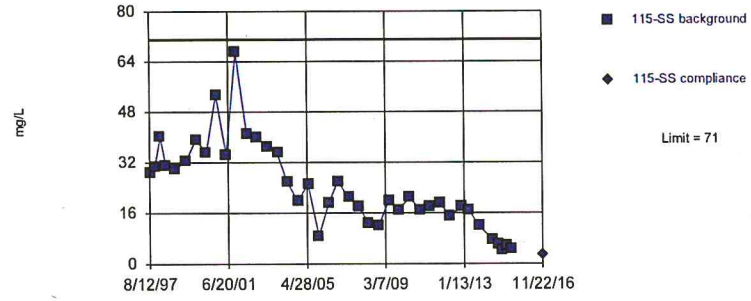
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.715, Std. Dev.=1.41, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.977, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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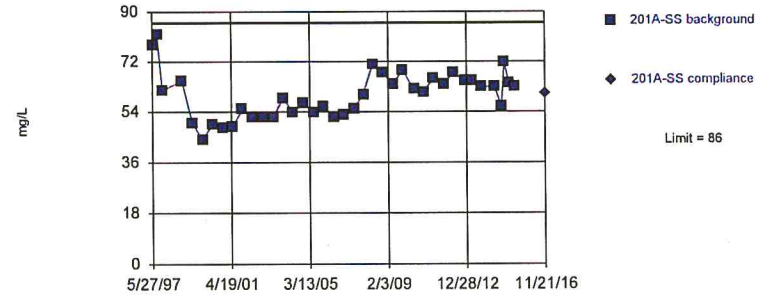
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.087, Std. Dev.=0.1382, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9805, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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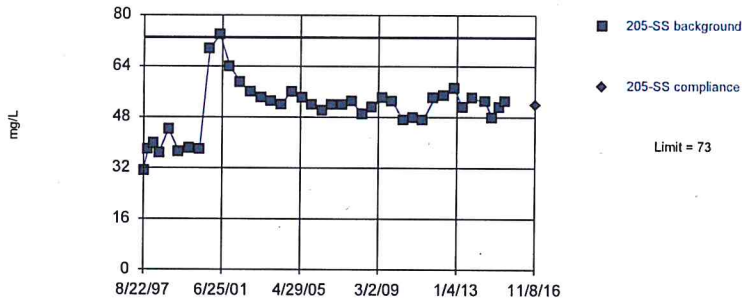
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=50.72, Std. Dev.=8.593, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9306, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 109 (11/20/2014).

Constituent: Sulfate Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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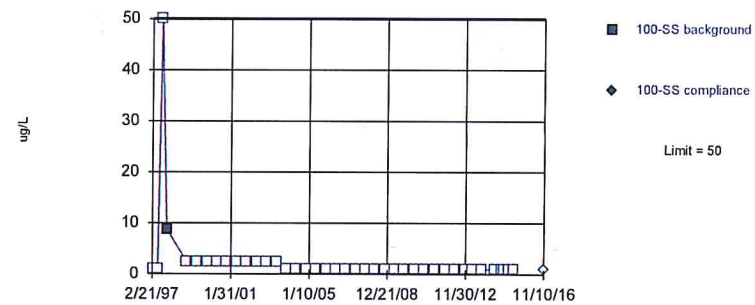
Hollow symbols indicate censored values.

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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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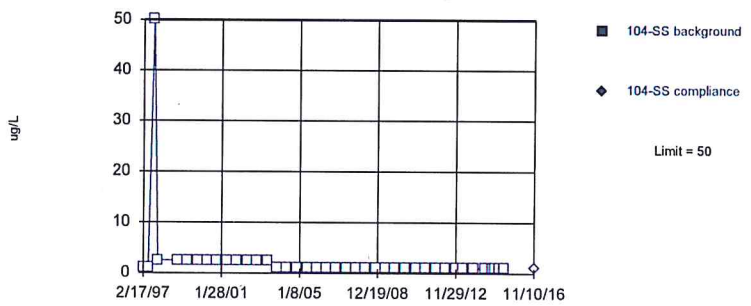
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM

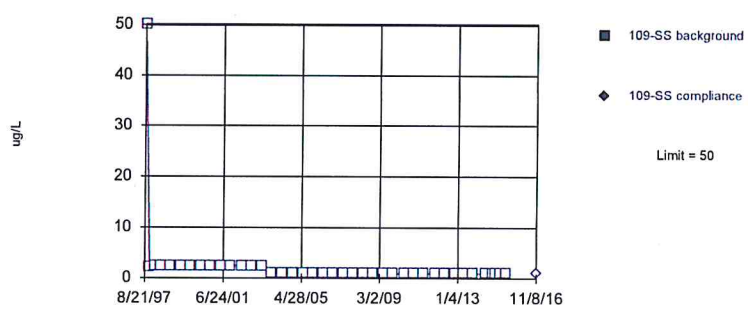
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM

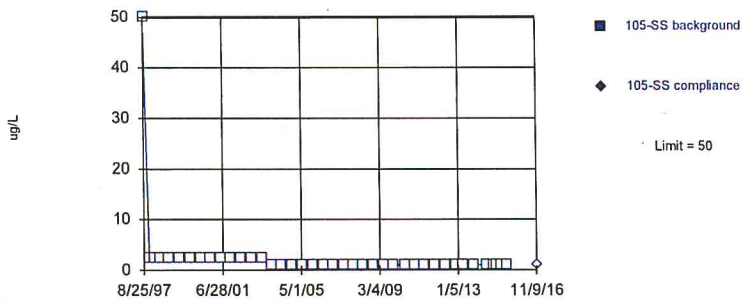
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

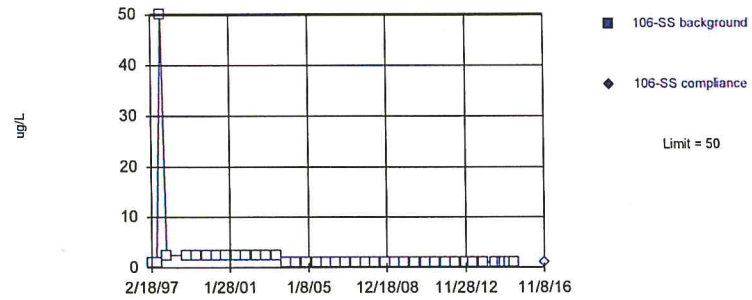
Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

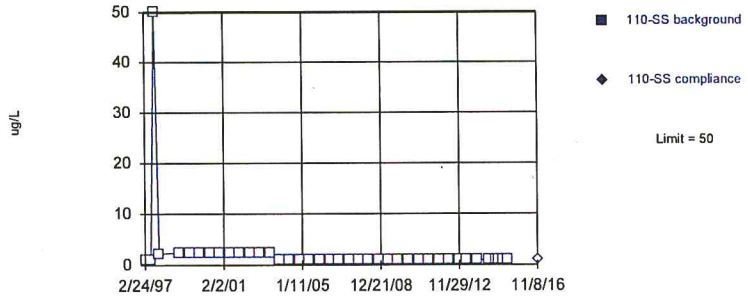
Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

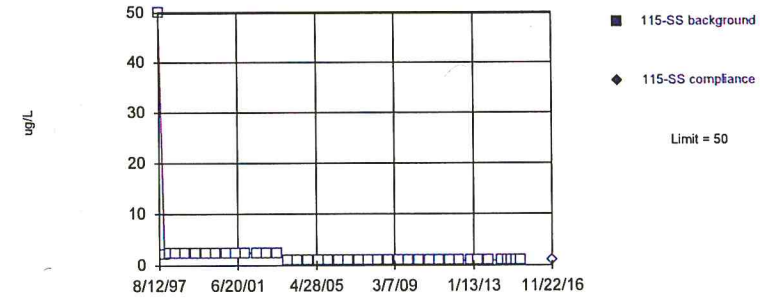
Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

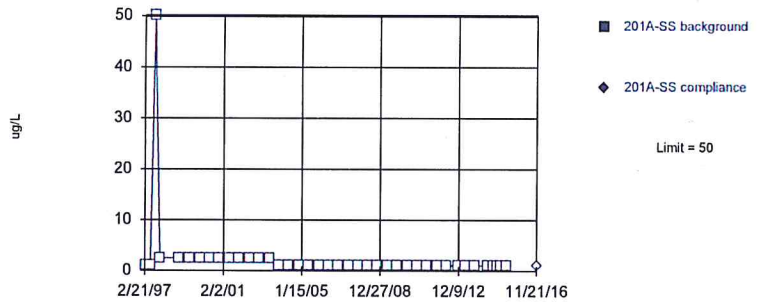
Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 1/3/2017 8:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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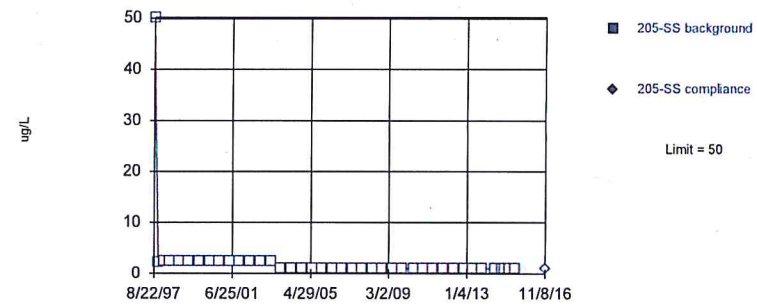
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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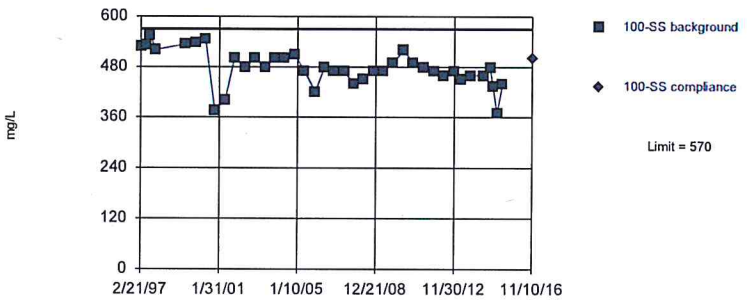
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e8, Std. Dev.=2.8e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 748 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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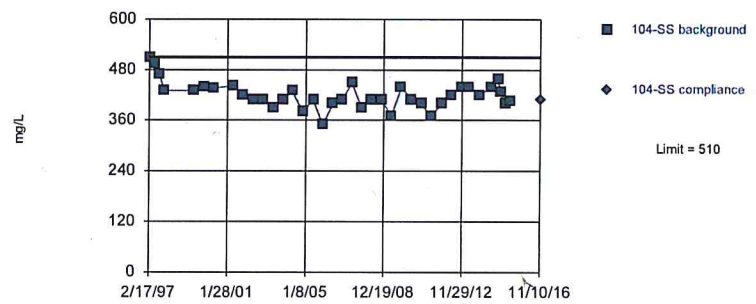
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.039, Std. Dev.=0.07516, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.916. Kappa = 2.635 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 664 (11/11/1998); 257 (11/13/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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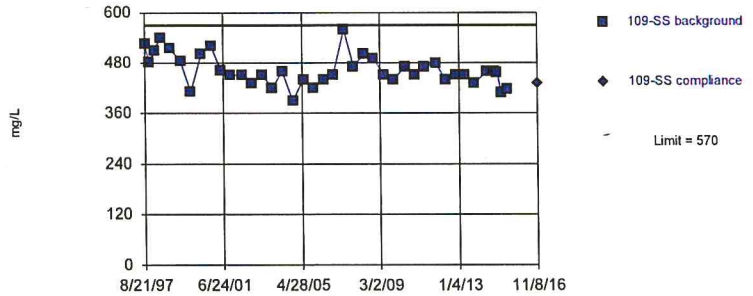
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.134, Std. Dev.=0.07956, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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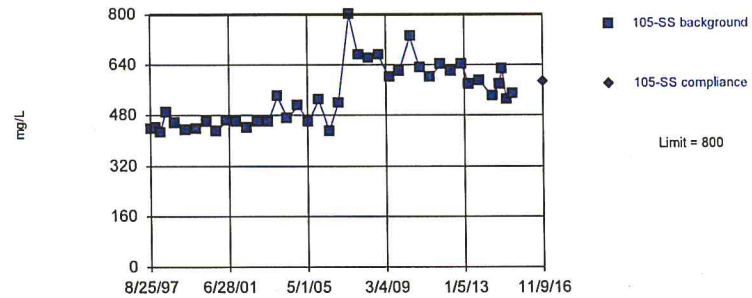
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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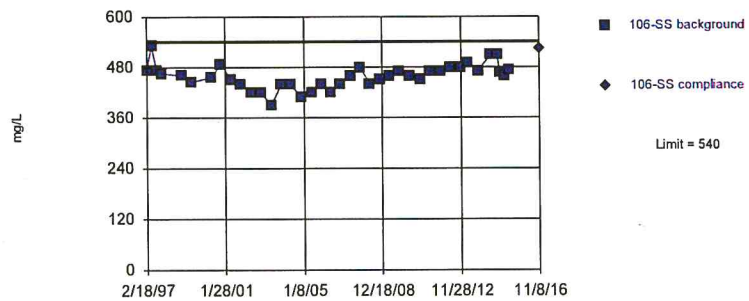
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=21.4, Std. Dev.=0.6626, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9799, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 244 (11/19/1999).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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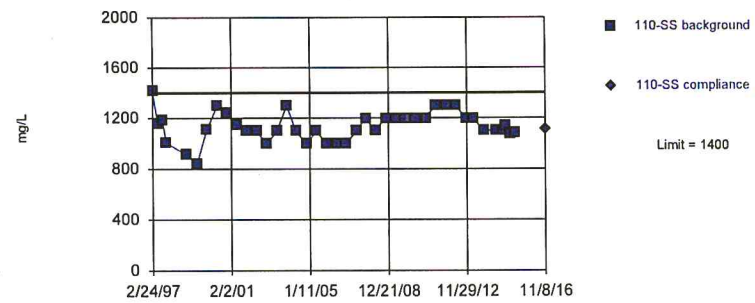
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1135, Std. Dev.=116.3, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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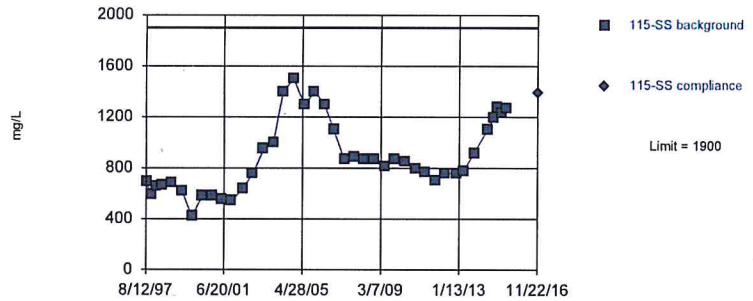
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.742, Std. Dev.=0.3108, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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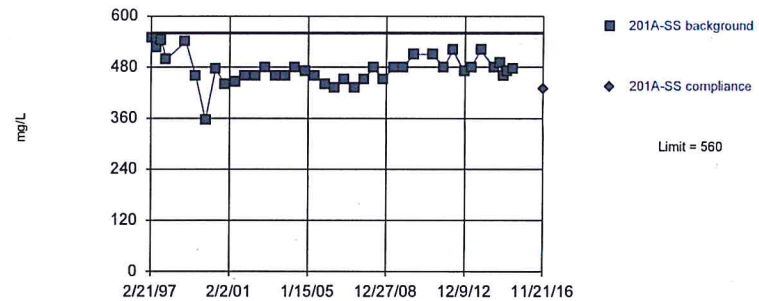
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=226671, Std. Dev.=33845, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 820 (11/10/2010).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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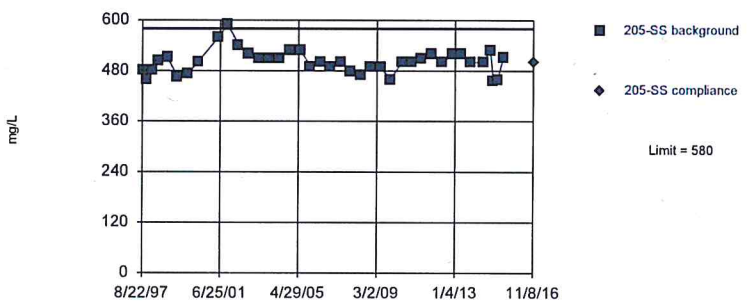
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.217, Std. Dev.=0.05445, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 611 (11/14/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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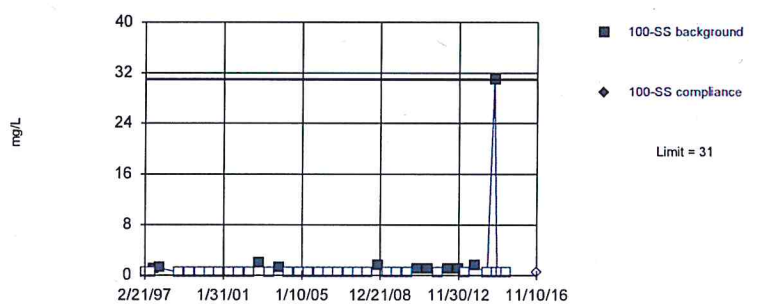
Hollow symbols indicate censored values.

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 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM

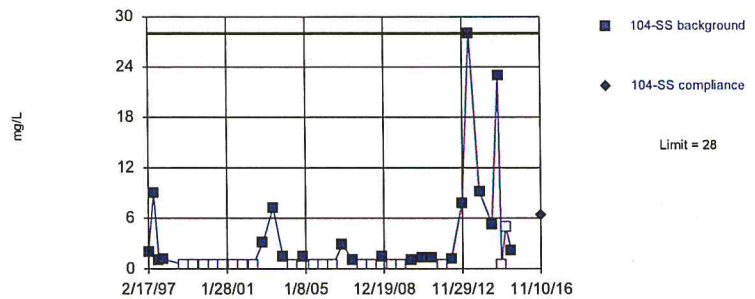
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 47.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

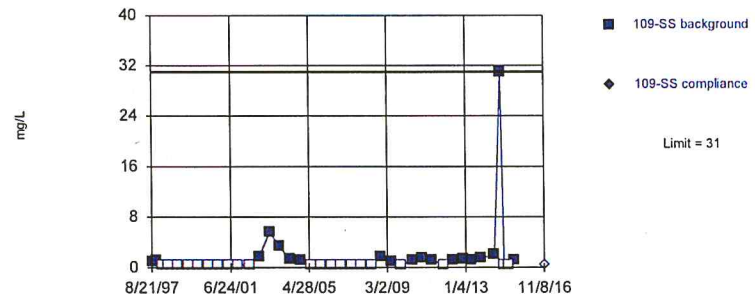
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 52.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

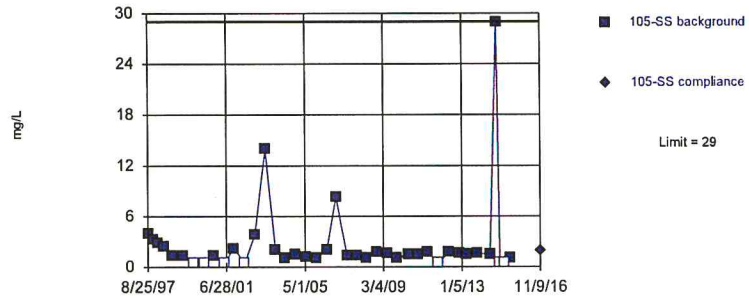
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 17.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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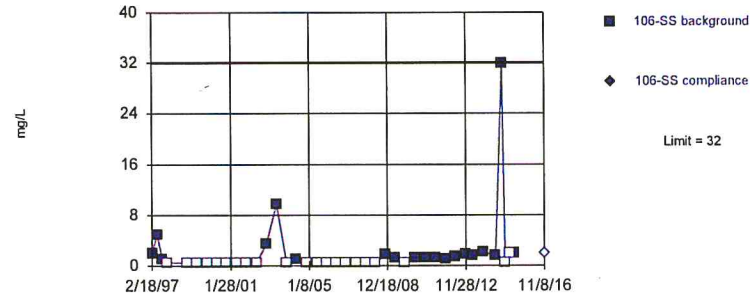
Hollow symbols indicate censored values.

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 40 background values. 52.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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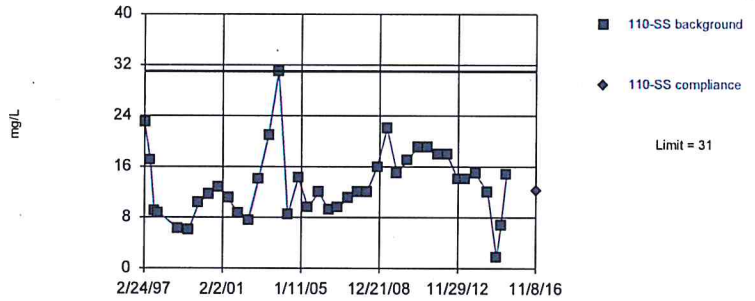
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=3.564, Std. Dev.=0.7759, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9871, critical = 0.917. Kappa = 2.626 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 66 (9/23/2014).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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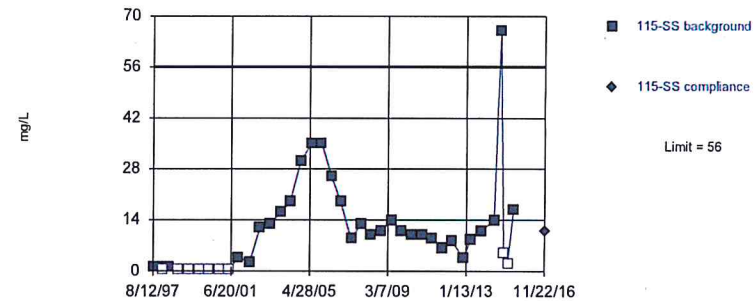
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.813, Std. Dev.=0.7701, n=40, 22.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.935, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

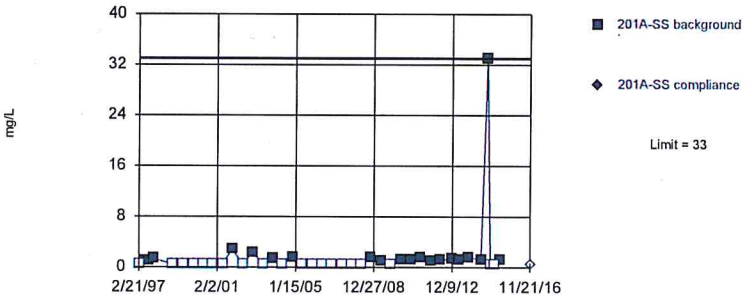
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

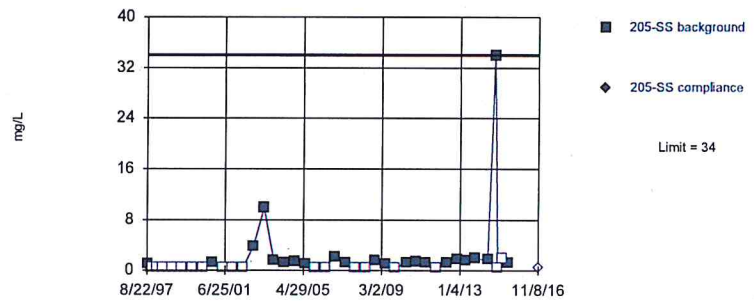
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 0.01 alpha level. Limit is highest of 40 background values. 45% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:15 AM

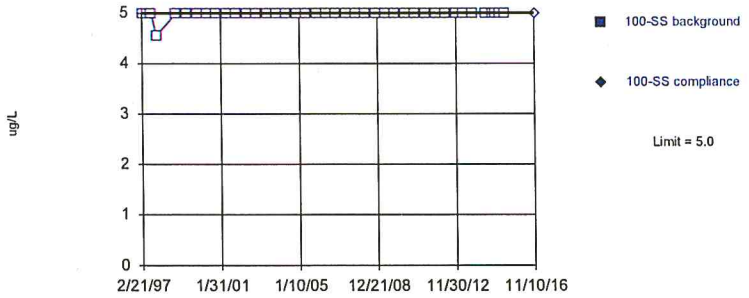
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

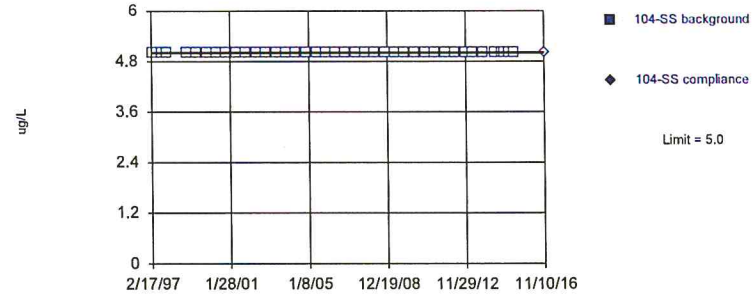
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

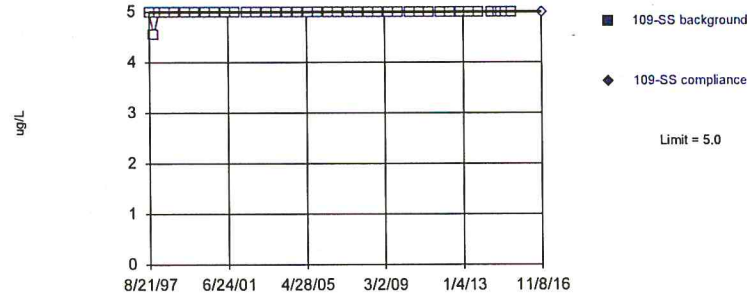
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

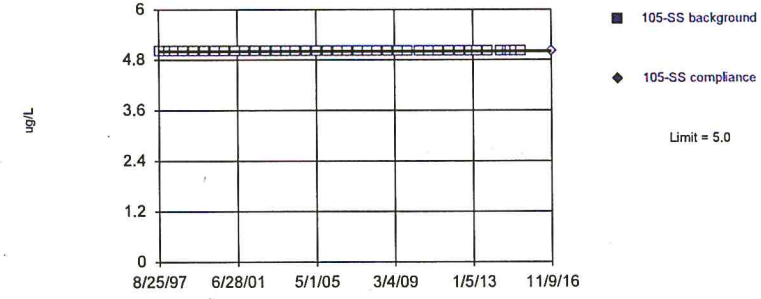
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

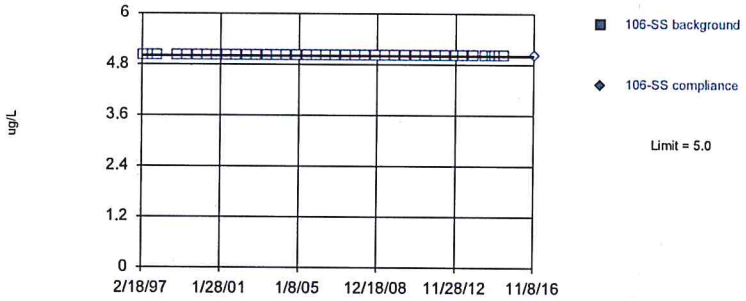
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

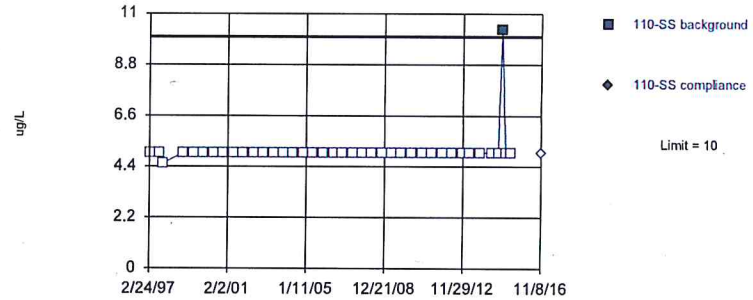
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

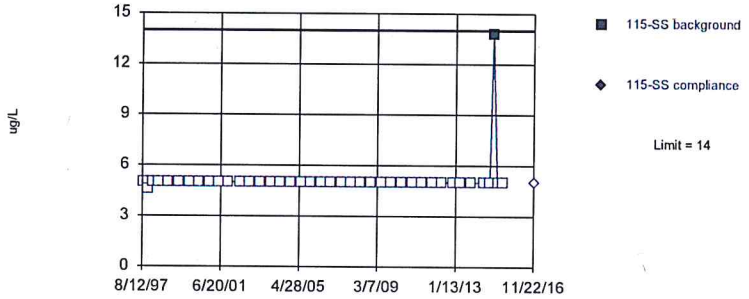
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

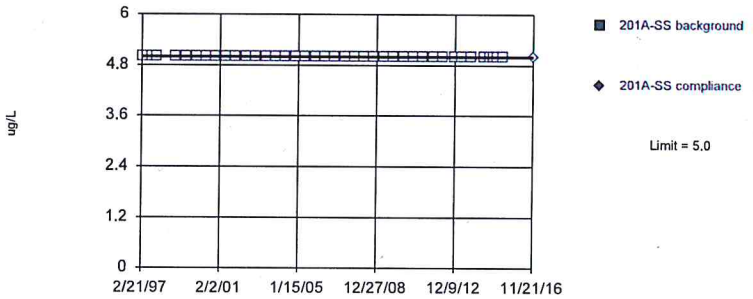
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

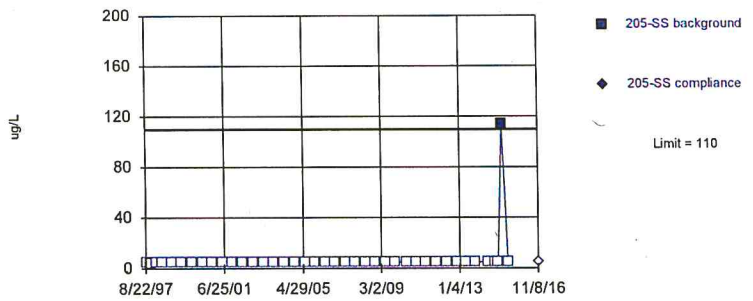
Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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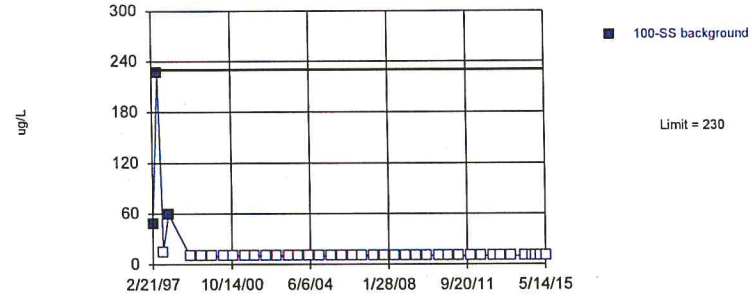
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 100-SS



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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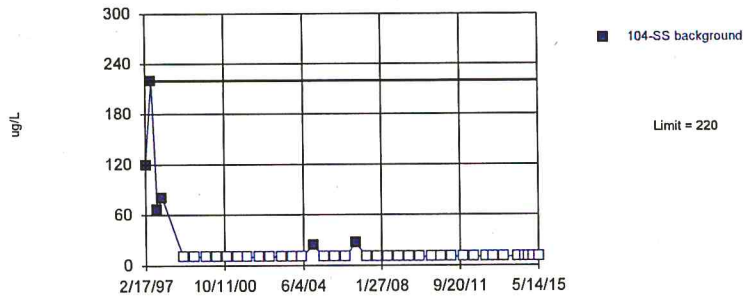
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 104-SS



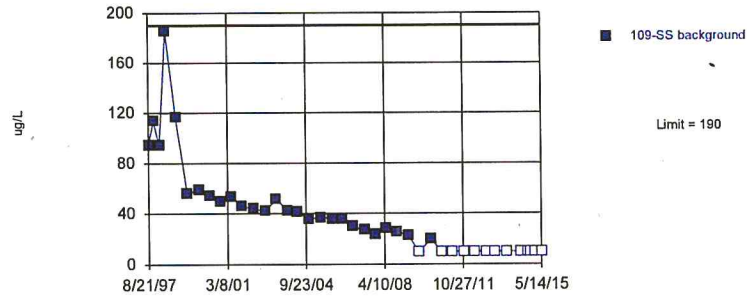
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 109-SS



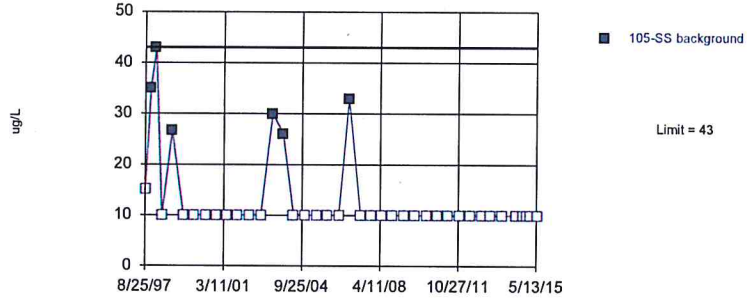
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 105-SS



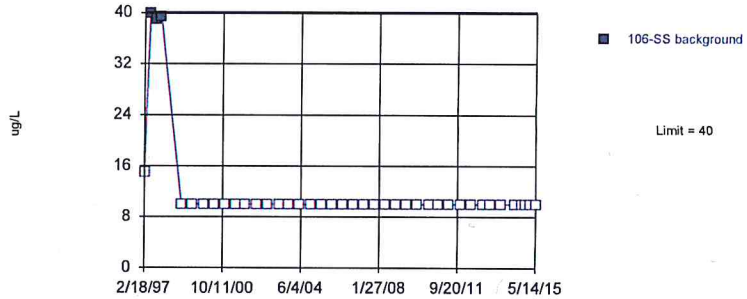
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 106-SS



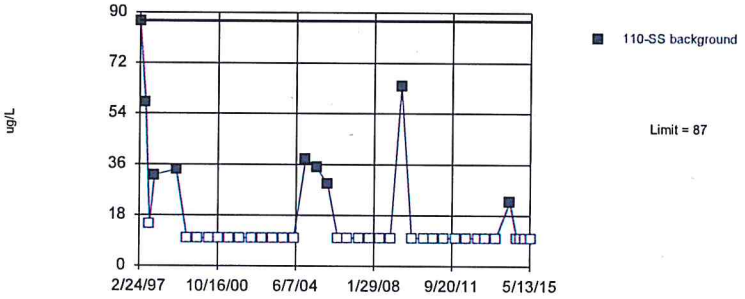
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 110-SS



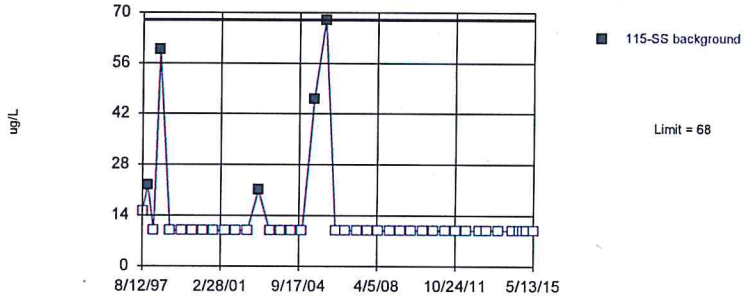
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 77.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 115-SS



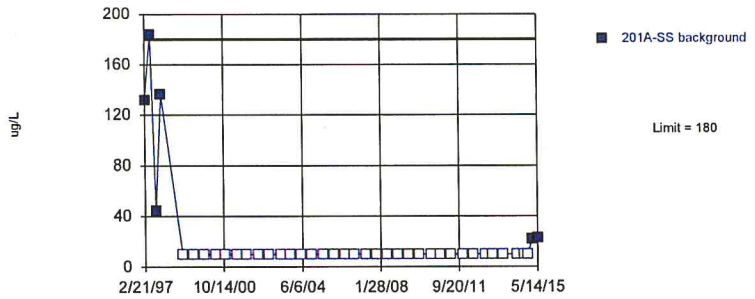
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 201A-SS



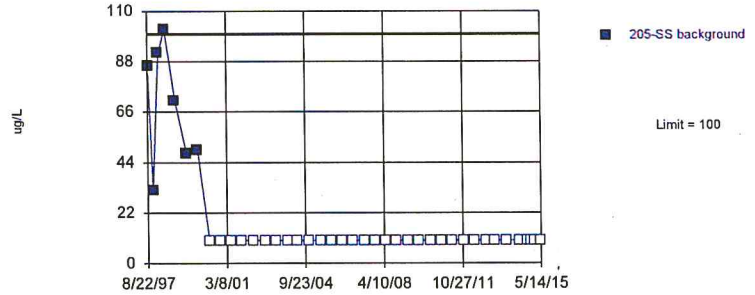
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 205-SS



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

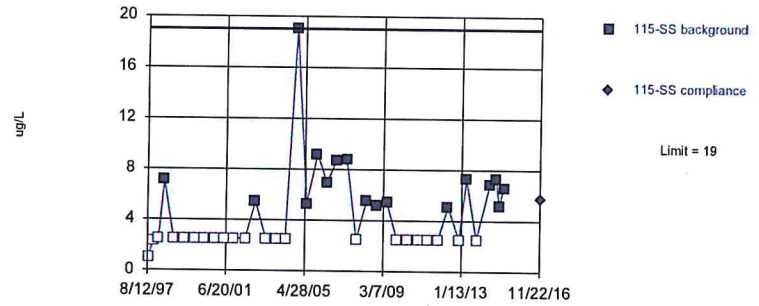
Constituent: Zinc Total Analysis Run 1/3/2017 8:15 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 39 background values. 56.41% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 1/3/2017 8:18 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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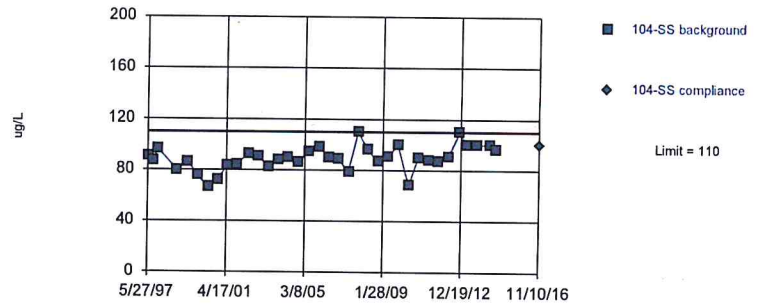
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8075, Std. Dev.=1743, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 1/3/2017 8:20 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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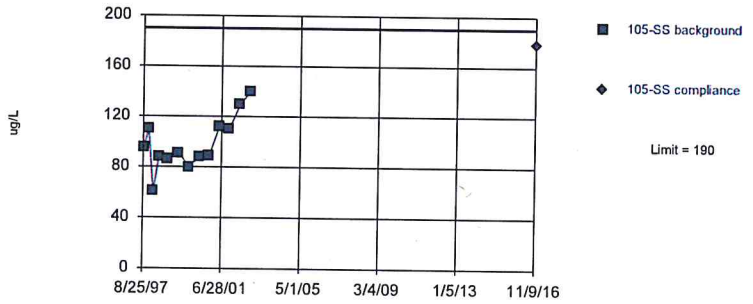
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=4.594, Std. Dev.=0.3338, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9537, critical = 0.866. Kappa = 3.446 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:20 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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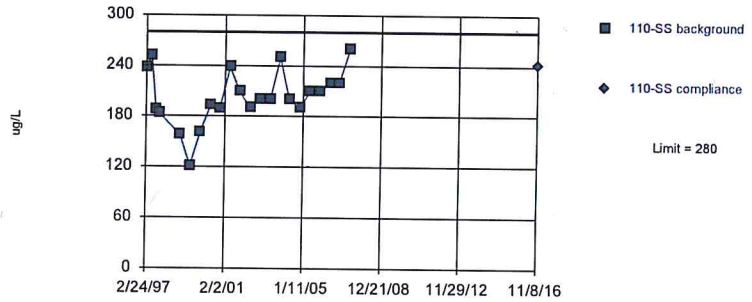
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=42528, Std. Dev.=13153, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9665, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:21 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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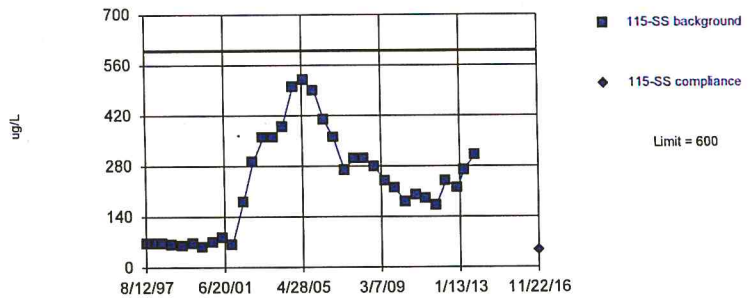
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=228, Std. Dev.=139.9, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:22 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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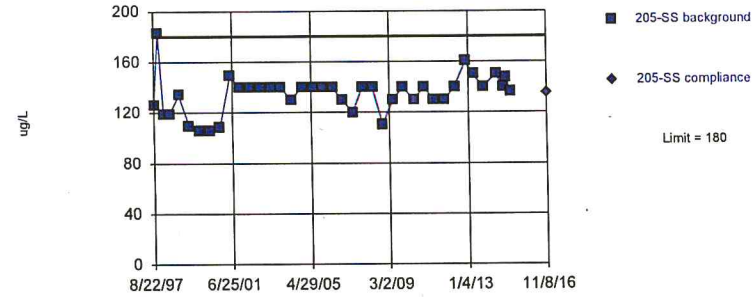
Within Limit

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 39 background values. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 1/3/2017 8:23 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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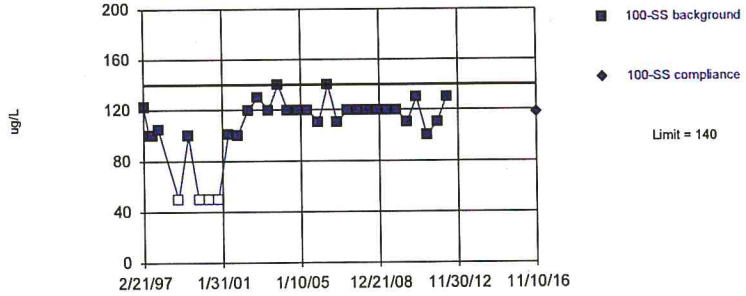
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=1.7e8, Std. Dev.=9.7e7, n=32, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 1/3/2017 8:23 AM

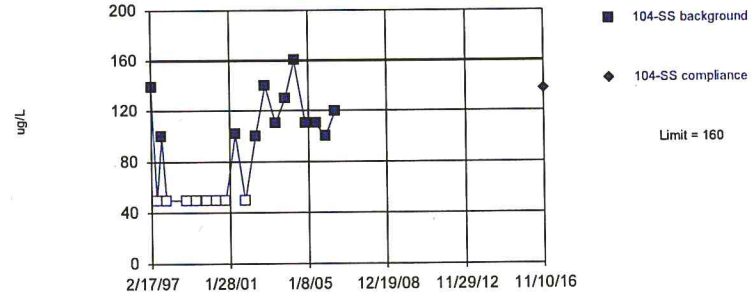
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 20 background values. 40% NDs. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 1/3/2017 8:23 AM

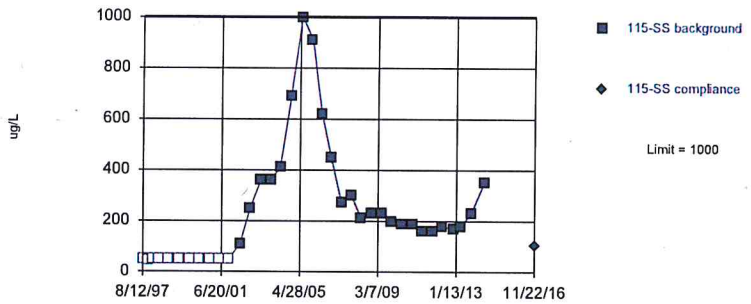
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 36 background values. 30.56% NDs. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 1/3/2017 8:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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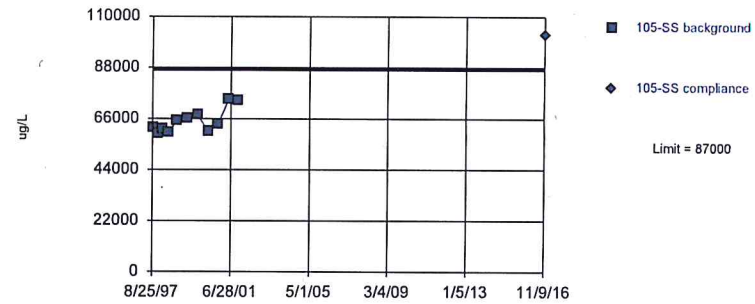
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.08, Std. Dev.=0.07786, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8783, critical = 0.85. Kappa = 3.728 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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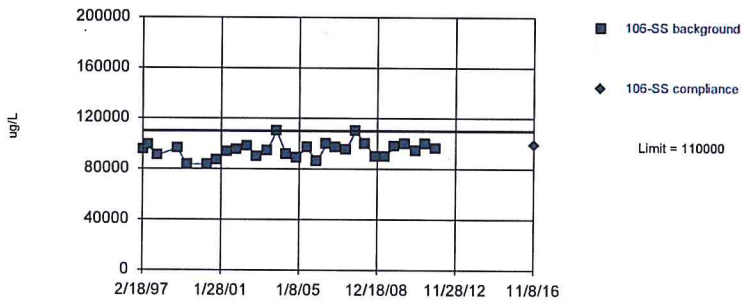
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.06699, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 9000 (11/19/1999).

Constituent: Calcium Total Analysis Run 1/3/2017 8:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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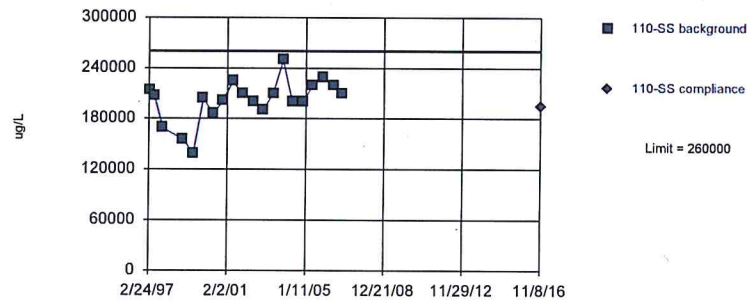
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.6e15, Std. Dev.=2.9e15, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.868. Kappa = 2.957 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 91000 (8/22/1997).

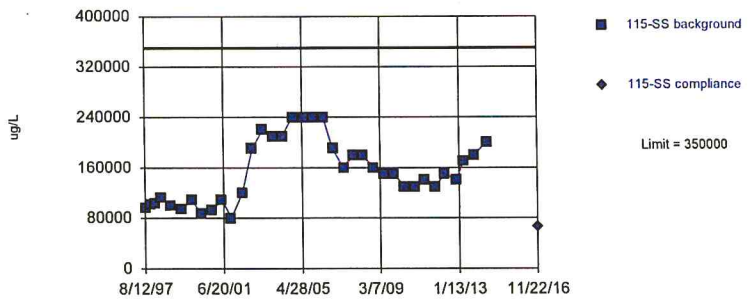
Constituent: Calcium Total Analysis Run 1/3/2017 8:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.89, Std. Dev.=0.3286, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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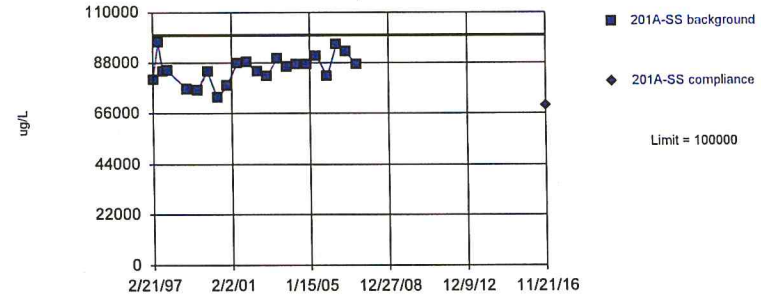
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=85186, Std. Dev.=6232, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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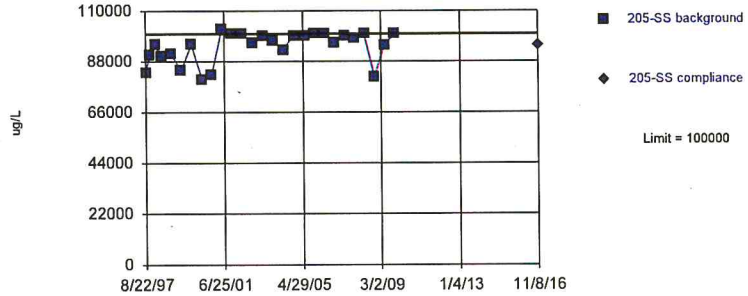
Within Limit

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 27 background values. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 1/3/2017 8:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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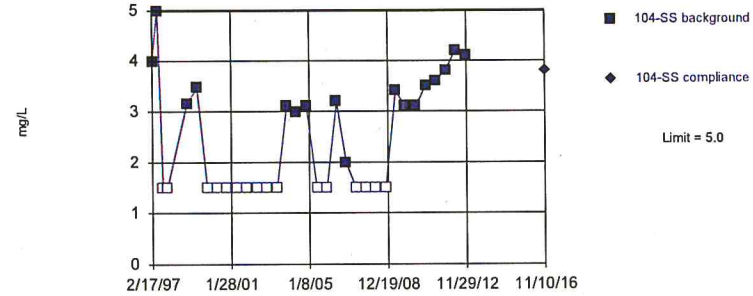
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 33 background values. 48.48% NDs. Well-constituent pair annual alpha = 0.006735. Individual comparison alpha = 0.001688 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:27 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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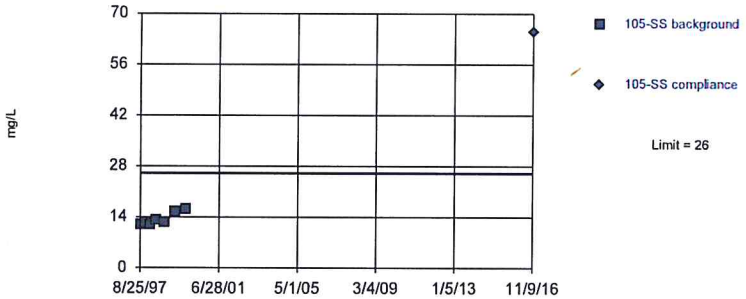
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.586, Std. Dev.=0.1213, n=7. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8516, critical = 0.838. Kappa = 5.42 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:27 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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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 0.01 alpha level. Limit is highest of 29 background values. Well-constituent pair annual alpha = 0.00858. Individual comparison alpha = 0.002152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:27 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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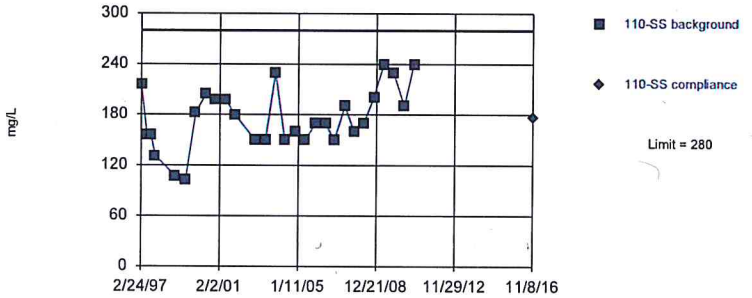
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=176, Std. Dev.=36.15, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9609, critical = 0.896. Kappa = 2.759 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <3 (5/21/2002).

Constituent: Chloride Analysis Run 1/3/2017 8:28 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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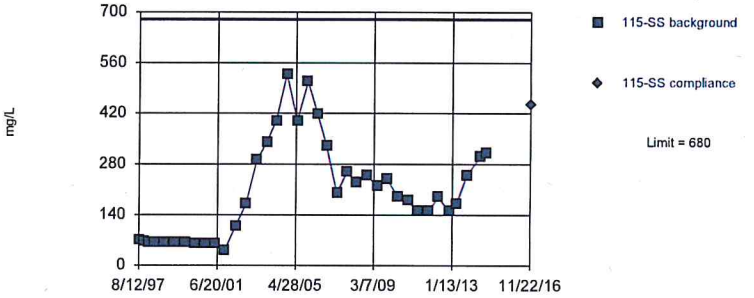
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=13.59, Std. Dev.=4.687, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:28 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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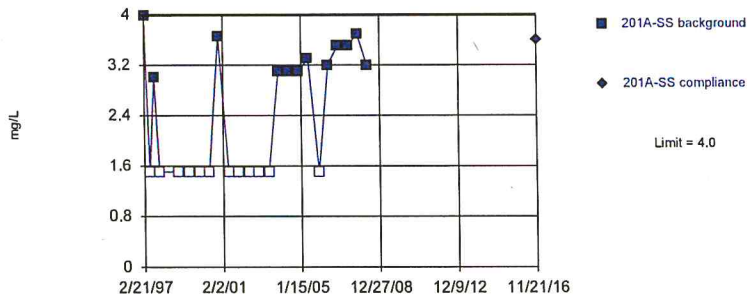
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 24 background values. 50% NDs. Well-constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.003083 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:28 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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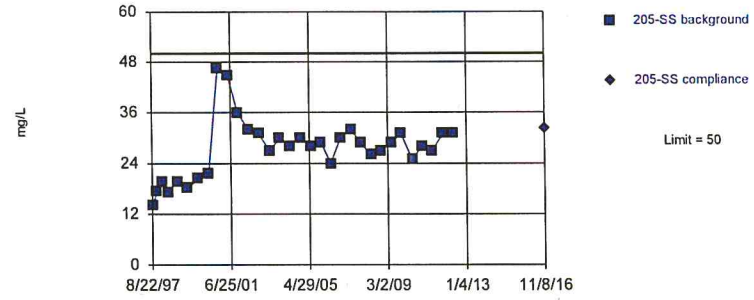
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.998, Std. Dev.=0.2584, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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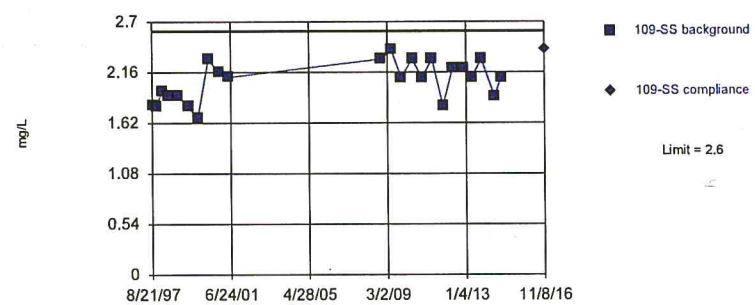
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.319, Std. Dev.=0.8498, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.881. Kappa = 2.87 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 1/3/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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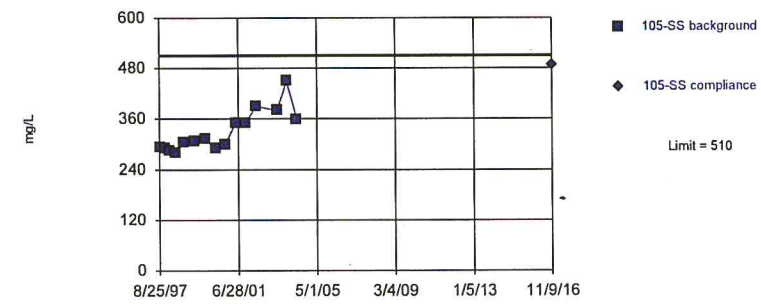
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.79, Std. Dev.=0.1385, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8889, critical = 0.881. Kappa = 3.25 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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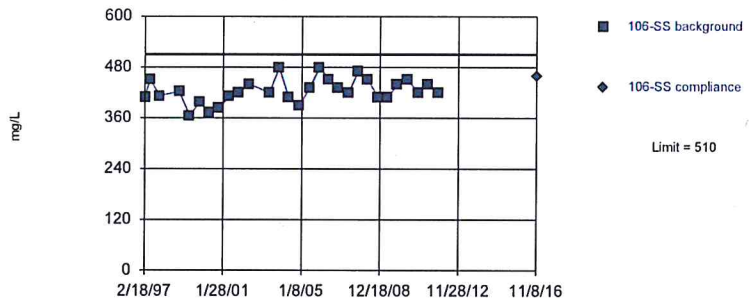
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=20.59, Std. Dev.=0.6924, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/25/1997); 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on cube transformation): Mean=6.2e8, Std. Dev.=1.8e8, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9879, critical = 0.901. Kappa = 3.006 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. Two background outliers were removed: 437 (8/22/1997); 270 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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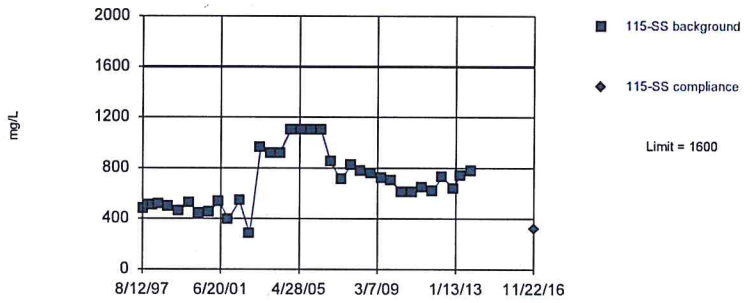
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.483, Std. Dev.=0.3251, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Hardness Total Analysis Run 1/3/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on square root transformation): Mean=19.72, Std. Dev.=0.9201, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9763, critical = 0.873. Kappa = 2.928 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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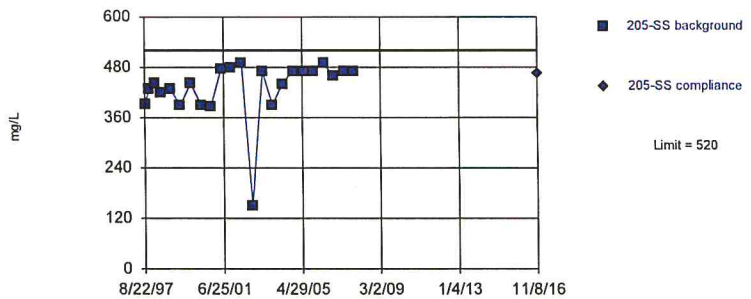
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=8.0e15, Std. Dev.=3.9e15, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.881. Kappa = 2.87 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 1/3/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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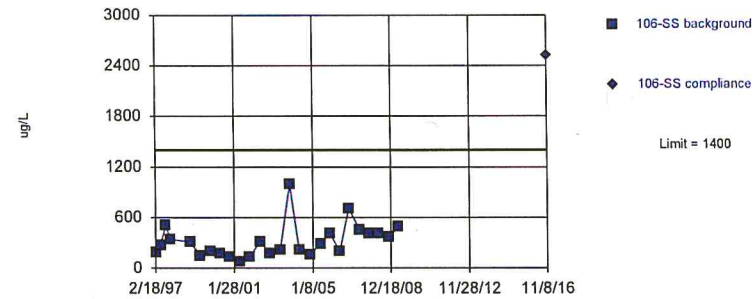
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.605, Std. Dev.=0.5835, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9865, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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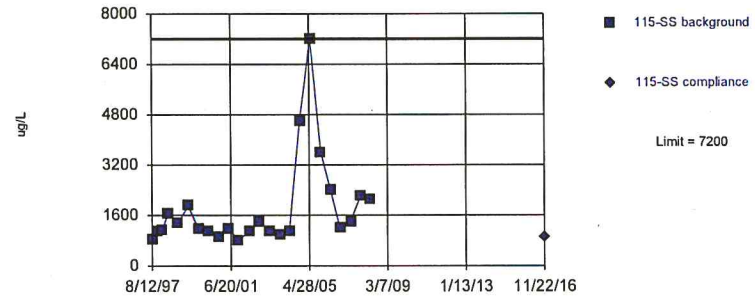
Within Limit

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. Well-constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.003083 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Iron Total Analysis Run 1/3/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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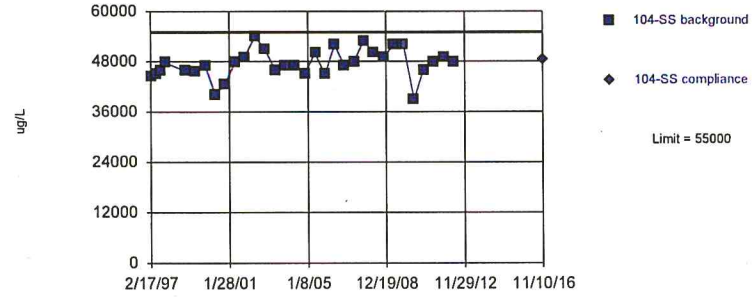
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e14, Std. Dev.=2.3e13, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.973, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:33 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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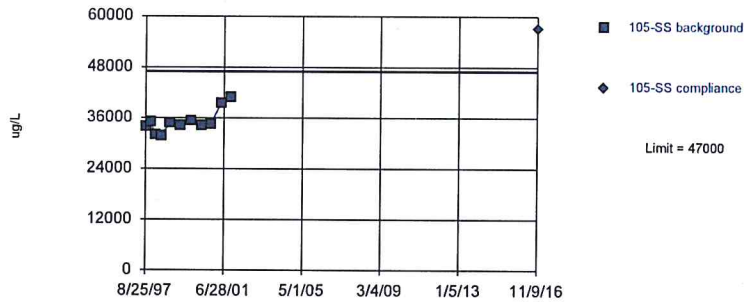
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.46, Std. Dev.=0.07764, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8517, critical = 0.85. Kappa = 3.728 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:33 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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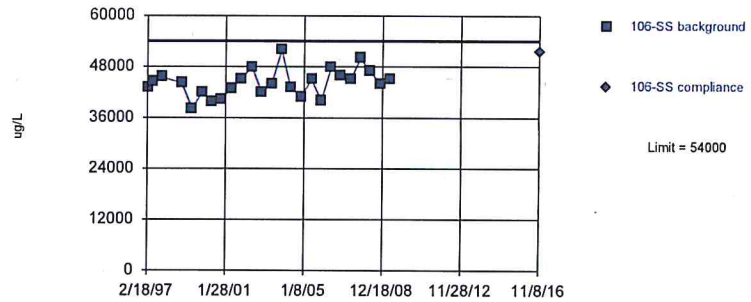
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.69, Std. Dev.=0.07281, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.888. Kappa = 2.812 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:34 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=11.28, Std. Dev.=0.07957, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9293, critical = 0.892. Kappa = 3.104 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 51000 (8/22/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:34 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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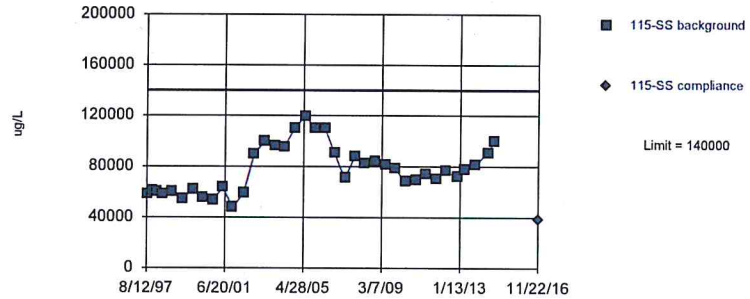
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.23, Std. Dev.=0.2383, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9667, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:34 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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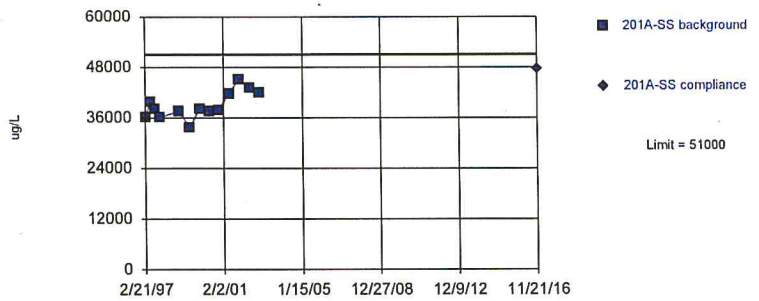
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.57, Std. Dev.=0.08112, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9611, critical = 0.866. Kappa = 3.446 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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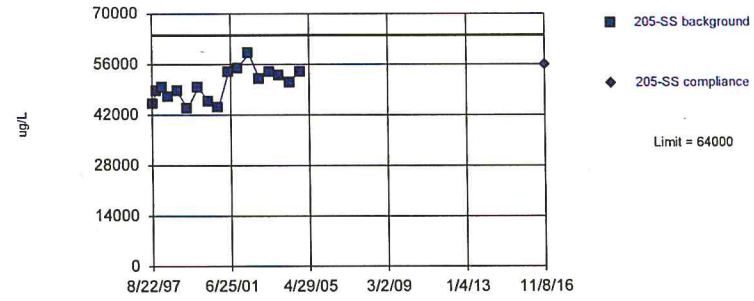
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=224, Std. Dev.=9.563, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9653, critical = 0.892. Kappa = 3.104 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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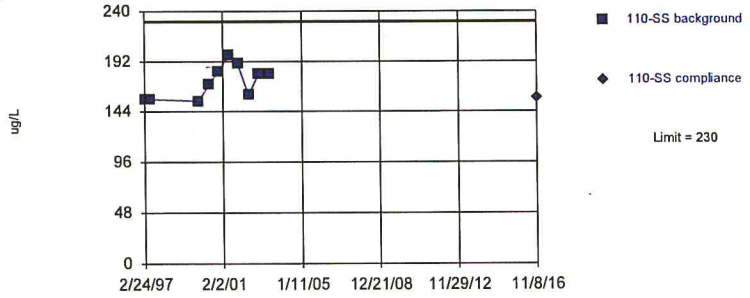
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=30012, Std. Dev.=5451, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9116, critical = 0.842. Kappa = 3.913 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. Four background outliers were removed: 20 (8/22/1997); 101 (11/8/1997); 70.8 (11/13/1998); 54.5 (5/18/1999).

Constituent: Manganese Total Analysis Run 1/3/2017 8:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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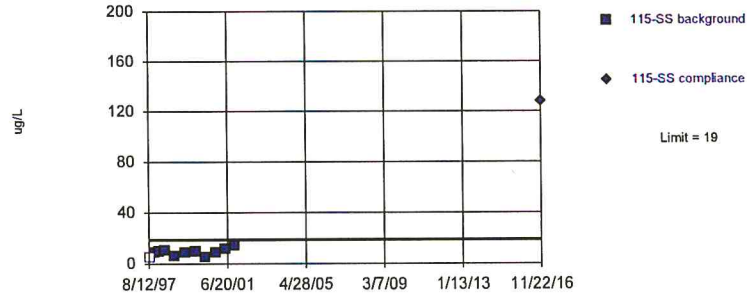
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.983, Std. Dev.=2.739, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9428, critical = 0.85. Kappa = 3.728 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 47 (5/21/2002).

Constituent: Manganese Total Analysis Run 1/3/2017 8:36 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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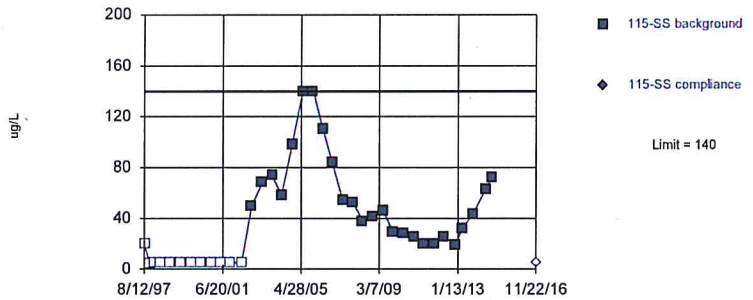
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 37 background values. 32.43% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001353 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 1/3/2017 8:36 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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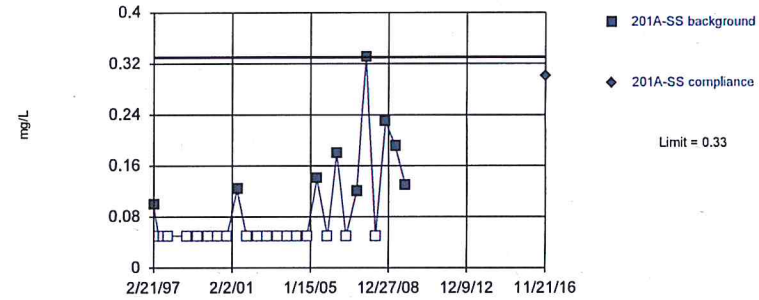
Hollow symbols indicate censored values.

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 27 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:37 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=1.983, Std. Dev.=0.05825, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:37 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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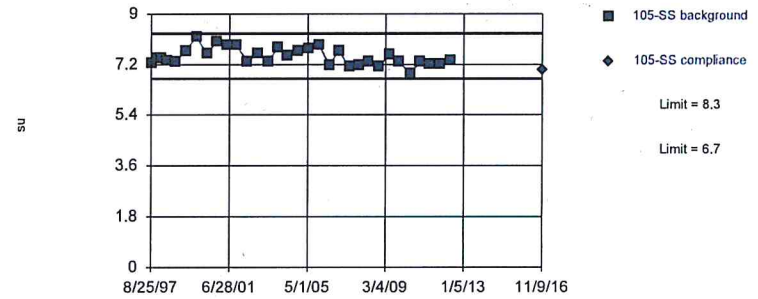
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.012, Std. Dev.=0.04035, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.961, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:38 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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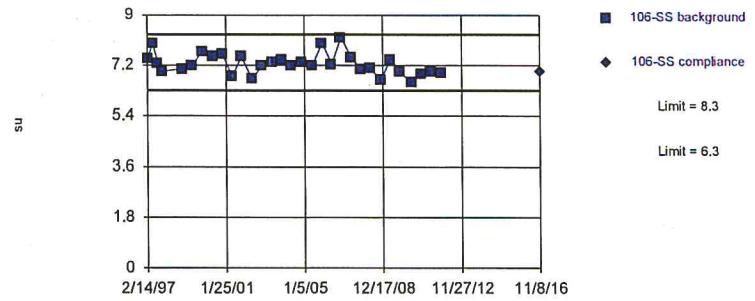
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.98, Std. Dev.=0.05226, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9745, critical = 0.902. Kappa = 2.712 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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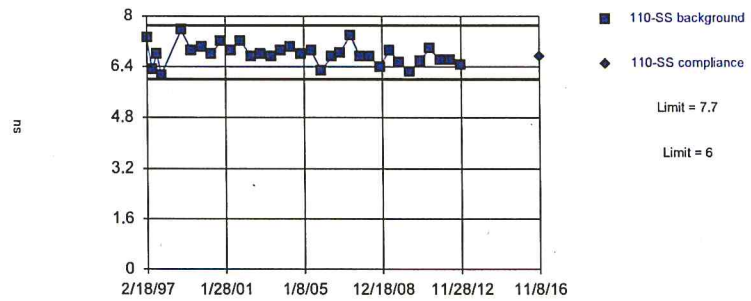
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.914, Std. Dev.=0.04822, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9795, critical = 0.906. Kappa = 2.688 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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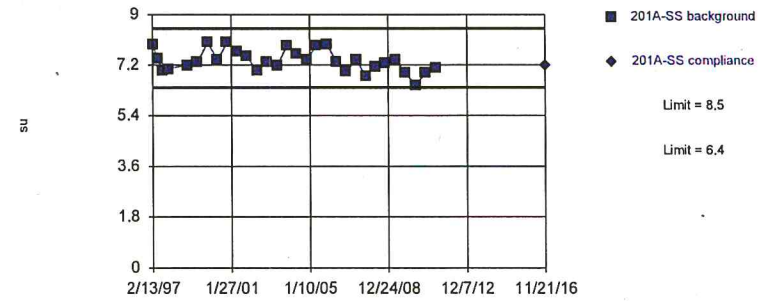
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.993, Std. Dev.=0.05282, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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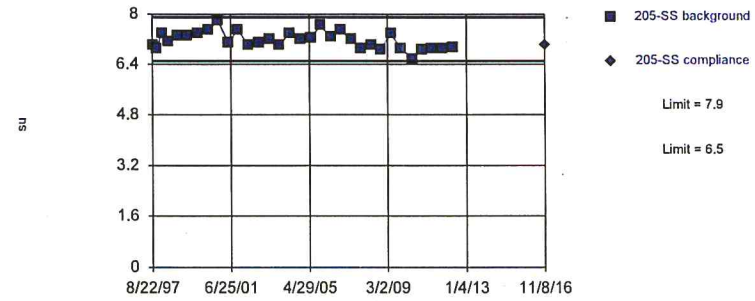
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.969, Std. Dev.=0.03712, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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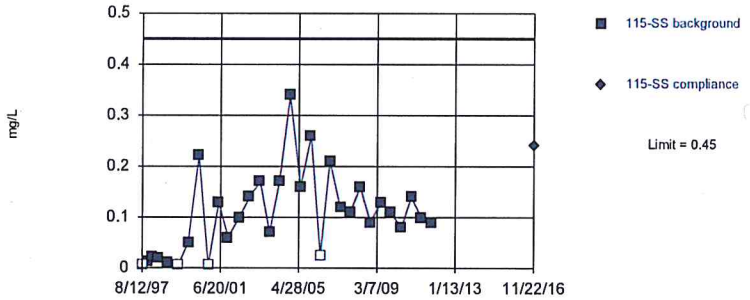
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2985, Std. Dev.=0.1361, n=31, 12.9% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.902. Kappa = 2.712 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 1/3/2017 8:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on natural log transformation): Mean=10.89, Std. Dev.=0.1457, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9758, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Exceeds Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on square transformation): Mean=1.7e8, Std. Dev.=4.0e7, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 20000 (11/20/2003).

Constituent: Sodium Total Analysis Run 1/3/2017 8:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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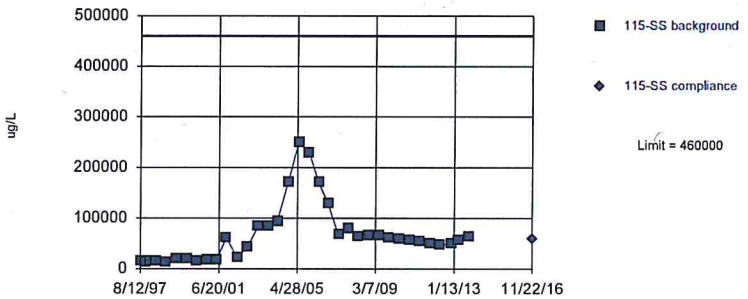
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.78, Std. Dev.=0.8461, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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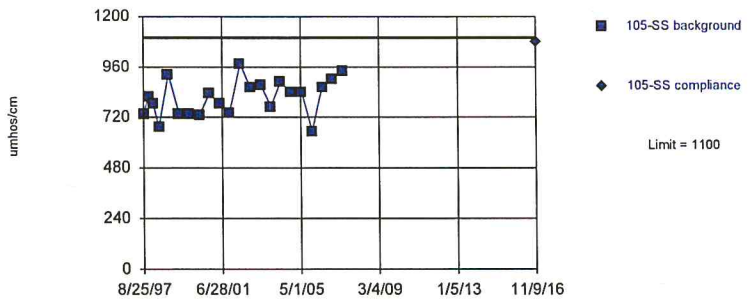
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=813.5, Std. Dev.=87.59, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on x^5 transformation): Mean=1.9e16, Std. Dev.=1.0e16, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.881. Kappa = 2.87 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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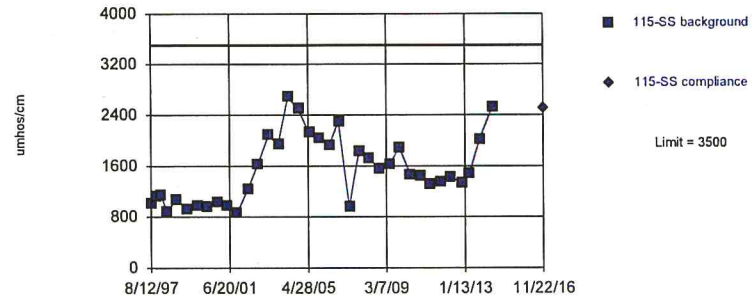
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.284, Std. Dev.=0.335, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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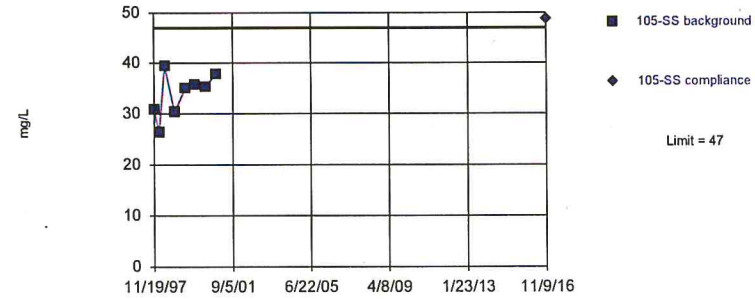
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=40346, Std. Dev.=14371, n=8. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9665, critical = 0.851. Kappa = 4.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 13 (8/25/1997).

Constituent: Sulfate Analysis Run 1/3/2017 8:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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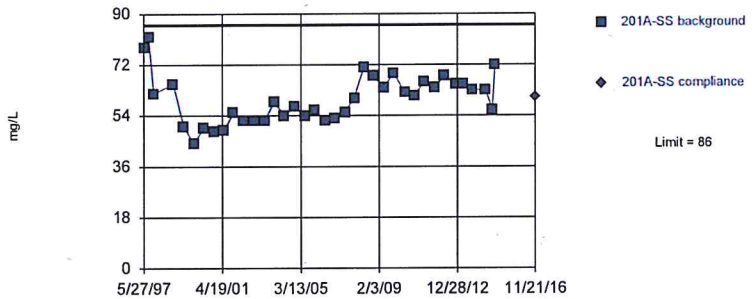
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.083, Std. Dev.=0.141, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9812, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 1/3/2017 8:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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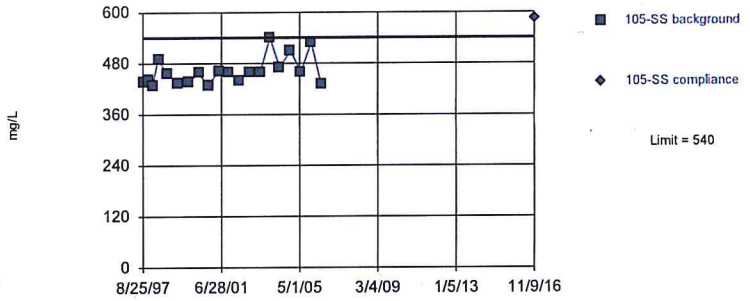
Exceeds Limit

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 0.01 alpha level. Limit is highest of 20 background values. Well-constituent pair annual alpha = 0.01677. Individual comparison alpha = 0.004219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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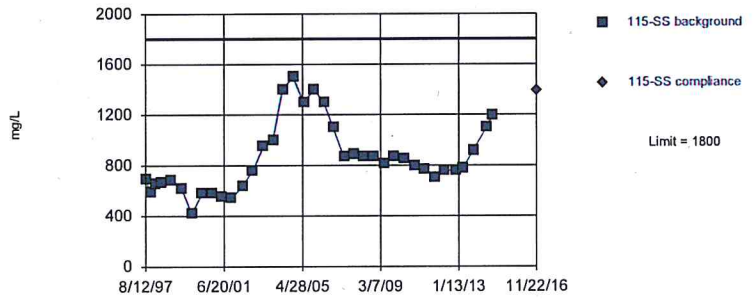
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.71, Std. Dev.=0.3007, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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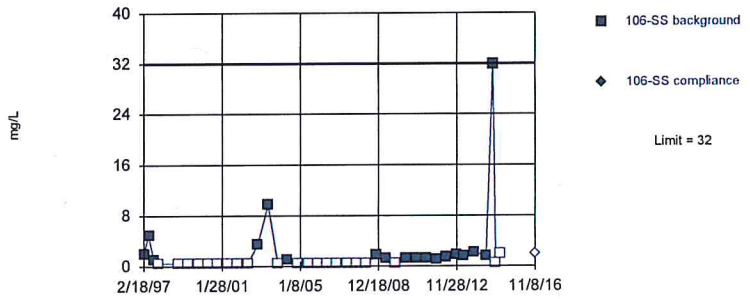
Hollow symbols indicate censored values.

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 39 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:44 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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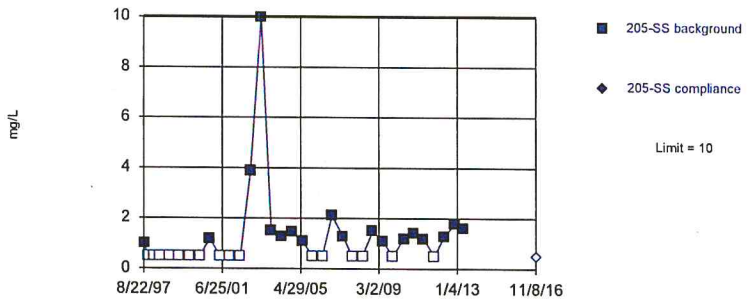
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 34 background values. 47.06% NDs. Well-constituent pair annual alpha = 0.006335. Individual comparison alpha = 0.001587 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:44 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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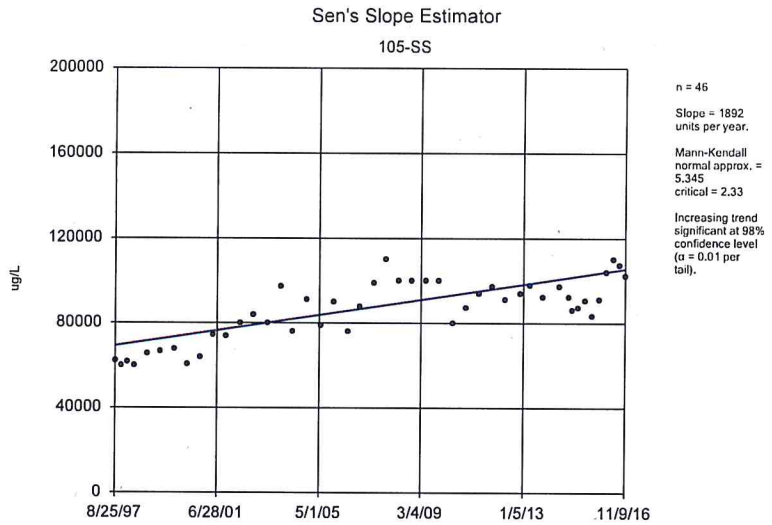

Constituent: Calcium Total Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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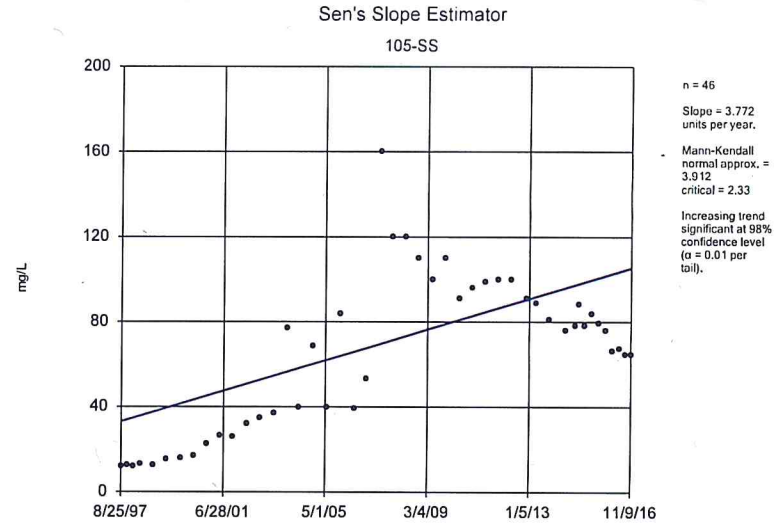

Constituent: Chloride Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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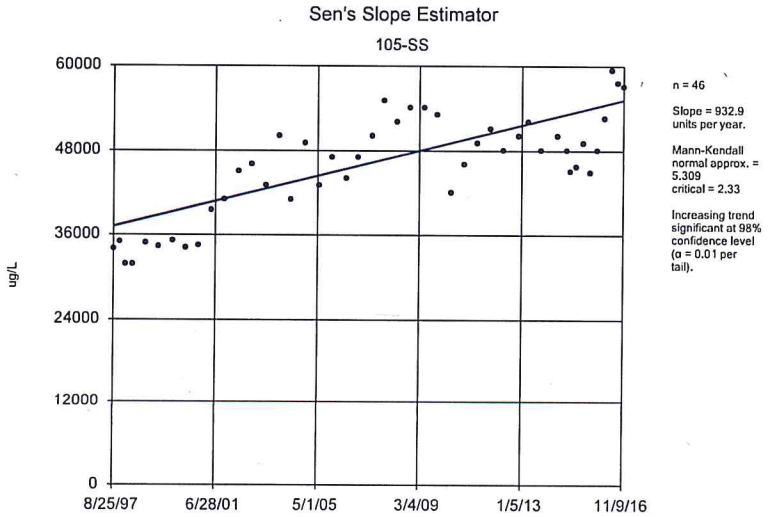

Constituent: Magnesium Total Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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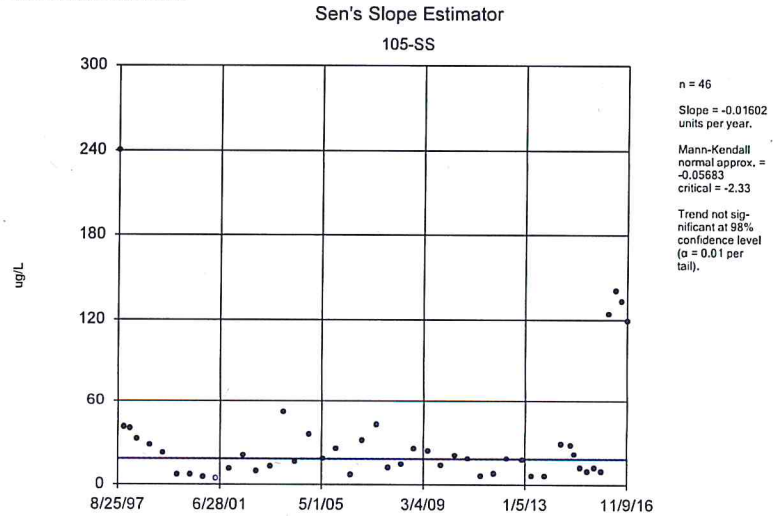
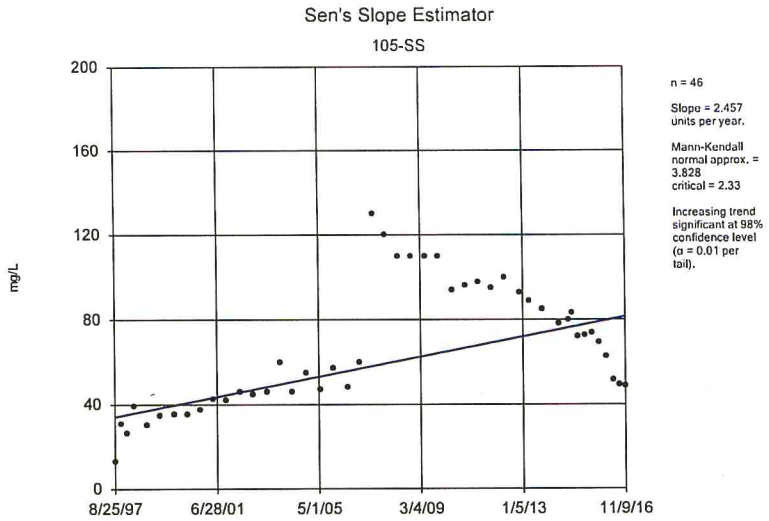
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



Constituent: Sulfate Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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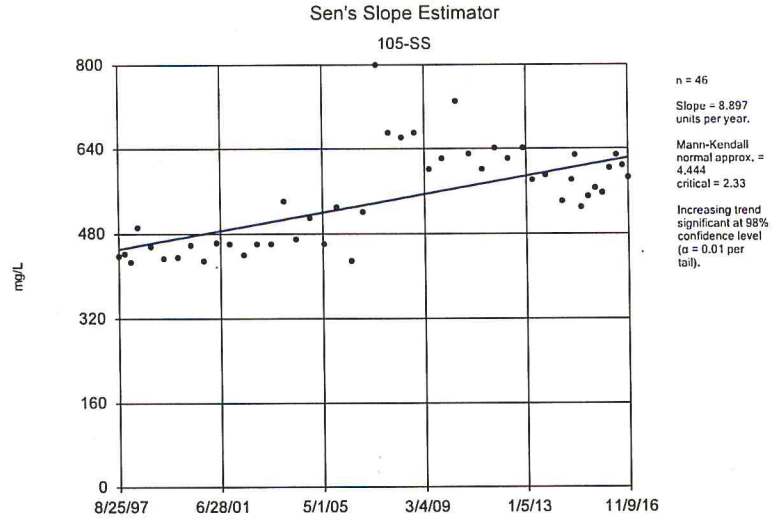

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:12 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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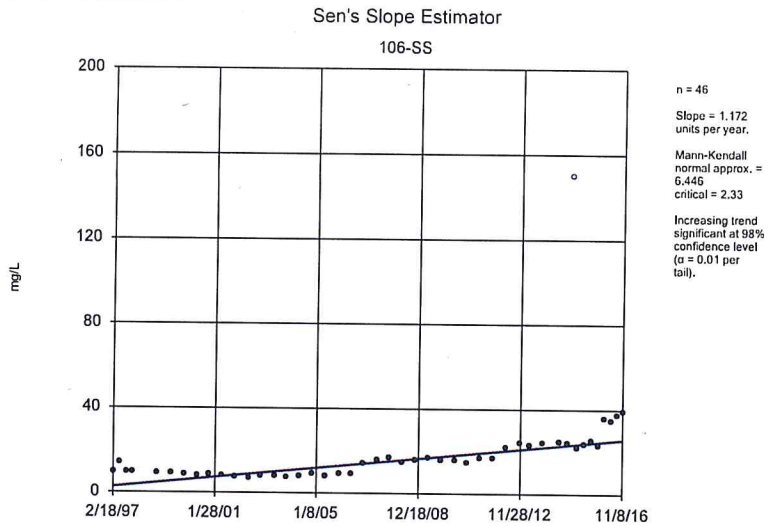
Hollow symbols indicate censored values.



Constituent: Chloride Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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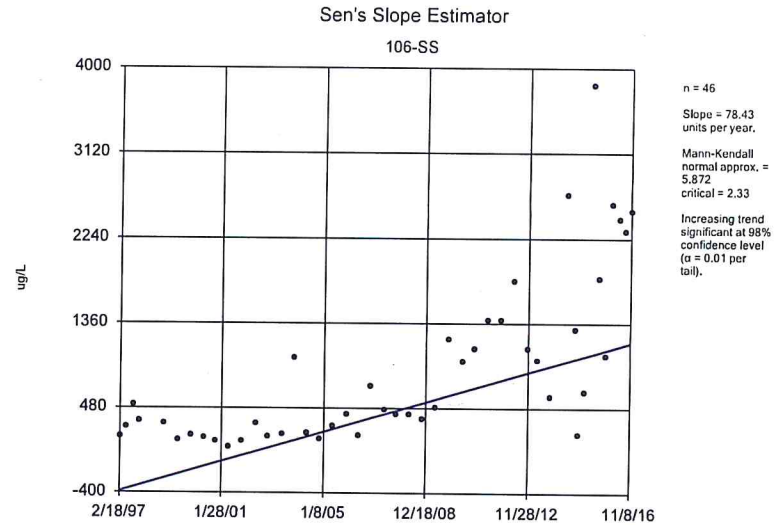

Constituent: Iron Total Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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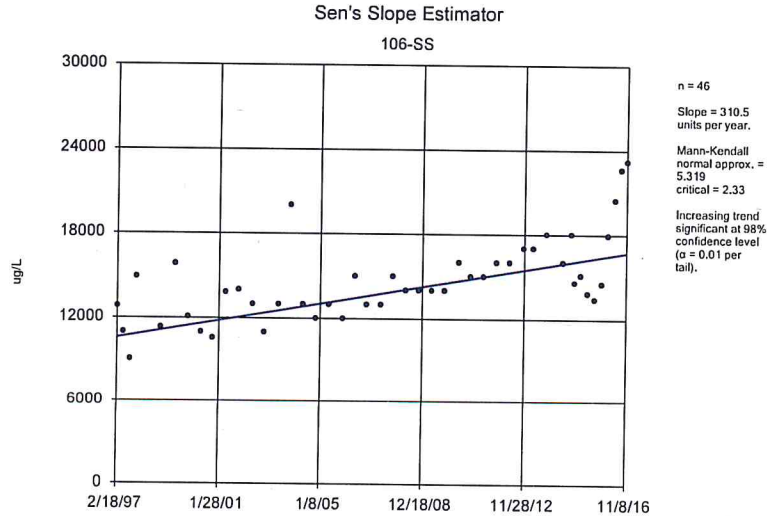
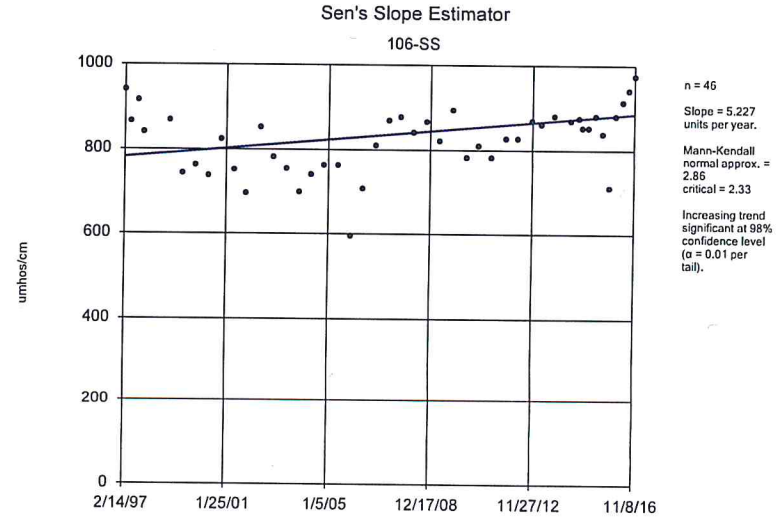


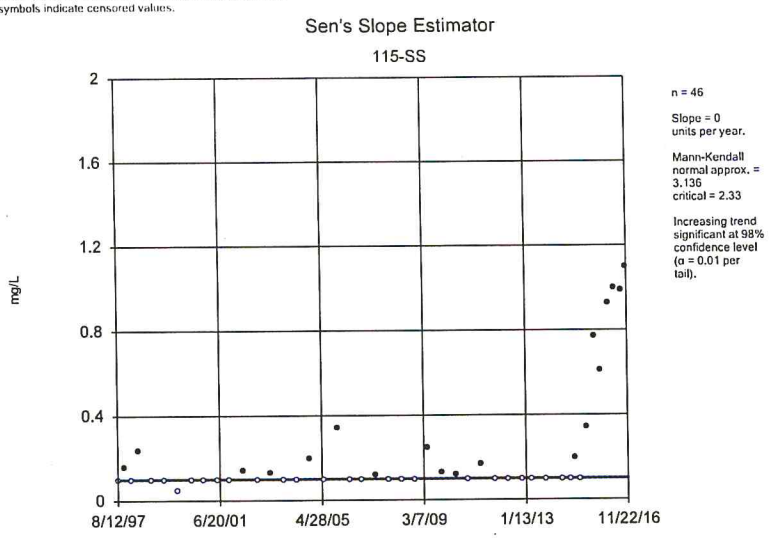
Constituent: Sodium Total Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



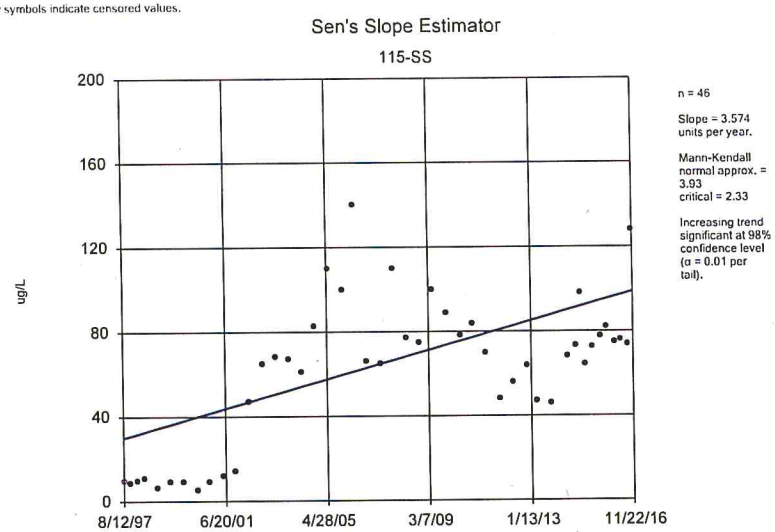
Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Ammonia as N Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

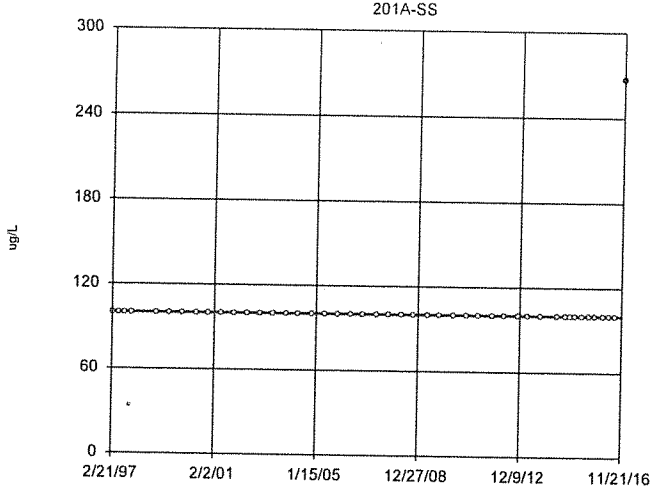


Constituent: Manganese Total Analysis Run 1/3/2017 10:13 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS



n = 46

Slope = 0
units per year.

Mann-Kendall
normal approx. =
1.657
critical = 2.33

Trend not significant at 98% confidence level
(α = 0.01 per tail).

Constituent: Boron Total Analysis Run 1/3/2017 10:14 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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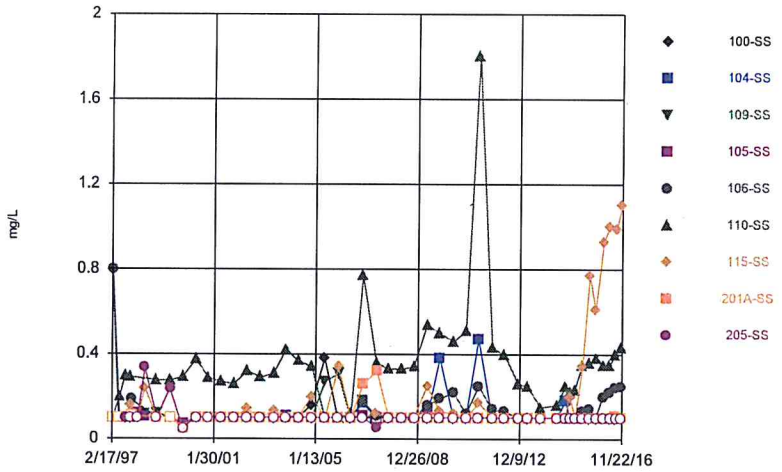
Hollow symbols indicate censored values.

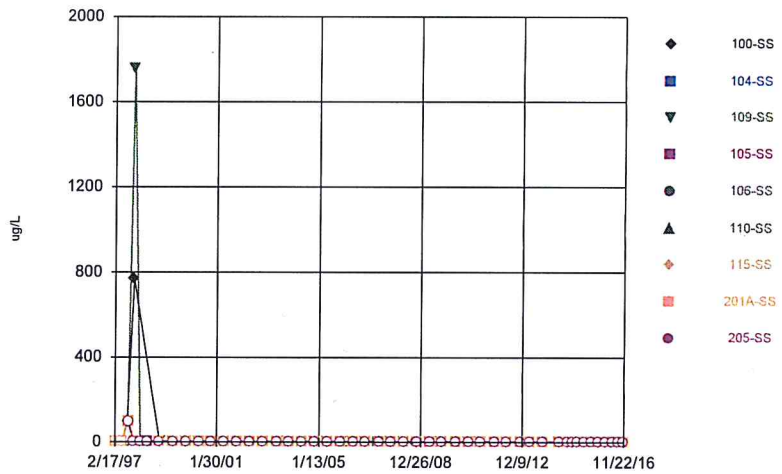
Time Series



Constituent: Ammonia as N Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

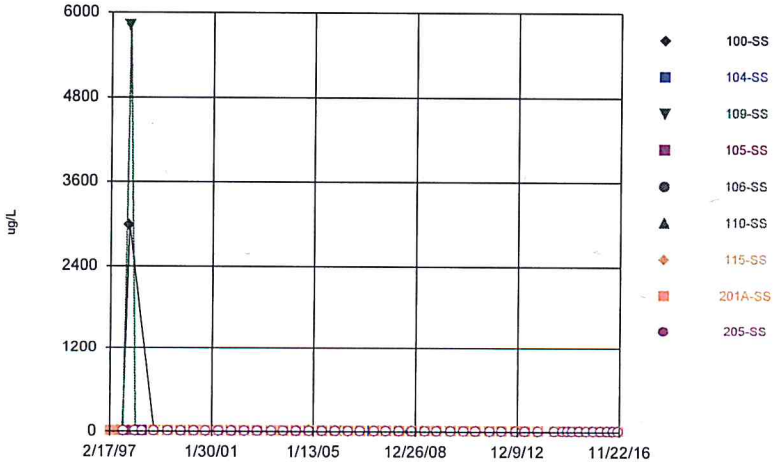
Time Series



Constituent: Antimony Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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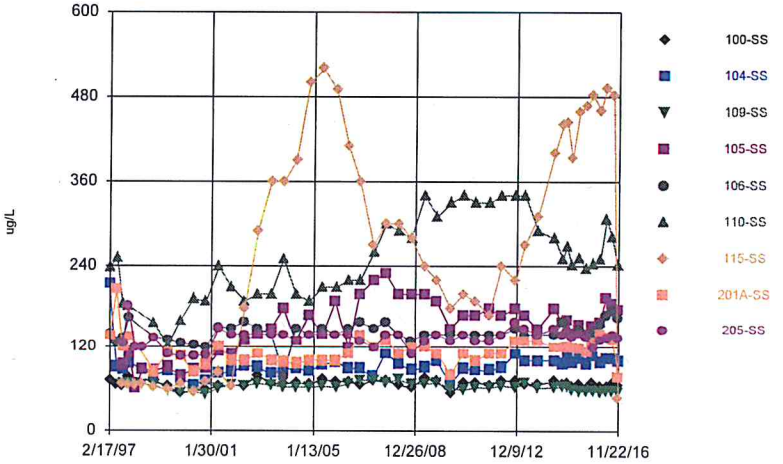
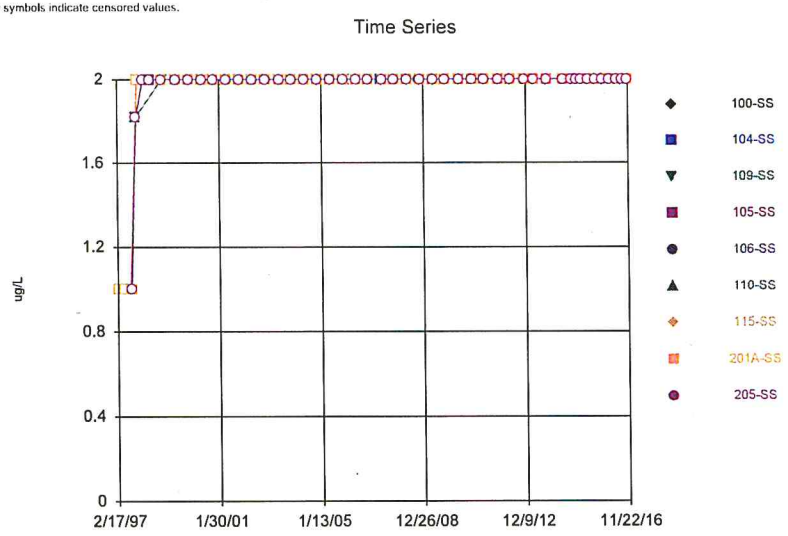
Time Series



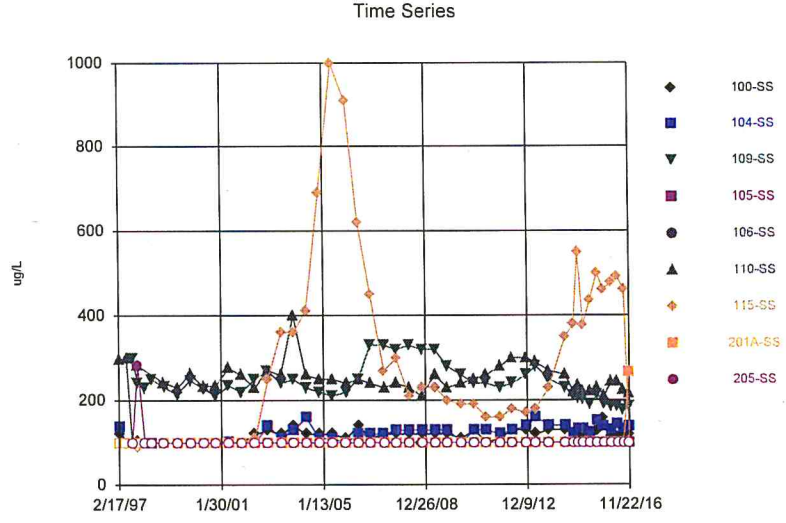
Constituent: Barium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



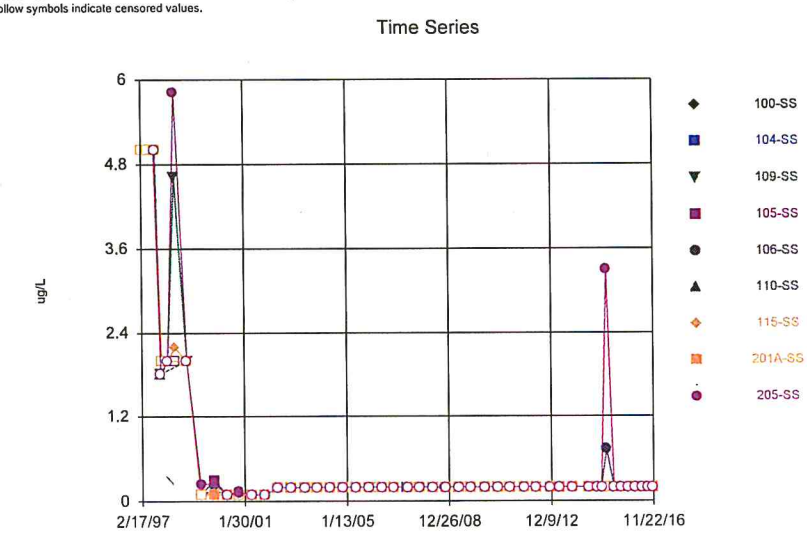
Constituent: Beryllium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



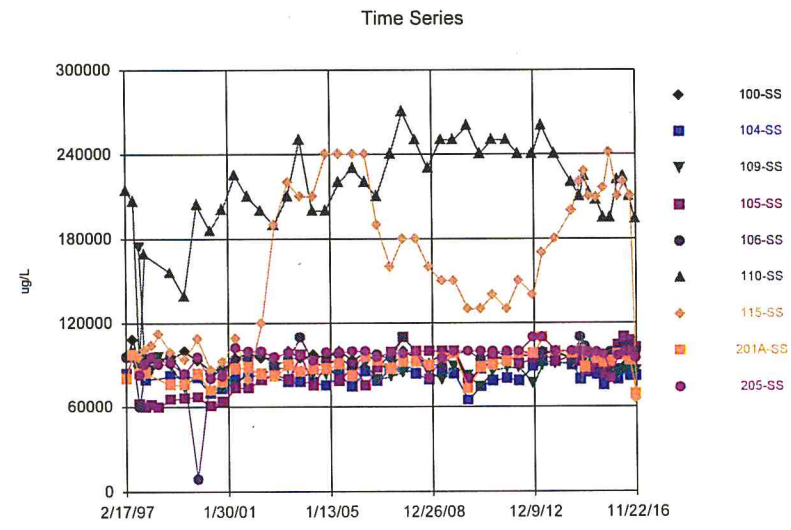
Constituent: Boron Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Cadmium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

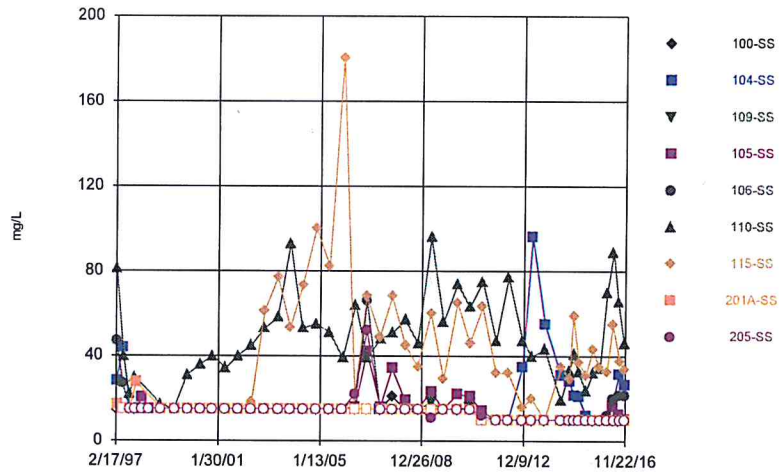
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



Constituent: Calcium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

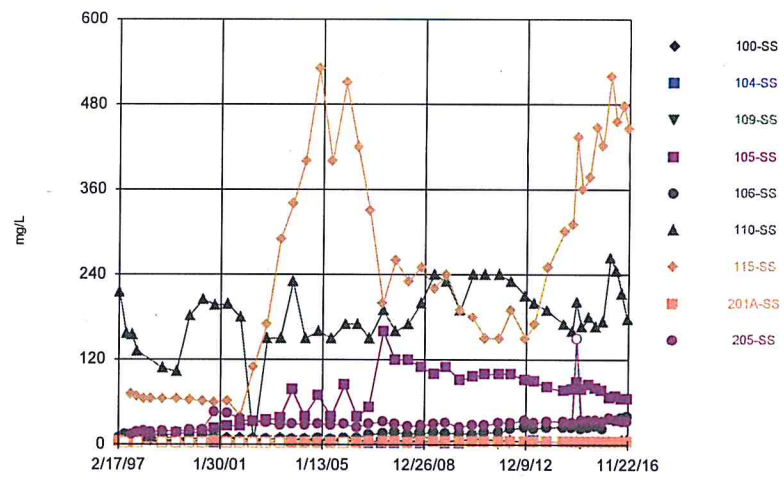
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

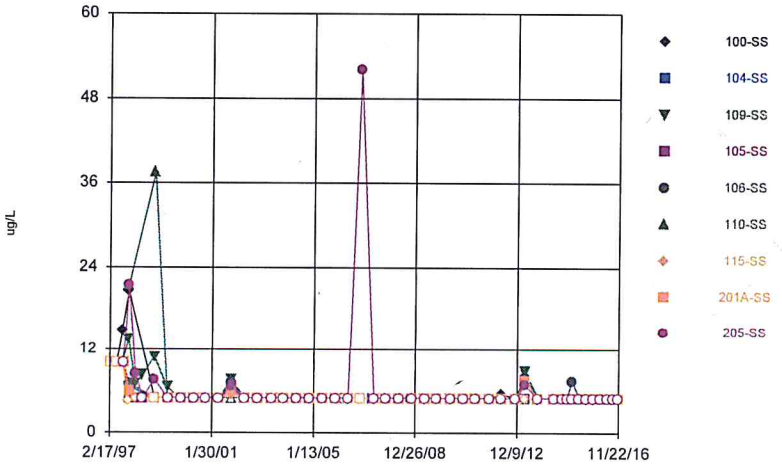
Time Series



Constituent: Chloride Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

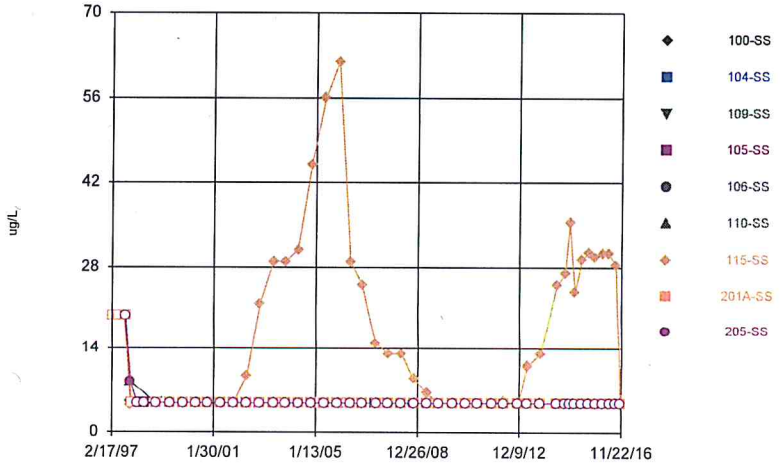
Time Series



Constituent: Chromium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

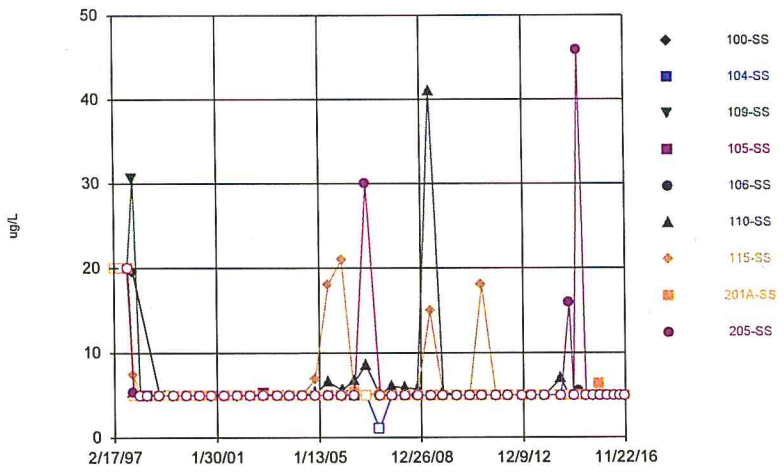
Time Series



Constituent: Cobalt Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

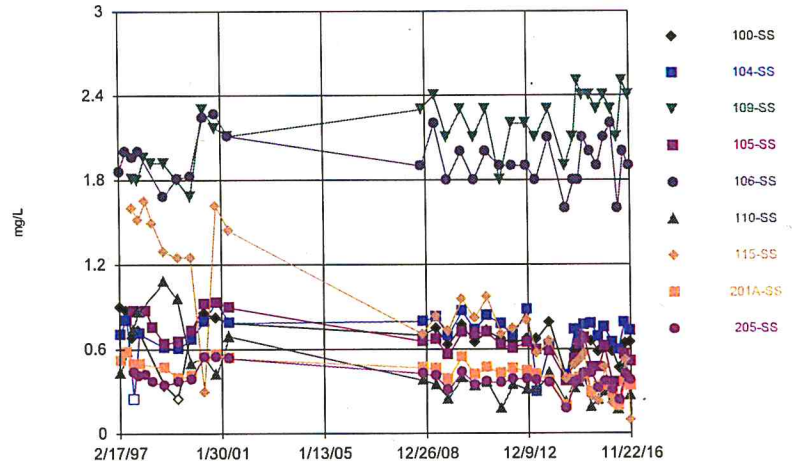
Time Series



Constituent: Copper Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

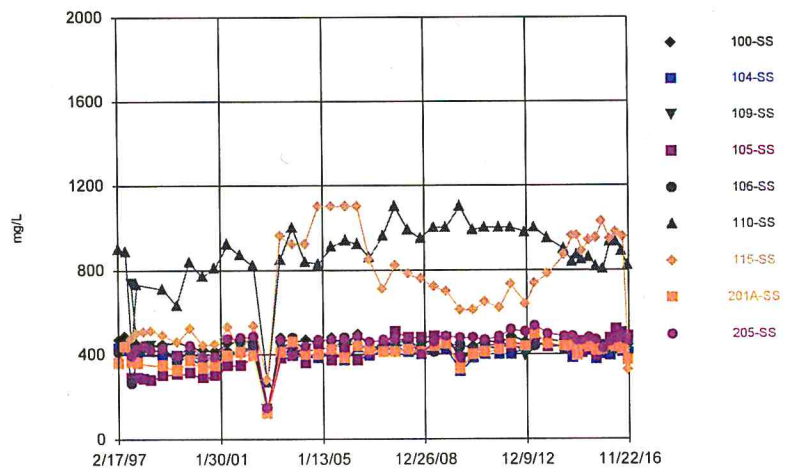
Time Series



Constituent: Fluoride Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

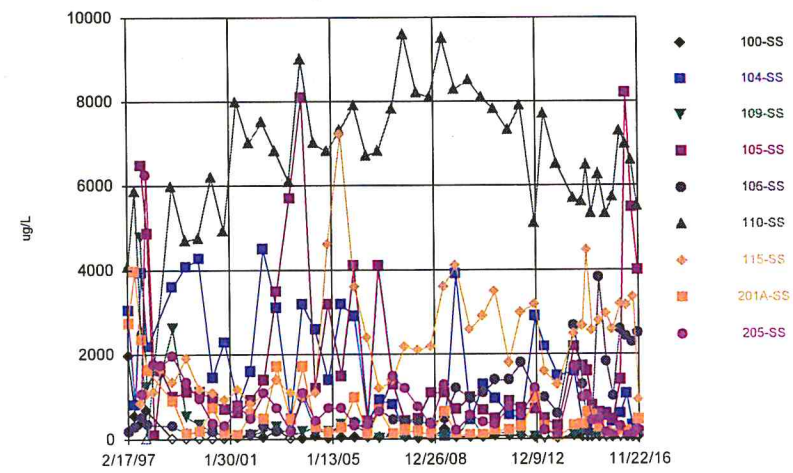
Time Series



Constituent: Hardness Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

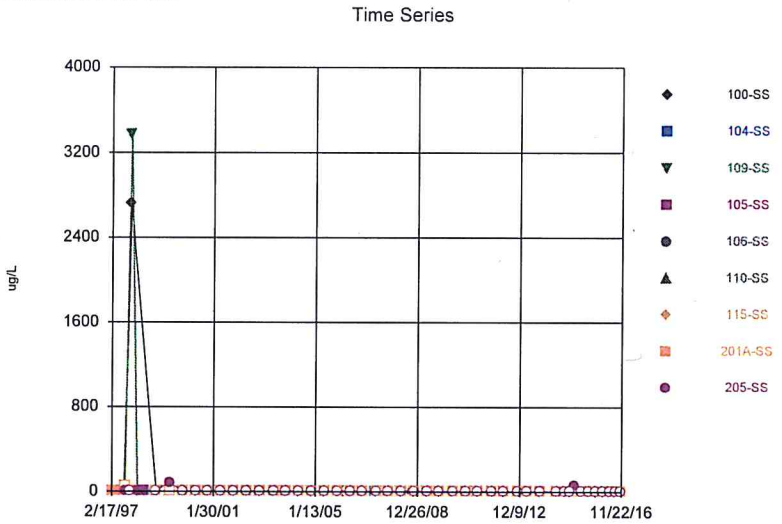
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



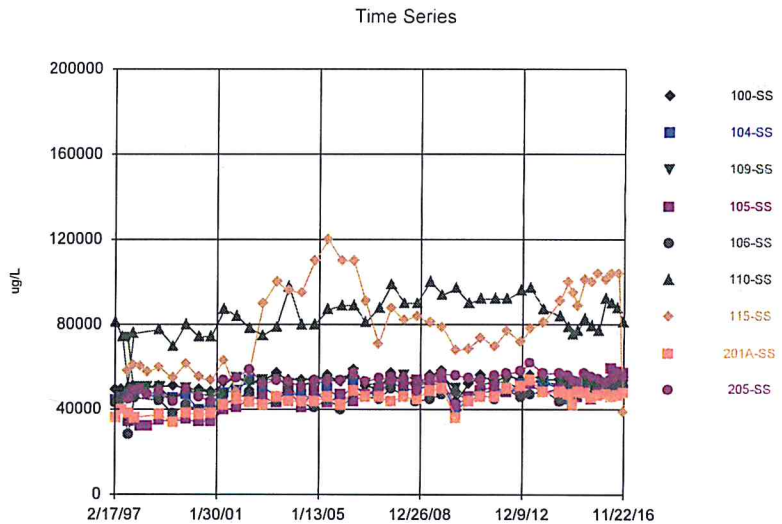
Constituent: Iron Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



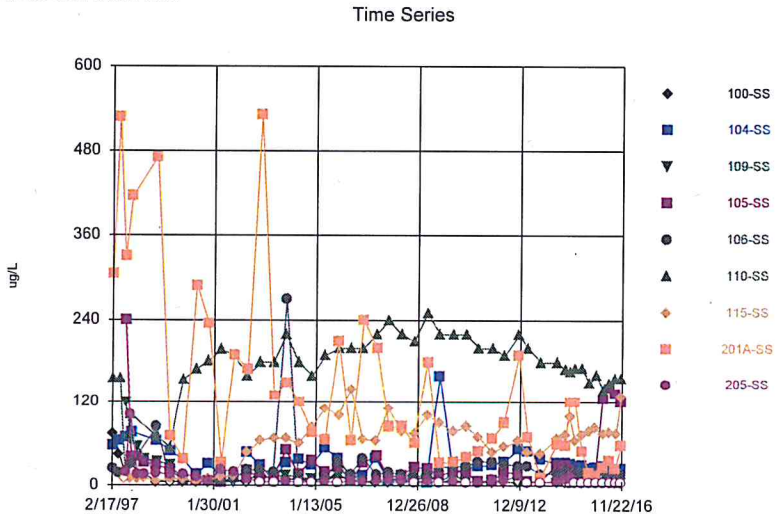
Constituent: Lead Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



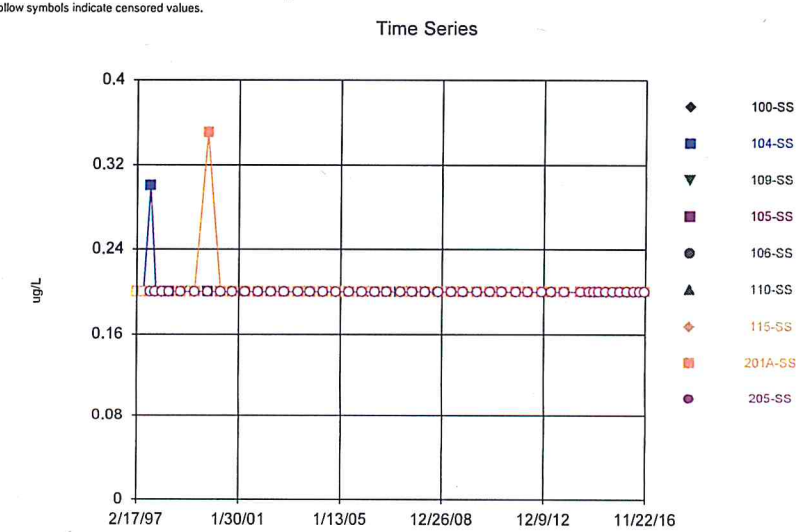
Constituent: Magnesium Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Manganese Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

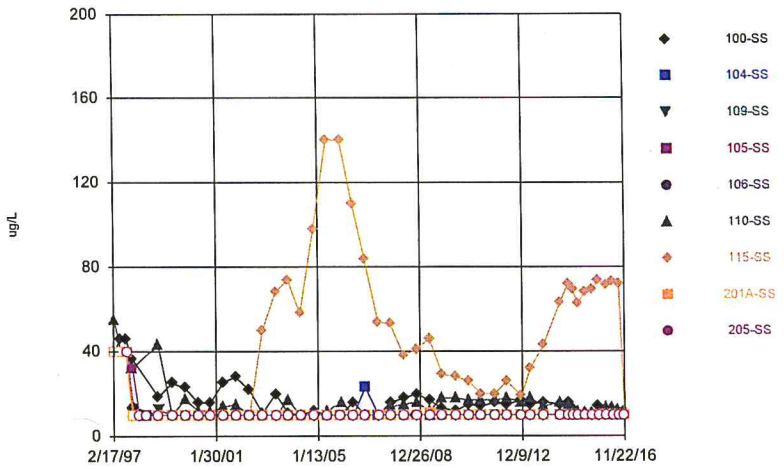
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Mercury Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

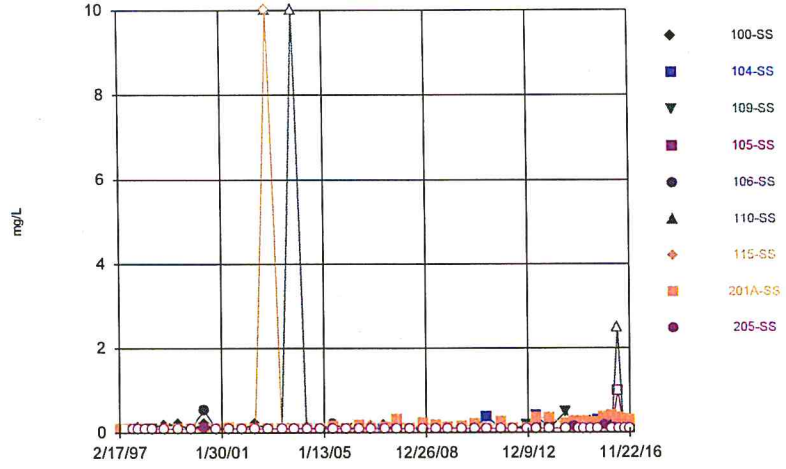
Time Series



Constituent: Nickel Total Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

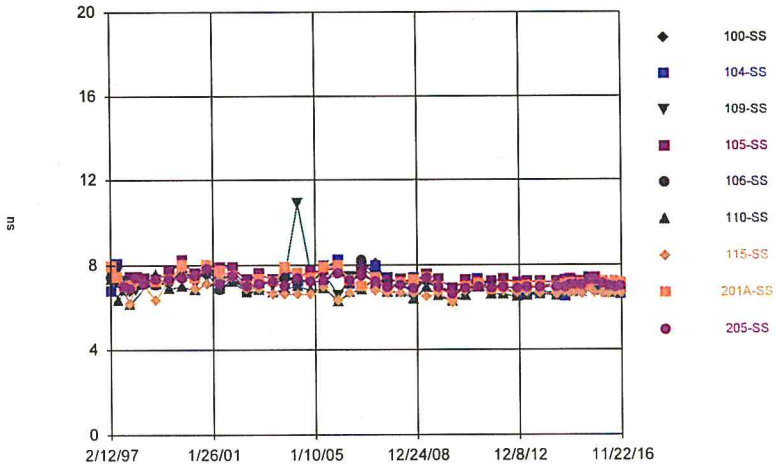
Time Series



Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: pH [Field] Analysis Run 1/3/2017 10:07 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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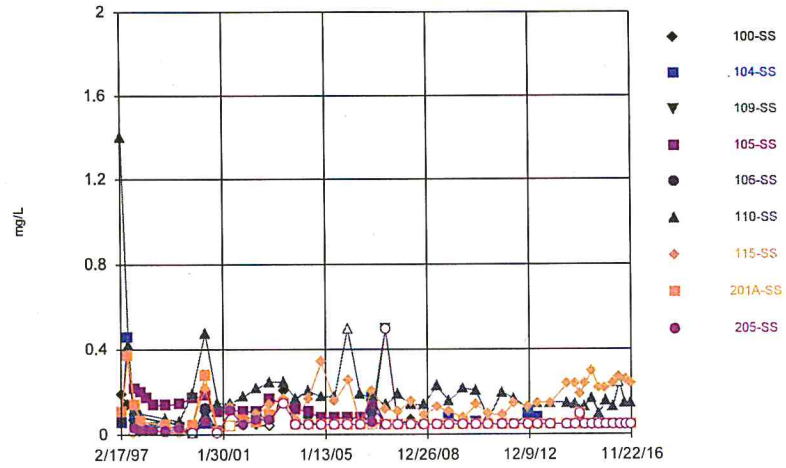
Hollow symbols indicate censored values.

Time Series



Constituent: Phosphorus Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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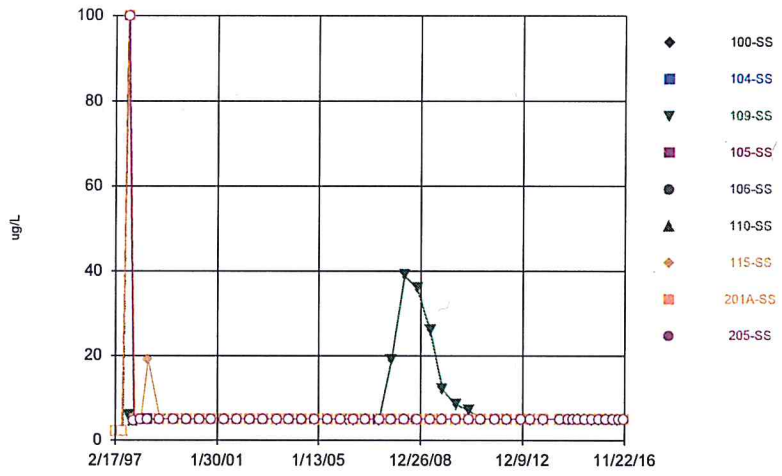
Hollow symbols indicate censored values.

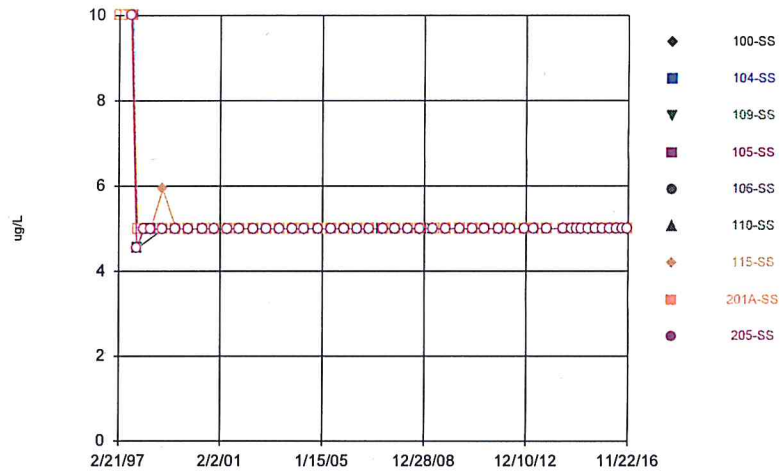
Time Series



Constituent: Selenium Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

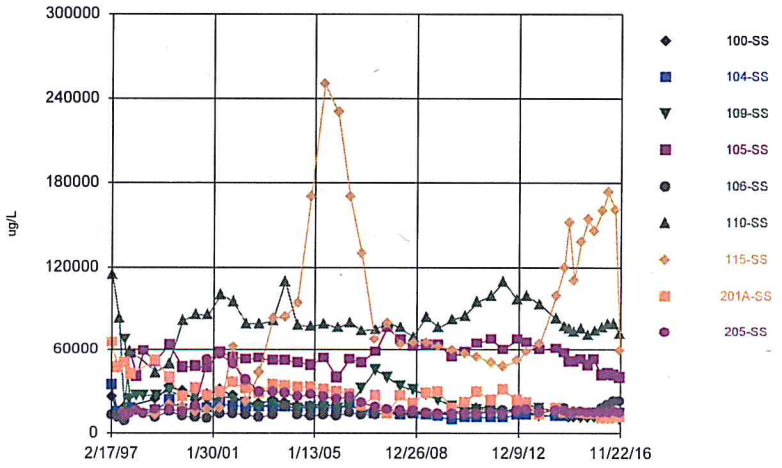
Time Series



Constituent: Silver Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

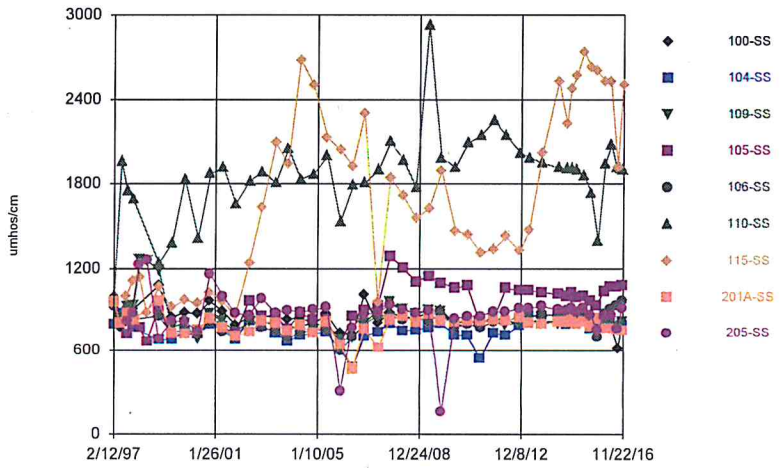
Time Series



Constituent: Sodium Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

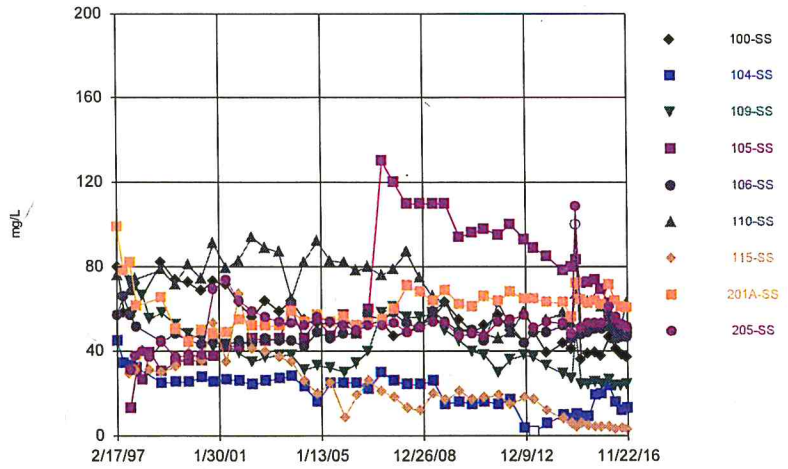
Time Series



Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

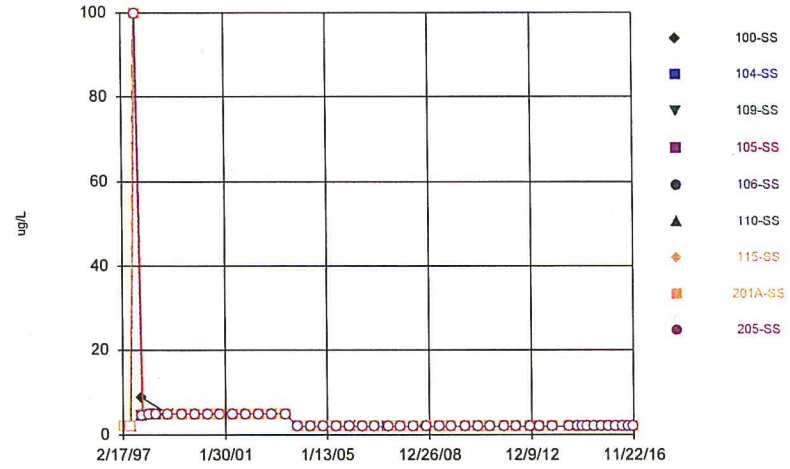
Time Series



Constituent: Sulfate Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

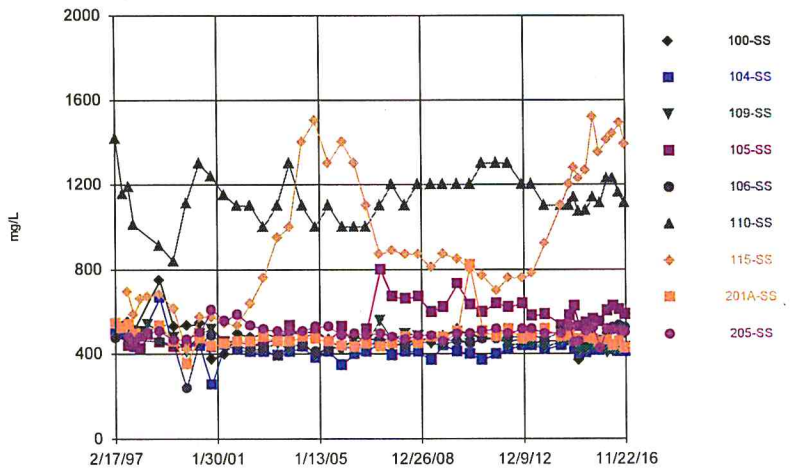
Time Series



Constituent: Thallium Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

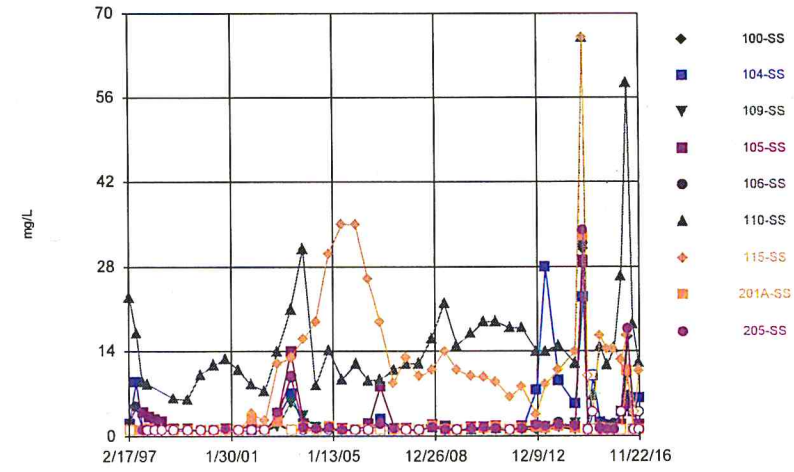
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

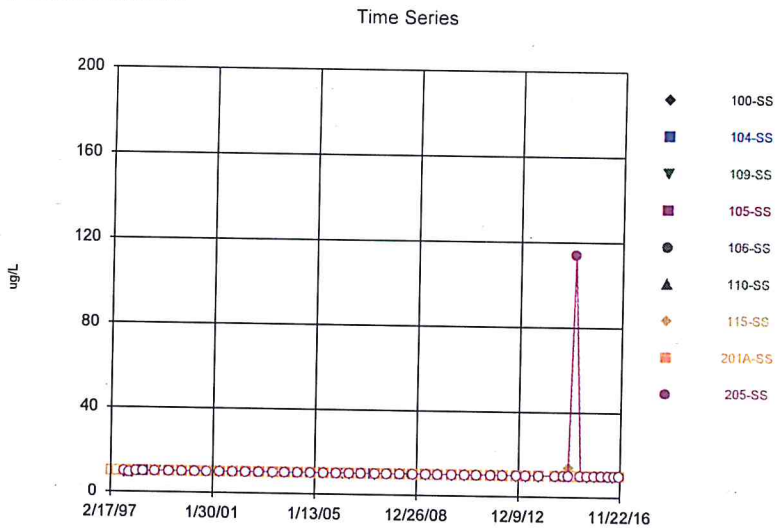
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



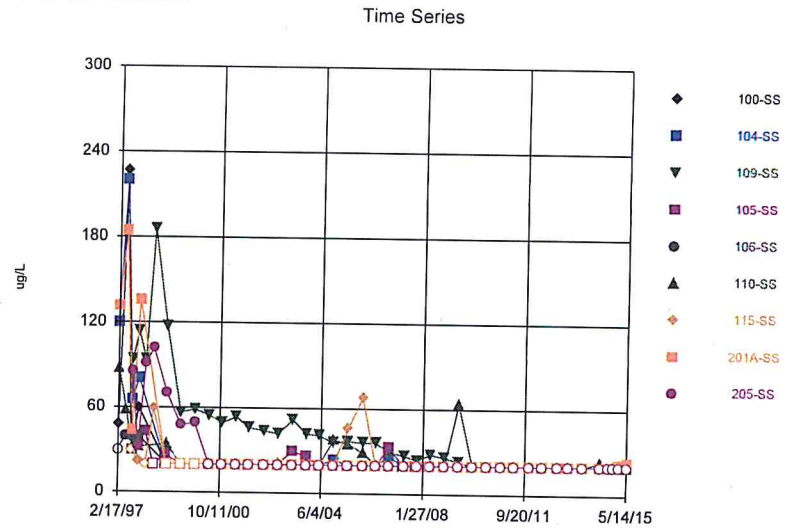
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Vanadium Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

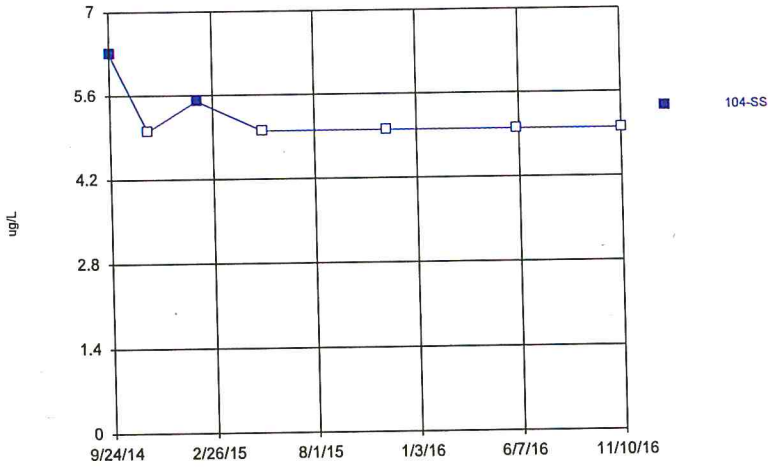
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Zinc Total Analysis Run 1/3/2017 10:08 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

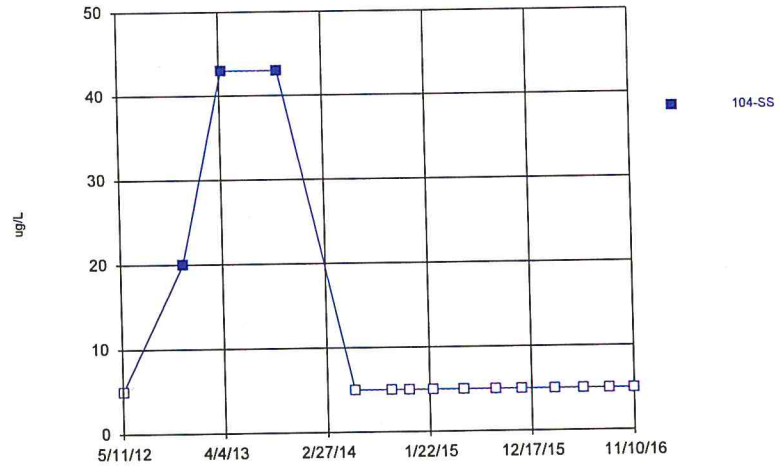
Time Series



Constituent: 124-Trimethylbenzene Analysis Run 1/3/2017 4:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

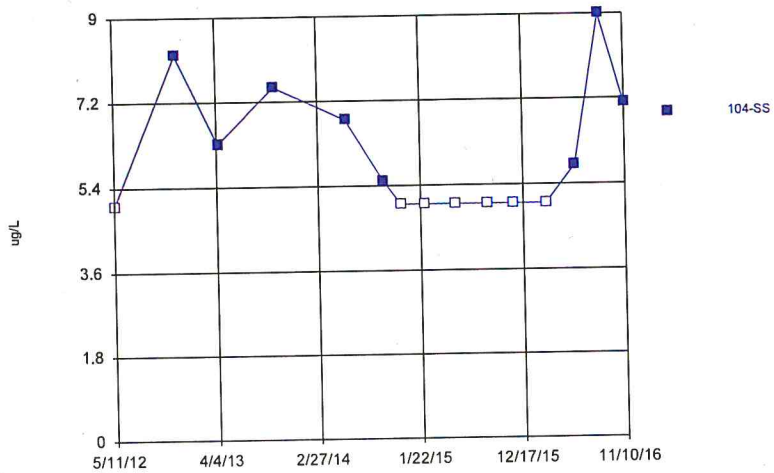
Time Series



Constituent: 12-Dichloroethane Analysis Run 1/3/2017 4:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: 14-Dichlorobenzene Analysis Run 1/3/2017 4:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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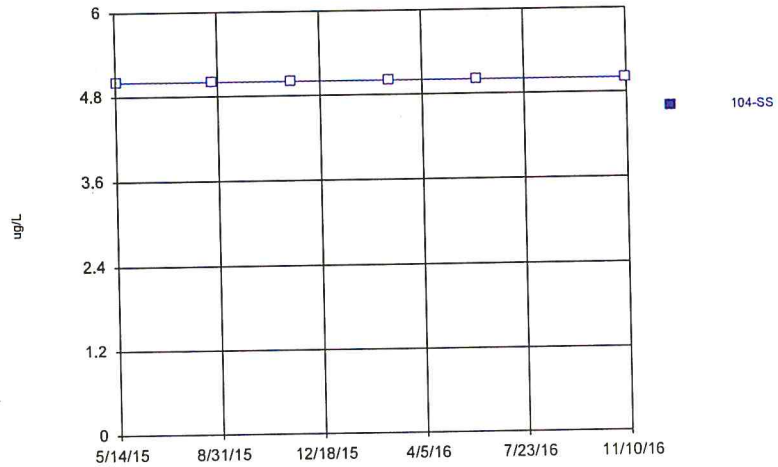
Time Series



Constituent: 1-Chlorobutane Analysis Run 1/3/2017 4:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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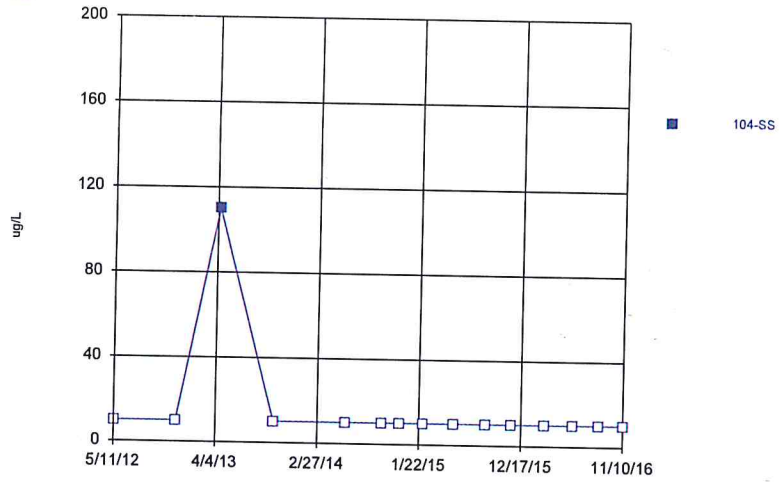
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone [MEK] Analysis Run 1/3/2017 4:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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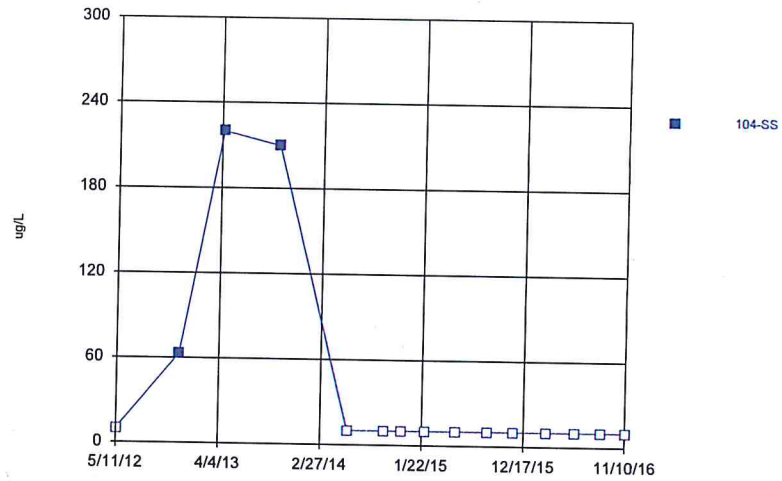
Time Series



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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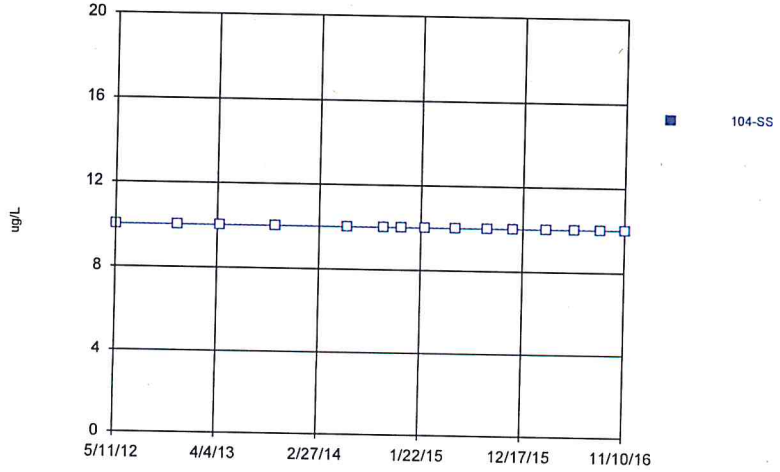
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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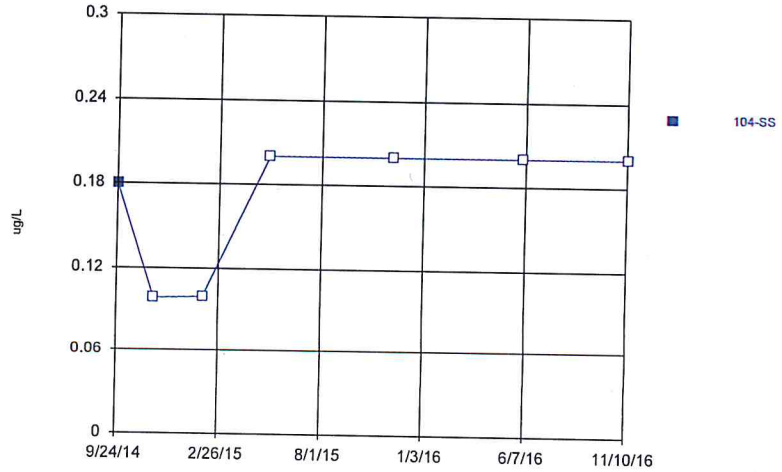
Hollow symbols indicate censored values.

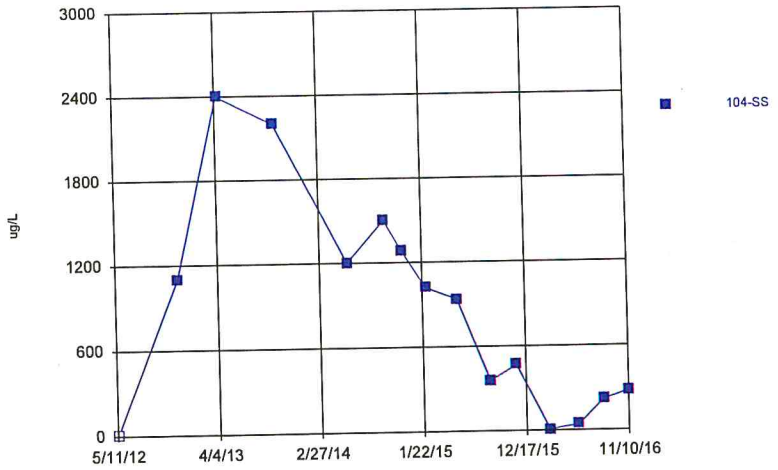
Time Series



Constituent: Aroclor 1221 Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

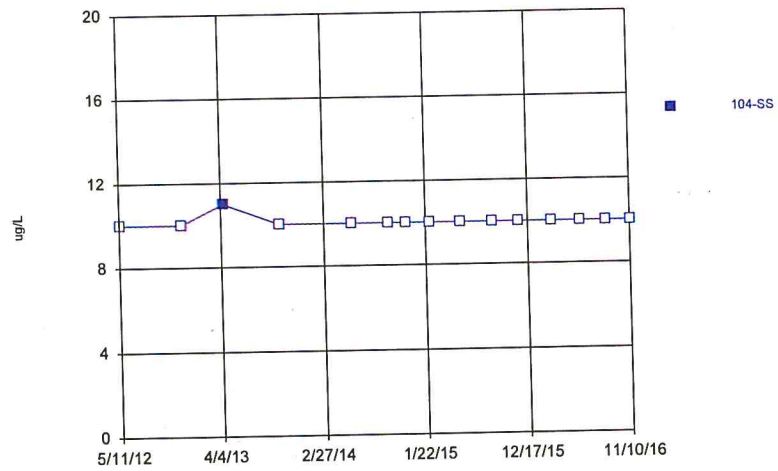
Time Series



Constituent: Benzene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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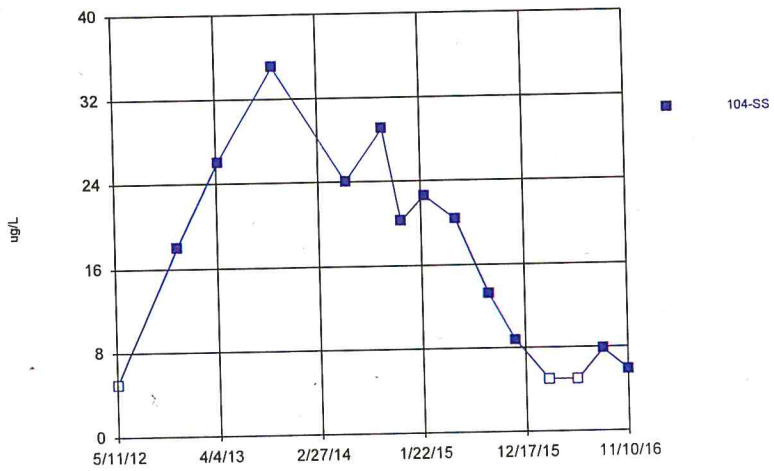
Hollow symbols indicate censored values.

Time Series



Constituent: Ethylbenzene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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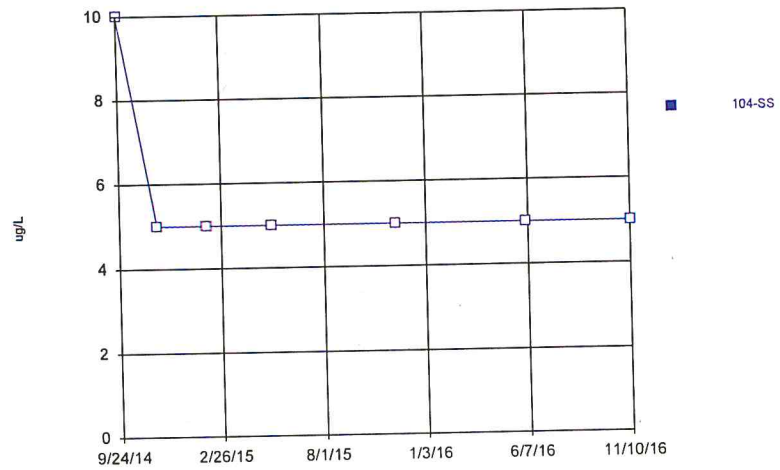
Hollow symbols indicate censored values.

Time Series



Constituent: Isopropylbenzene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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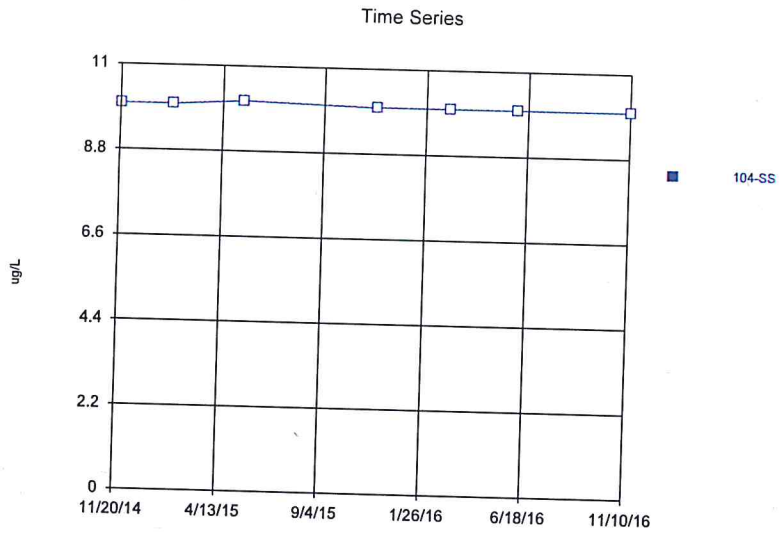
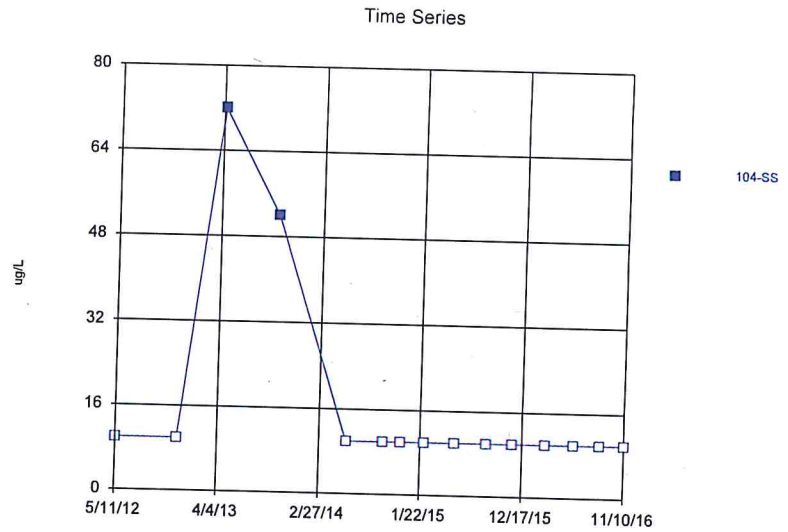
Hollow symbols indicate censored values.



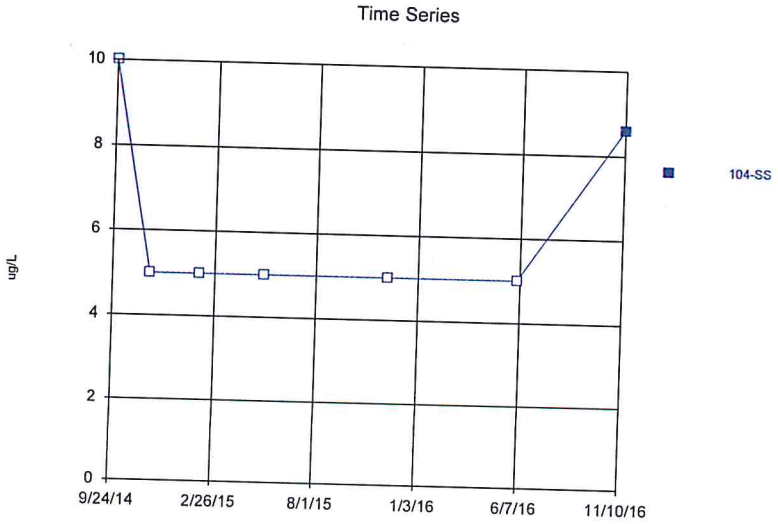
Constituent: m+p-Cresols Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



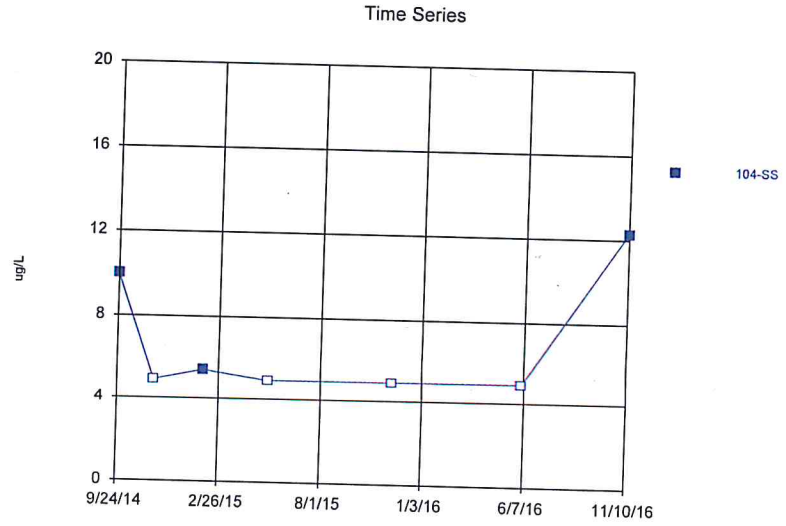
Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Methyl-tert-butyl ether Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

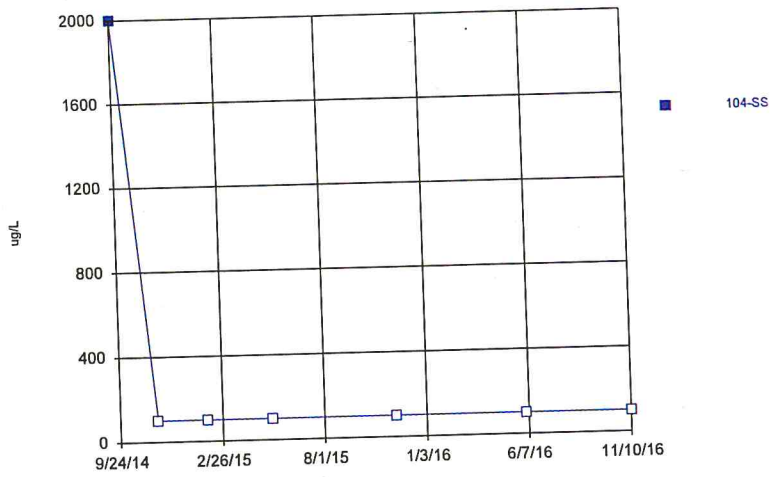
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: p-Isopropyltoluene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

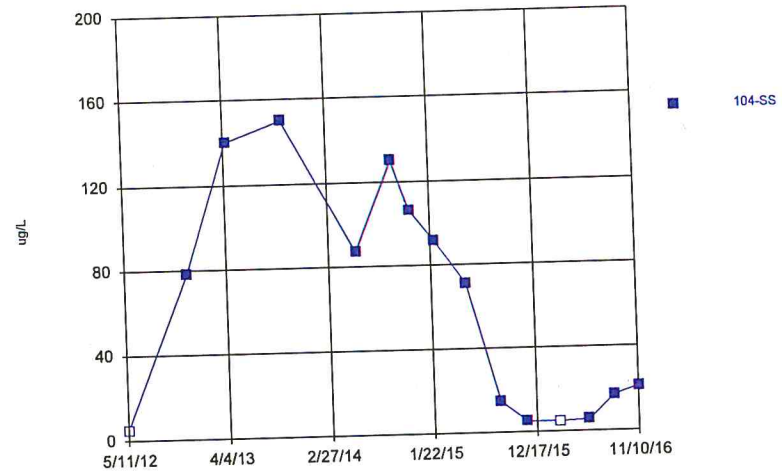
Time Series



Constituent: Tetrahydrofuran Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

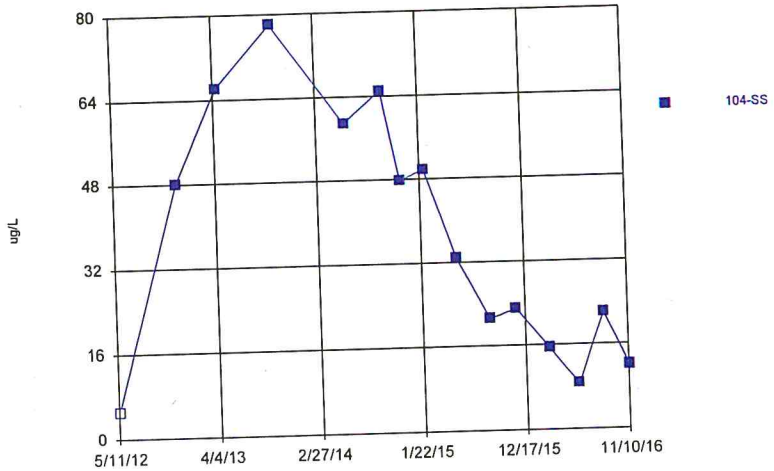
Time Series



Constituent: Toluene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes Total Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX E
STATISTICAL EVALUATIONS
SALEM FORMATION

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	100-SD (bg)	-0.00...	-131	-201	No	40	2.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	104-SD (bg)	0.01592	150	201	No	40	32.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	**106-SD (bg)**	**0.02107**	**403**	**201**	**Yes**	**40**	**40**	**n/a**	**n/a**	**0.02**	**NP**
Ammonia as N (mg/L)	111-SD (bg)	0	-65	-201	No	40	82.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	106-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	100-SD (bg)	0	-12	-201	No	40	90	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**104-SD (bg)**	**0**	**341**	**201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**
Arsenic Total (ug/L)	106-SD (bg)	0	31	201	No	40	77.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	111-SD (bg)	0	114	201	No	40	97.5	n/a	n/a	0.02	NP
Barium Total (ug/L)	100-SD (bg)	0.9366	131	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**104-SD (bg)**	**9.667**	**437**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**106-SD (bg)**	**4.028**	**455**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Barium Total (ug/L)	**111-SD (bg)**	**0.5406**	**269**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Beryllium Total (ug/L)	100-SD (bg)	0	17	201	No	40	97.5	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	104-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	106-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	111-SD (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	**104-SD (bg)**	**0**	**283**	**201**	**Yes**	**40**	**75**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	106-SD (bg)	0	154	201	No	40	85	n/a	n/a	0.02	NP
Boron Total (ug/L)	111-SD (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	100-SD (bg)	0	-66	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	104-SD (bg)	0	-12	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	106-SD (bg)	0	34	201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	111-SD (bg)	0	-35	-201	No	40	100	n/a	n/a	0.02	NP
Calcium Total (ug/L)	100-SD (bg)	-199.7	-173	-201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	104-SD (bg)	275	179	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**106-SD (bg)**	**963.8**	**234**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	111-SD (bg)	0	-1	-201	No	40	0	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**100-SD (bg)**	**0**	**-356**	**-201**	**Yes**	**40**	**92.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	**104-SD (bg)**	**1.603**	**366**	**201**	**Yes**	**40**	**62.5**	**n/a**	**n/a**	**0.02**	**NP**
Chemical Oxygen Demand [COD] (m...	106-SD (bg)	0	123	201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**111-SD (bg)**	**0**	**-366**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	100-SD (bg)	0	31	201	No	40	90	n/a	n/a	0.02	NP
Chloride (mg/L)	**104-SD (bg)**	**7.593**	**494**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**106-SD (bg)**	**-0.5238**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**111-SD (bg)**	**-0.3646**	**-583**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chromium Total (ug/L)	100-SD (bg)	0	-201	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	104-SD (bg)	0	126	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	106-SD (bg)	0	24	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	111-SD (bg)	0	-113	-201	No	40	95	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	104-SD (bg)	0	-87	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	106-SD (bg)	0	-5	-201	No	40	90	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	104-SD (bg)	0	-37	-201	No	40	95	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Copper Total (ug/L)	106-SD (bg)	0	-59	-201	No	40	95	n/a	n/a	0.02	NP
Copper Total (ug/L)	111-SD (bg)	0	-170	-201	No	40	95	n/a	n/a	0.02	NP
Fluoride (mg/L)	100-SD (bg)	0	-24	-186	No	38	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	104-SD (bg)	-0.00...	-133	-186	No	38	5.263	n/a	n/a	0.02	NP
Fluoride (mg/L)	106-SD (bg)	0.009986	129	186	No	38	2.632	n/a	n/a	0.02	NP
Fluoride (mg/L)	111-SD (bg)	0.000...	76	186	No	38	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	100-SD (bg)	0	-54	-201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**104-SD (bg)**	**3.617**	**289**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**106-SD (bg)**	**5.378**	**273**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	111-SD (bg)	0	5	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**100-SD (bg)**	**-43.81**	**-299**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	104-SD (bg)	96.79	157	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**106-SD (bg)**	**133.3**	**256**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	111-SD (bg)	-44.22	-199	-201	No	40	0	n/a	n/a	0.02	NP
Lead Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	106-SD (bg)	0	96	201	No	40	97.5	n/a	n/a	0.02	NP
Lead Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	100-SD (bg)	3.08	70	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**104-SD (bg)**	**595.7**	**376**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**106-SD (bg)**	**446.9**	**249**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	111-SD (bg)	-31.99	-67	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**100-SD (bg)**	**-6.669**	**-667**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	104-SD (bg)	1.929	171	201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	106-SD (bg)	-2.705	-60	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**111-SD (bg)**	**-0.7201**	**-457**	**-201**	**Yes**	**40**	**45**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	104-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	106-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	111-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	104-SD (bg)	0	198	201	No	40	75	n/a	n/a	0.02	NP
Nickel Total (ug/L)	106-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
Nickel Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	104-SD (bg)	0	-8	-201	No	40	95	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	106-SD (bg)	0	-63	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	111-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
pH [Field] (su)	100-SD (bg)	-0.01949	-136	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**104-SD (bg)**	**-0.04514**	**-318**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**106-SD (bg)**	**-0.03461**	**-354**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	111-SD (bg)	-0.01585	-138	-201	No	40	0	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**100-SD (bg)**	**-0.00...**	**-354**	**-201**	**Yes**	**40**	**65**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	104-SD (bg)	0	116	201	No	40	47.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	106-SD (bg)	0.004108	185	201	No	40	15	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	111-SD (bg)	0	3	201	No	40	72.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	106-SD (bg)	0	74	201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Silver Total (ug/L)	100-SD (bg)	0	-25	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	104-SD (bg)	0	-28	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	106-SD (bg)	0	-63	-194	No	39	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	111-SD (bg)	0	-98	-194	No	39	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**100-SD (bg)**	**-253.5**	**-546**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**104-SD (bg)**	**3202**	**597**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**106-SD (bg)**	**-1074**	**-298**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	111-SD (bg)	-74.78	-132	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	100-SD (bg)	-0.9396	-91	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**104-SD (bg)**	**26.36**	**365**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	106-SD (bg)	-4.65	-136	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**111-SD (bg)**	**-4.974**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	100-SD (bg)	0	29	201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	104-SD (bg)	-1.274	-176	-201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**106-SD (bg)**	**-4.359**	**-587**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**111-SD (bg)**	**-0.7977**	**-581**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**100-SD (bg)**	**0**	**-303**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**104-SD (bg)**	**0**	**-270**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**106-SD (bg)**	**0**	**-270**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**111-SD (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**100-SD (bg)**	**-2.689**	**-301**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**104-SD (bg)**	**16.66**	**360**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	106-SD (bg)	-7.344	-193	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**111-SD (bg)**	**-2.784**	**-253**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	100-SD (bg)	0	-82	-201	No	40	32.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**104-SD (bg)**	**0.2006**	**433**	**201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	**106-SD (bg)**	**0.07738**	**270**	**201**	**Yes**	**40**	**35**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	111-SD (bg)	0	145	201	No	40	42.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	104-SD (bg)	0	159	201	No	40	87.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	106-SD (bg)	0	109	201	No	40	90	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	111-SD (bg)	0	9	201	No	40	97.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	**100-SD (bg)**	**0**	**-218**	**-201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**
Zinc Total (ug/L)	104-SD (bg)	0	-111	-201	No	40	77.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	106-SD (bg)	0	-166	-201	No	40	80	n/a	n/a	0.02	NP
Zinc Total (ug/L)	111-SD (bg)	0	-162	-201	No	40	82.5	n/a	n/a	0.02	NP

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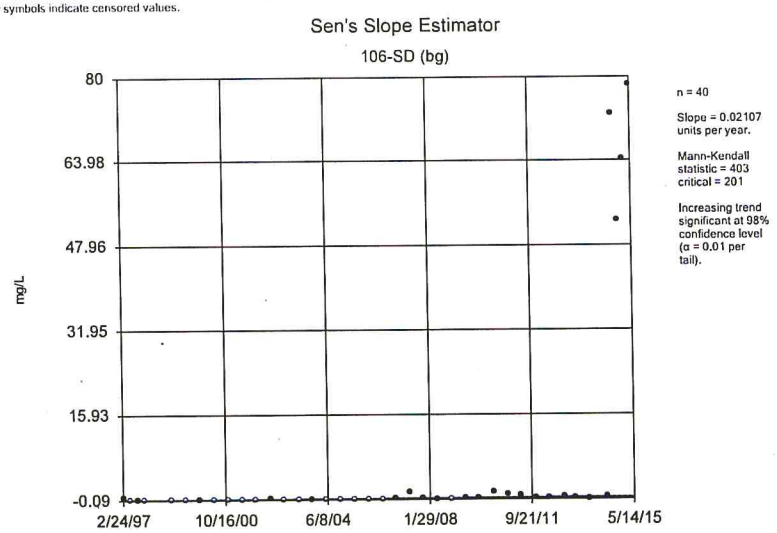
Hollow symbols indicate censored values.



Constituent: Ammonia as N Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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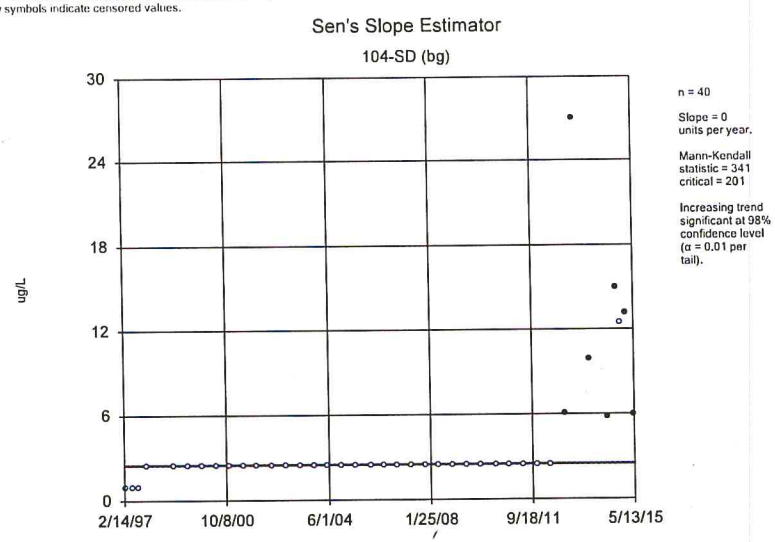
Hollow symbols indicate censored values.



Constituent: Arsenic Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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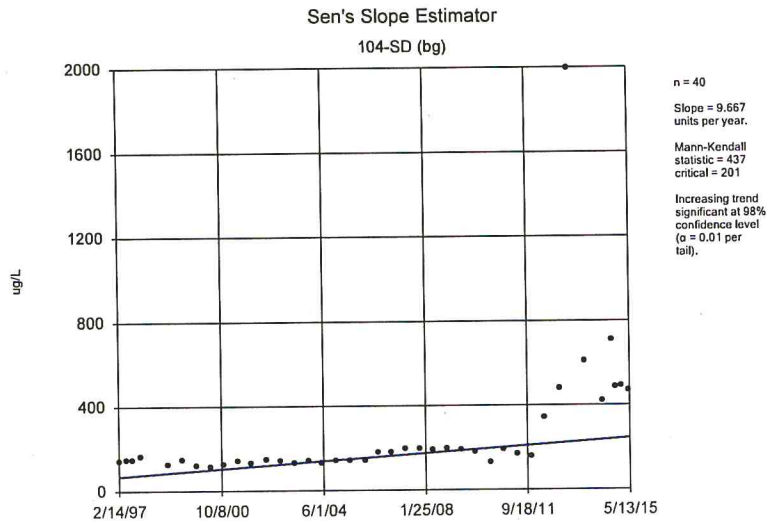

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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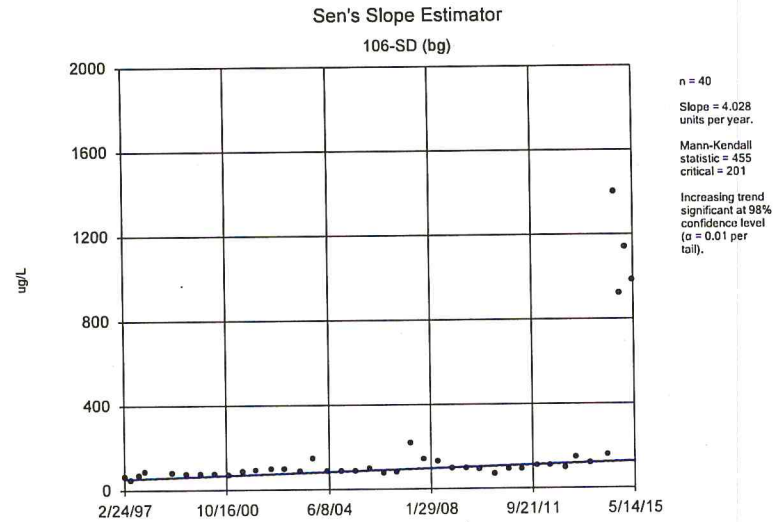

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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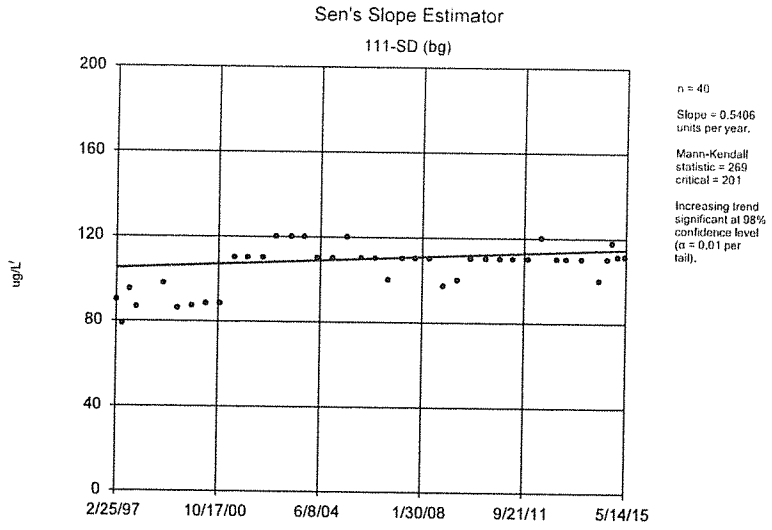

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
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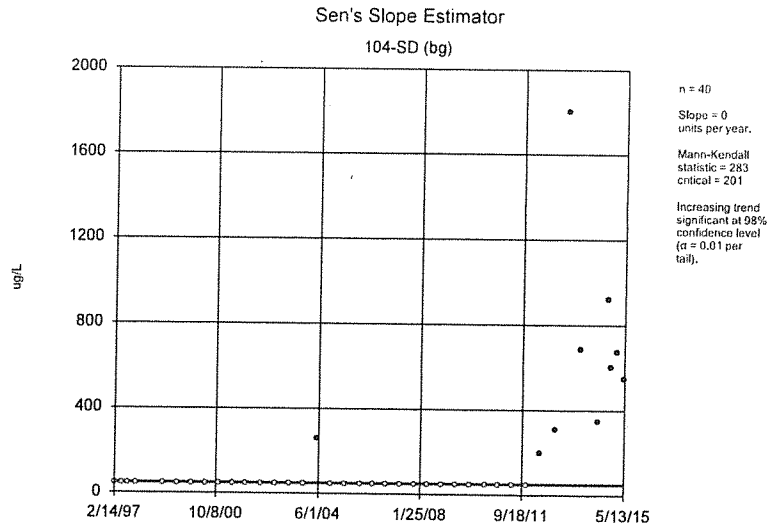

Constituent: Boron Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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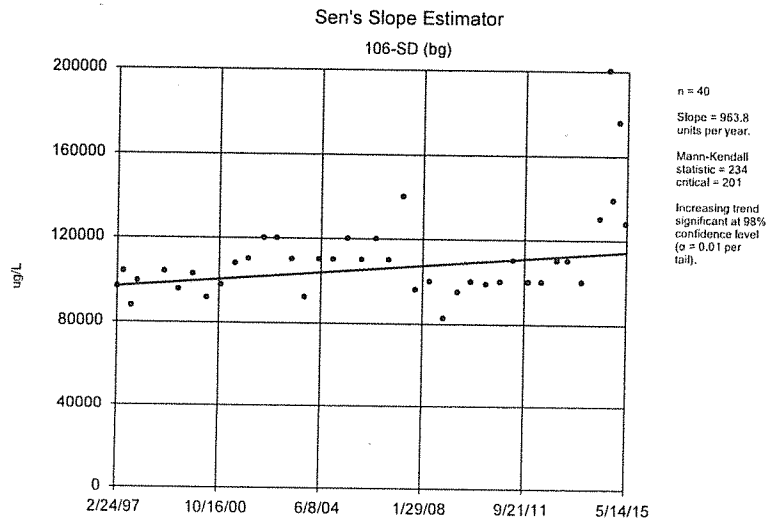

Constituent: Calcium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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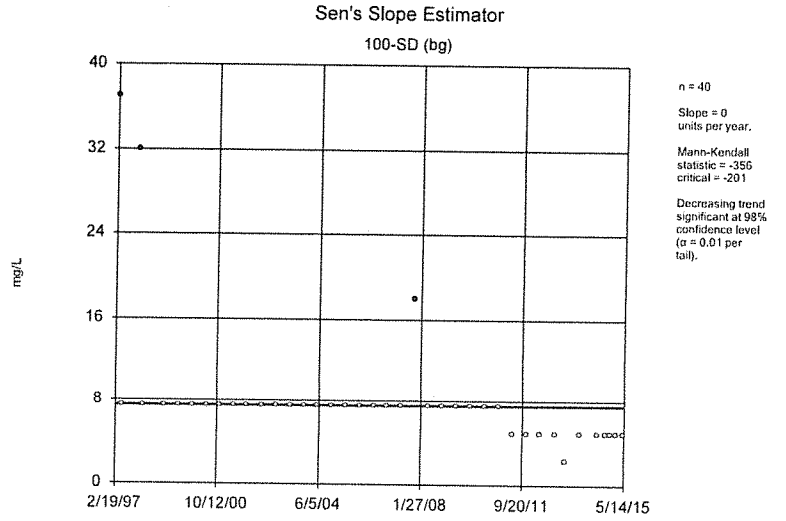
Hollow symbols indicate censored values.



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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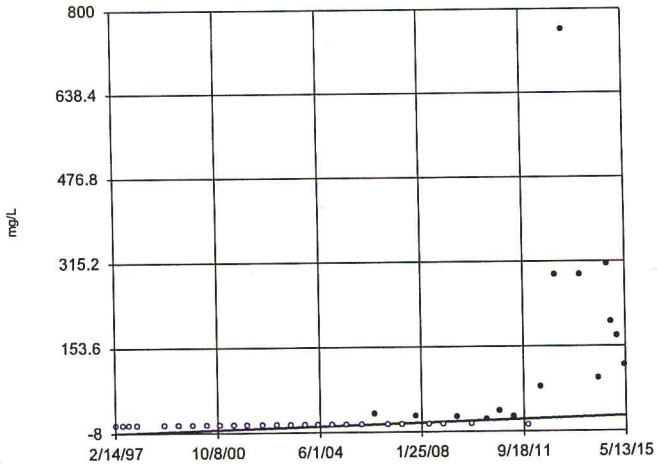
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 1.603 units per year.

Mann-Kendall statistic = 366 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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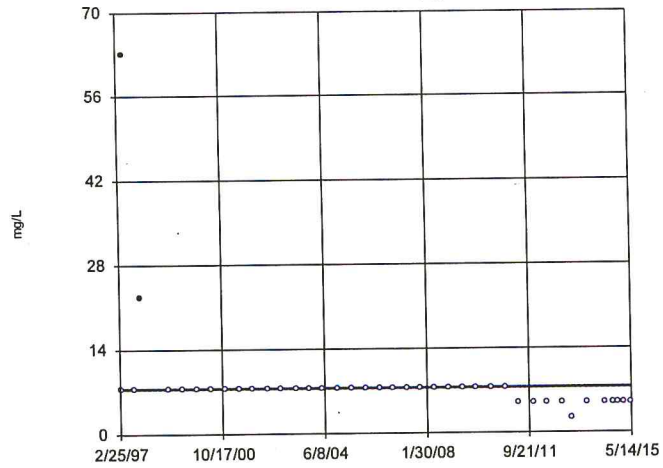
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -366 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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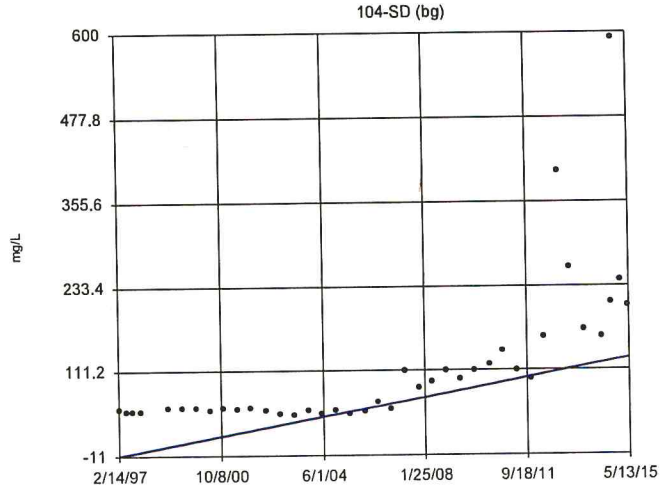
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 7.593 units per year.

Mann-Kendall statistic = 494 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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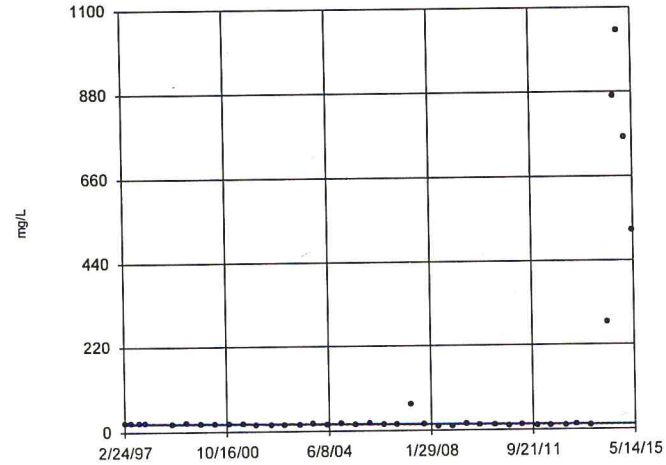
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.5238 units per year.

Mann-Kendall statistic = -243 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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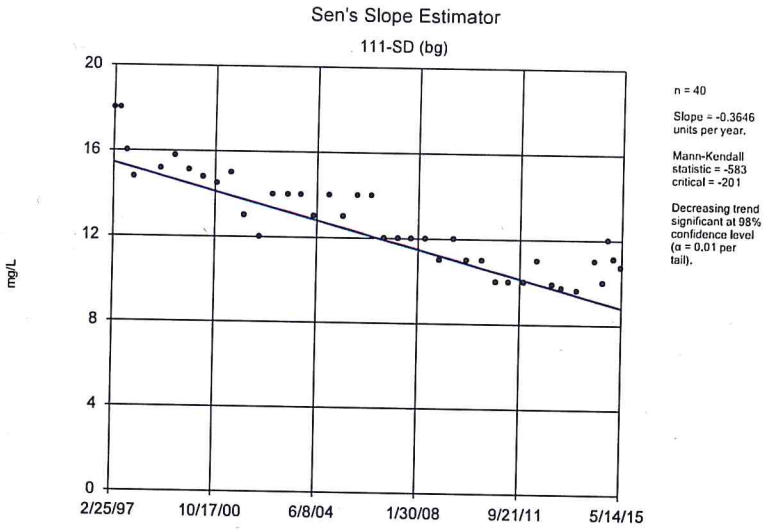

n = 40

Slope = -0.3646 units per year.

Mann-Kendall statistic = -583 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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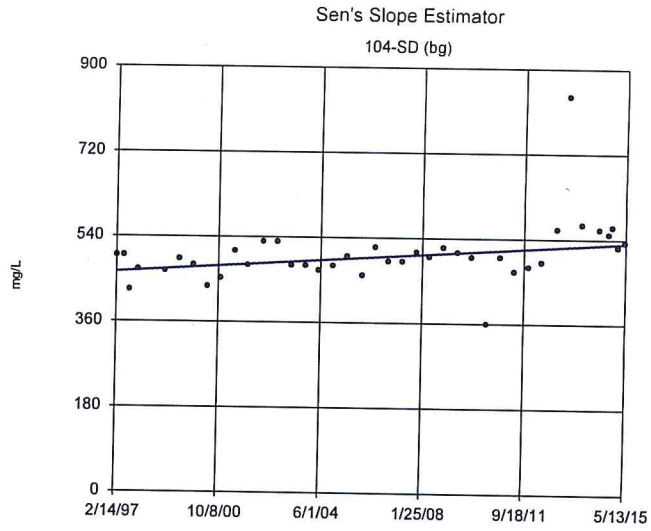

n = 40

Slope = 3.617 units per year.

Mann-Kendall statistic = 289 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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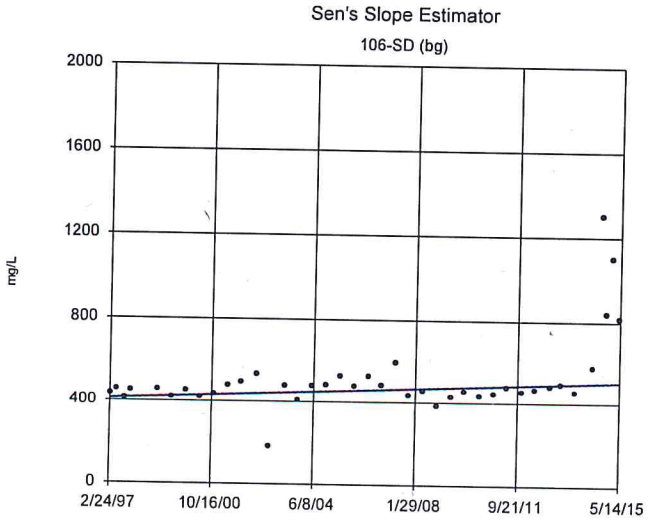

n = 40

Slope = 5.378 units per year.

Mann-Kendall statistic = 273 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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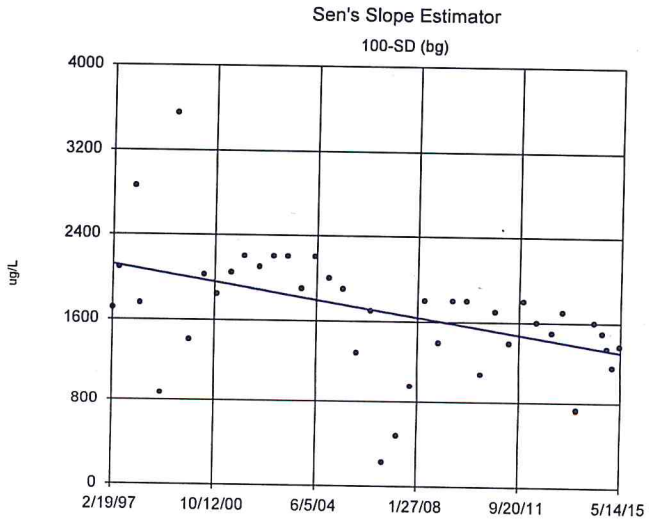

n = 40

Slope = -43.81 units per year.

Mann-Kendall statistic = -299 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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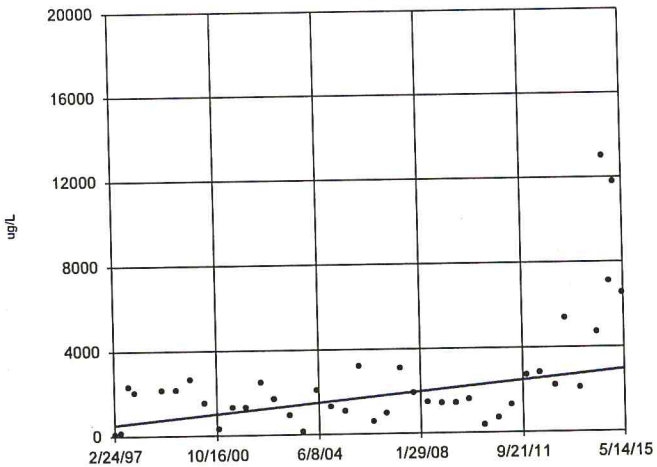
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 133.3 units per year.

Mann-Kendall statistic = 256 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

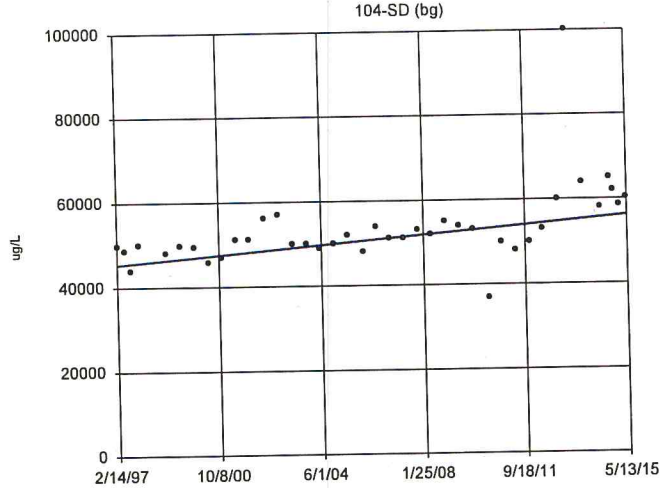
Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 595.7 units per year.

Mann-Kendall statistic = 376 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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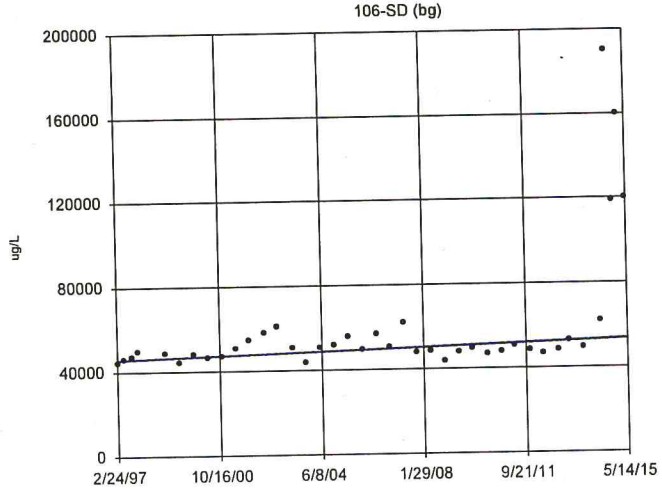
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 446.9 units per year.

Mann-Kendall statistic = 249 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

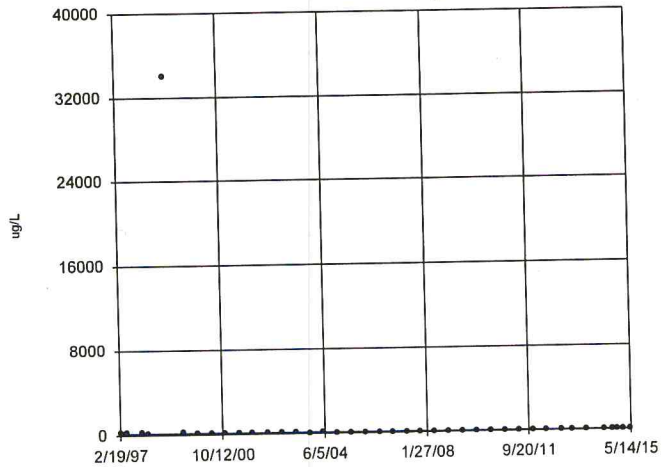
Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -6.669 units per year.

Mann-Kendall statistic = -667 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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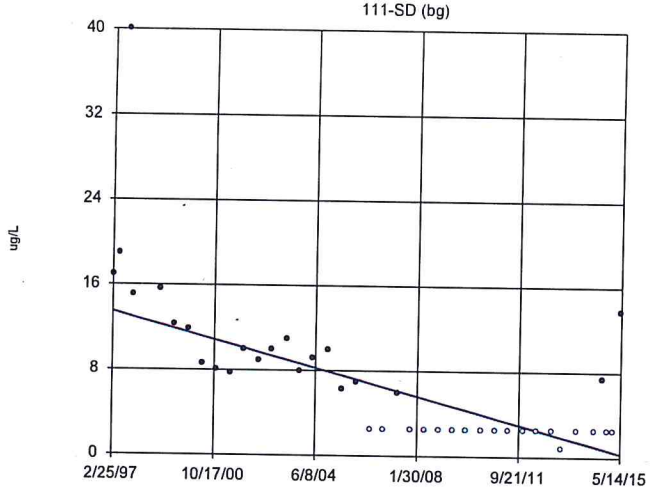
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -0.7201 units per year.

Mann-Kendall statistic = -457
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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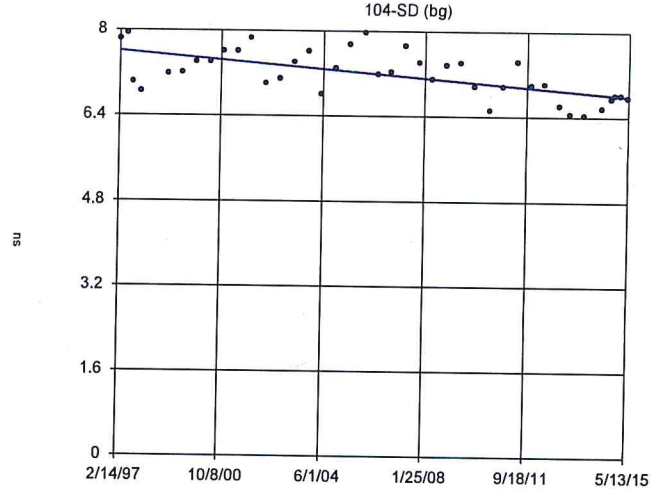
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = -0.04514 units per year.

Mann-Kendall statistic = -318
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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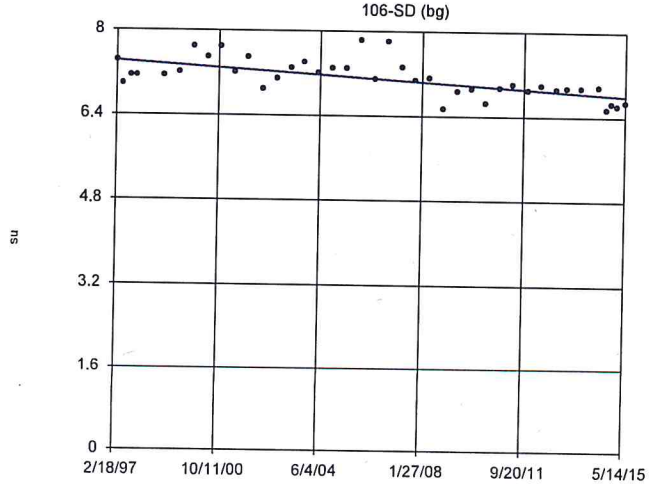
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.03461 units per year.

Mann-Kendall statistic = -354
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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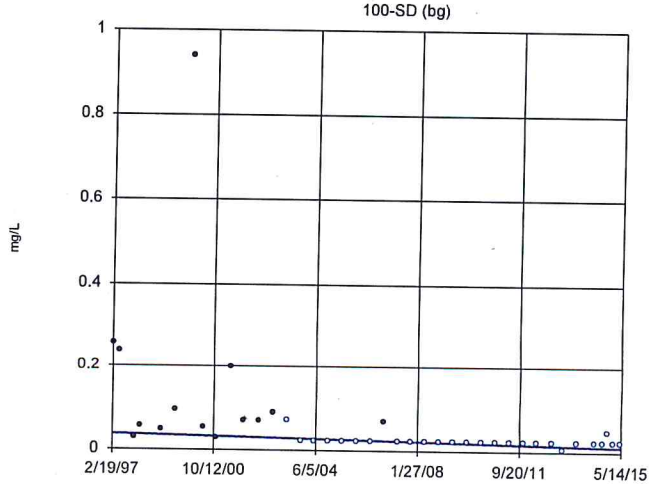
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -0.001393 units per year.

Mann-Kendall statistic = -354
critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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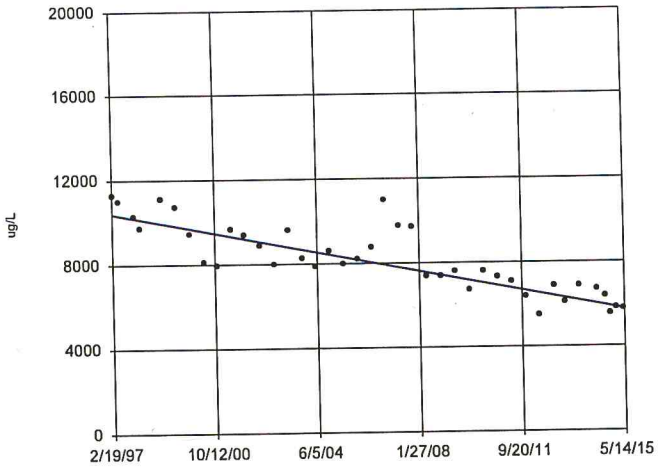
Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = -253.5 units per year.

Mann-Kendall statistic = -546 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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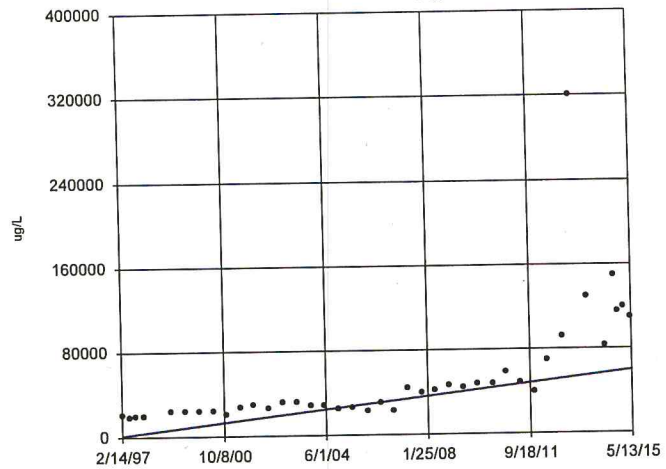
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 3202 units per year.

Mann-Kendall statistic = 597 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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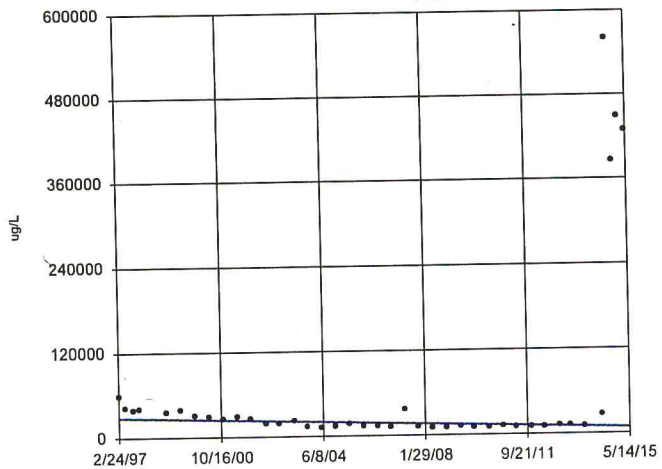
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -1074 units per year.

Mann-Kendall statistic = -298 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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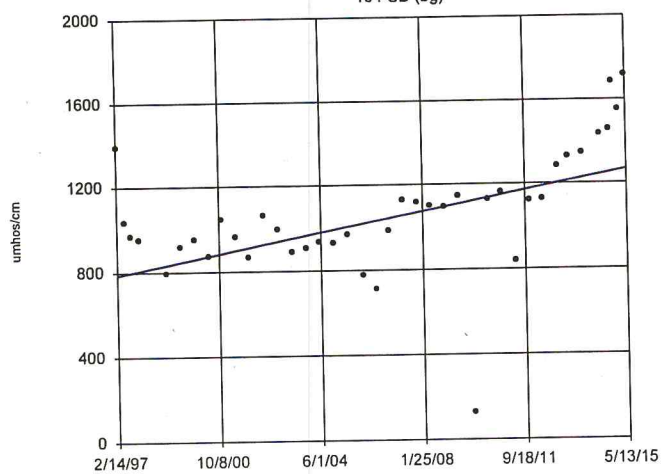
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 26.36 units per year.

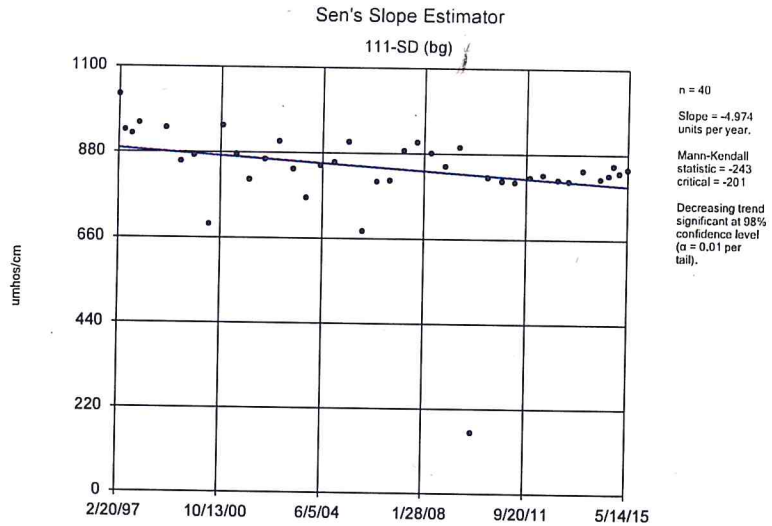
Mann-Kendall statistic = 365 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM

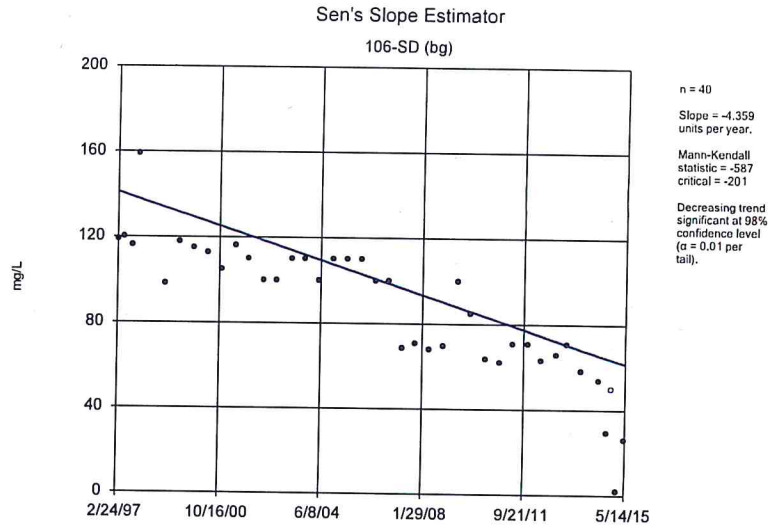
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



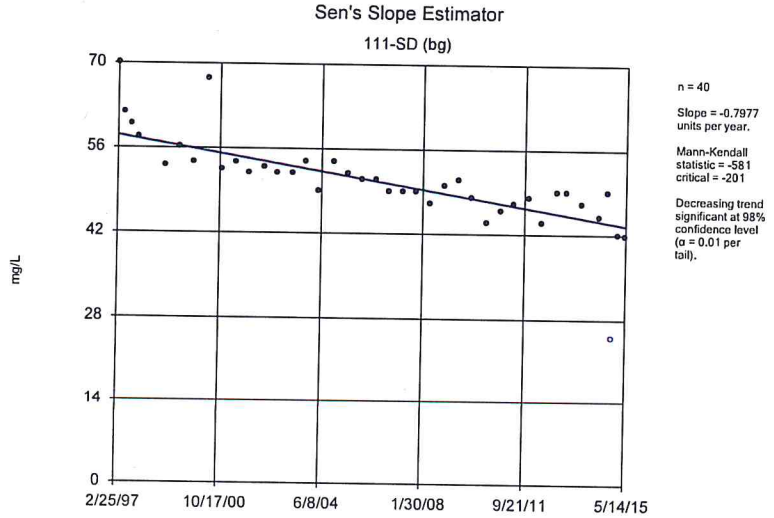
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



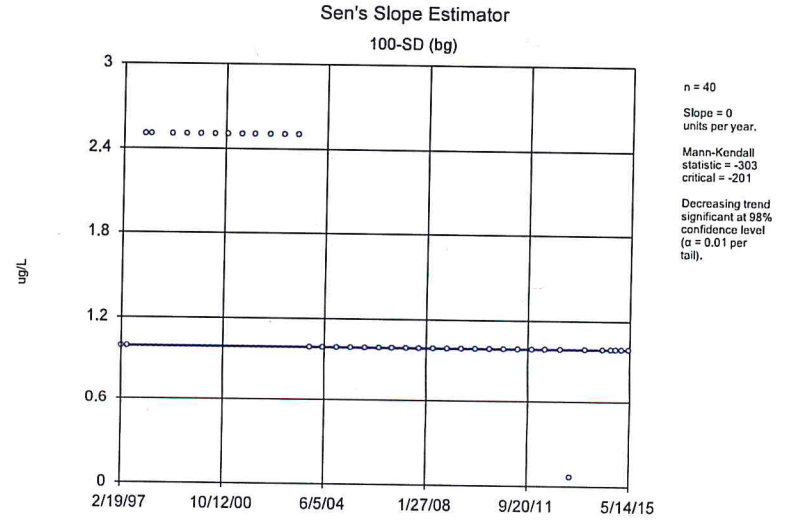
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

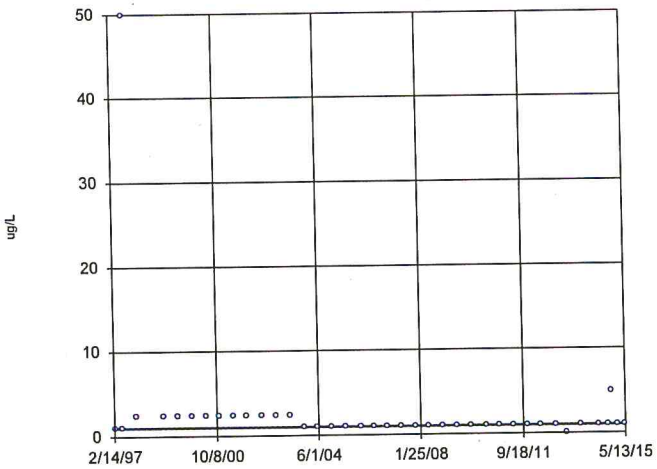


Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -270 critical = -201

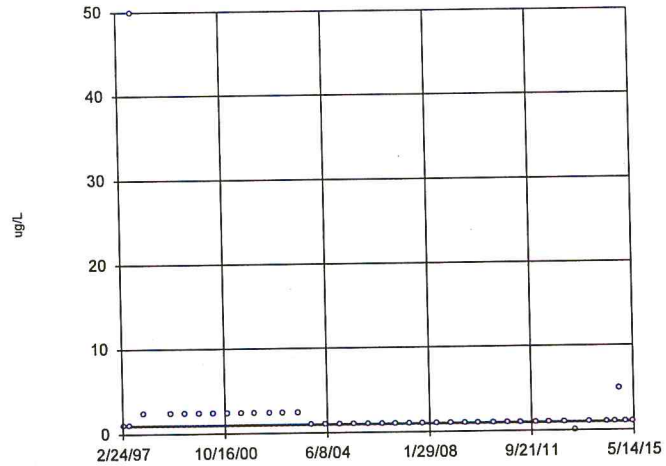
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -270 critical = -201

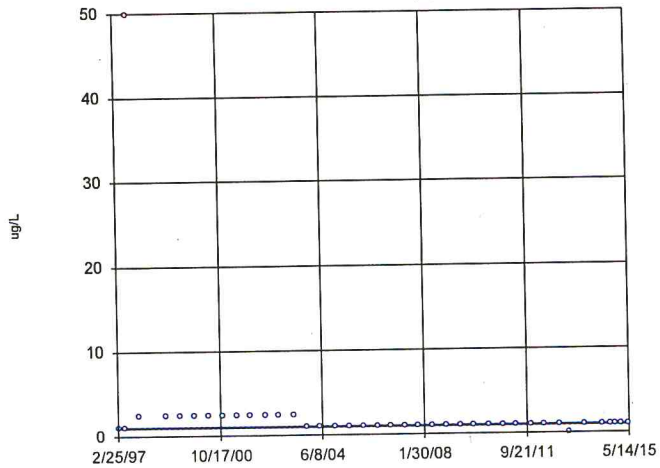
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -314 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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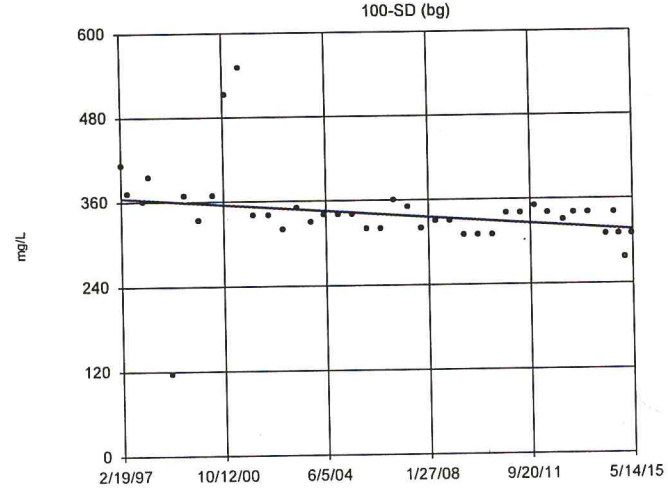
Sen's Slope Estimator

100-SD (bg)



n = 40

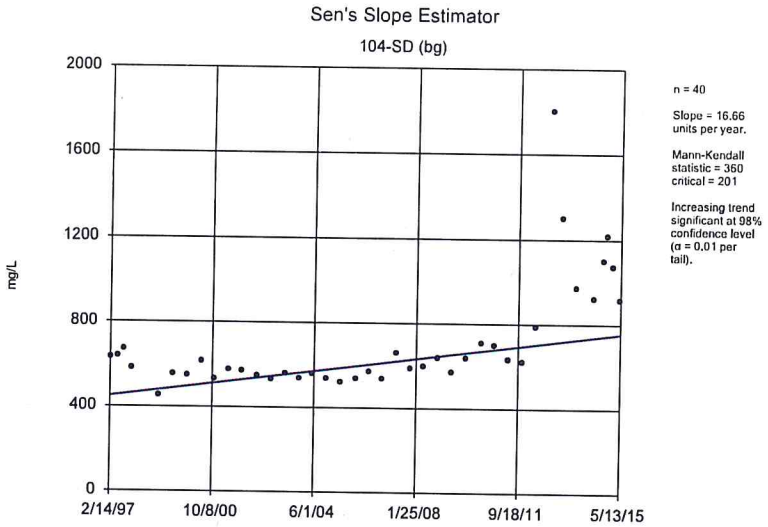
Slope = -2.689 units per year.

Mann-Kendall statistic = -301 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



n = 40

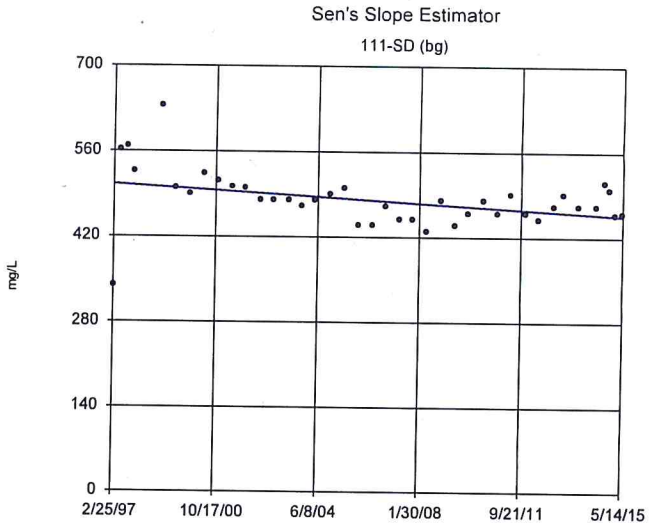
Slope = 16.66 units per year.

Mann-Kendall statistic = 360 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG



n = 40

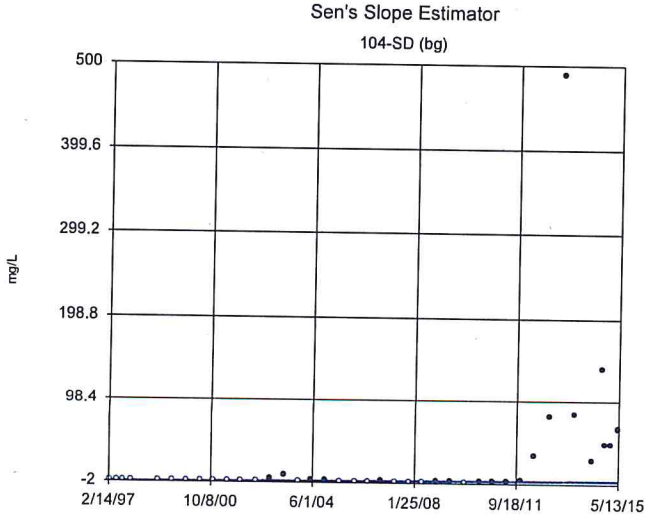
Slope = -2.784 units per year.

Mann-Kendall statistic = -253 critical = -201

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



n = 40

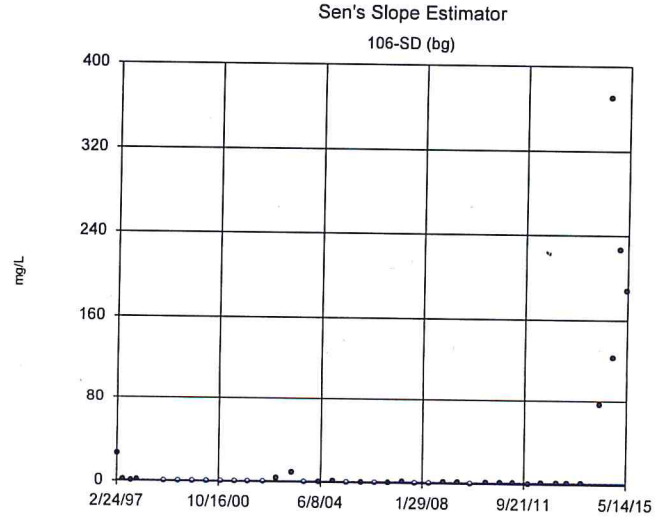
Slope = 0.2006 units per year.

Mann-Kendall statistic = 433 critical = 201

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



n = 40

Slope = 0.07738 units per year.

Mann-Kendall statistic = 270 critical = 201

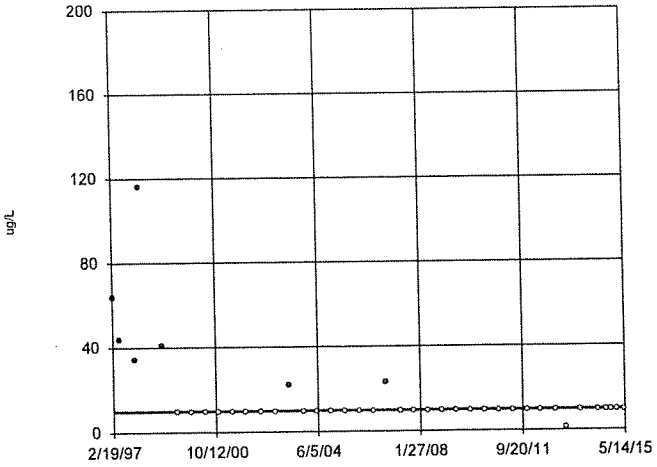
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.29 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -218
critical = -201

Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Zinc Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

INTRA-WELL PREDICTION LIMITS

Background data were evaluated for increasing statistical trends (or either increasing or decreasing trends for field pH). In those cases where the background data were determined to exhibit a statistical trend, typically the most recent background data were excluded until the data no longer exhibited a statistical trend. For each of the constituent-well pairs listed below, the specified modified background data period was utilized in the determination of the intra-well prediction limit.

Salem Formation Zone

- Ammonia as N at PZ-106-SD (2/97 through 11/10)
- Barium (Total) at PZ-104-SD (2/97 through 5/10)
- Barium (Total) at PZ-106-SD (2/97 through 11/01)
- Barium (Total) at PZ-111-SD (2/97 through 5/02)
- Calcium (Total) at PZ-106-SD (2/97 through 11/14)
- Chemical oxygen demand at PZ-104-SD (2/97 through 5/14)
- Chloride at PZ-104-SD (2/97 through 5/09)
- Hardness (Total) at PZ-104-SD (2/97 through 10/13)
- Hardness (Total) at PZ-106-SD (2/97 through 9/14)
- Iron (Total) at PZ-106-SD (2/97 through 9/14)
- Magnesium (Total) at PZ-104-SD (2/97 through 5/12)
- Magnesium (Total) at PZ-106-SD (2/97 through 11/14)
- pH (Field) at PZ-104-SD (2/97 through 4/13)
- pH (Field) at PZ-106-SD (2/97 through 11/11)
- Sodium (Total) at PZ-104-SD (2/97 through 5/01)
- Specific conductance (Field) at PZ-104-SD (2/97 through 4/13)
- Total dissolved solids at PZ-104-SD (2/97 through 11/12)
- Total organic carbon at PZ-104-SD (2/97 through 5/12)
- Total organic carbon at PZ-106-SD (2/97 through 9/14)

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 9:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	100-SD	0.63	n/a	11/10/2016	0.46	No	37	0.4359	0.07903	0	None	No	0.0001937	Param Intra 1 of 2
Ammonia as N (mg/L)	104-SD	66	n/a	11/9/2016	45.8	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Ammonia as N (mg/L)	**106-SD**	**1.4**	**n/a**	**11/8/2016**	**45**	**Yes**	**29**	**n/a**	**n/a**	**55.17**	**n/a**	**n/a**	**0.002152**	**NP Intra (NDs) 1 of 2**
Ammonia as N (mg/L)	111-SD	0.35	n/a	11/8/2016	0.15	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SD	2.5	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SD	50	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SD	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	111-SD	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SD	15	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SD	27	n/a	11/9/2016	20.2	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SD	12	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	77.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	111-SD	5.3	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SD	340	n/a	11/10/2016	323	No	40	7.4e9	2.2e9	0	None	x^4	0.0001937	Param Intra 1 of 2
Barium Total (ug/L)	**104-SD**	**230**	**n/a**	**11/9/2016**	**647**	**Yes**	**28**	**5.011**	**0.17**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	**106-SD**	**100**	**n/a**	**11/8/2016**	**470**	**Yes**	**11**	**465937**	**199834**	**0**	**None**	**x^3**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	111-SD	130	n/a	11/8/2016	102	No	12	4.538	0.1113	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Beryllium Total (ug/L)	100-SD	2.2	n/a	11/10/2016	1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SD	5.0	n/a	11/9/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SD	5.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	111-SD	1.0	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	100-SD	50	n/a	11/10/2016	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	104-SD	1800	n/a	11/9/2016	1110	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SD	2900	n/a	11/8/2016	943	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	111-SD	100	n/a	11/8/2016	50ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SD	2.5	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SD	2.5	n/a	11/9/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SD	2.5	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	111-SD	2.5	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	100-SD	88000	n/a	11/10/2016	75400	No	40	11.25	0.05606	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	104-SD	170000	n/a	11/9/2016	97800	No	36	n/a	n/a	0	n/a	n/a	0.00142	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	106-SD	140000	n/a	11/8/2016	97200	No	37	11.57	0.1154	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	111-SD	100000	n/a	11/8/2016	84900	No	38	7.5e14	1.2e14	0	None	x^3	0.0001937	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SD	37	n/a	11/10/2016	5ND	No	40	n/a	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SD	760	n/a	11/9/2016	266	No	40	n/a	n/a	62.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	11/8/2016	117	No	40	n/a	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	111-SD	63	n/a	11/8/2016	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	100-SD	13	n/a	11/10/2016	1.6	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	**104-SD**	**110**	**n/a**	**11/9/2016**	**261**	**Yes**	**26**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002637**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	106-SD	1000	n/a	11/8/2016	216	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chloride (mg/L)	111-SD	19	n/a	11/8/2016	10.2	No	40	2.531	0.173	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Chromium Total (ug/L)	100-SD	13	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	**104-SD**	**13**	**n/a**	**11/9/2016**	**14.8**	**Yes**	**40**	**n/a**	**n/a**	**82.5**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Chromium Total (ug/L)	106-SD	42	n/a	11/8/2016	5.2	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	111-SD	22	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SD	10	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	104-SD	10	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SD	12	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	111-SD	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SD	10	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SD	13	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 9:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Copper Total (ug/L)	106-SD	47	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	111-SD	10	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	100-SD	2.4	n/a	11/10/2016	2.2	No	26	4.154	0.6542	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	104-SD	1	n/a	11/9/2016	0.8	No	22	0.6967	0.1384	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	106-SD	1.5	n/a	11/8/2016	1.2	No	23	1.552	0.68	0	None	x^3	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	111-SD	2.4	n/a	11/8/2016	2	No	25	18.37	5.15	0	None	x^4	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	100-SD	380	n/a	11/10/2016	335	No	39	5.824	0.04847	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	104-SD	570	n/a	11/9/2016	514	No	34	1.2e8	2.6e7	0	None	x^3	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	106-SD	590	n/a	11/8/2016	522	No	35	6.15	0.09469	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	111-SD	500	n/a	11/8/2016	424	No	38	7.638	0.1242	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	100-SD	2900	n/a	11/10/2016	802	No	39	1623	514.4	0	None	No	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	104-SD	31000	n/a	11/9/2016	12600	No	40	7.096	1.332	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	106-SD	8600	n/a	11/8/2016	1800	No	37	11.73	3.576	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	111-SD	8200	n/a	11/8/2016	897	No	40	6.026	1.228	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Lead Total (ug/L)	100-SD	2.5	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	104-SD	25	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SD	25	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	111-SD	25	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SD	40000	n/a	11/10/2016	35700	No	40	10.48	0.04911	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Magnesium Total (ug/L)	**104-SD**	**58000**	**n/a**	**11/9/2016**	**65400**	**Yes**	**31**	**36.99**	**0.6987**	**0**	**None**	**x^(1/3)**	**0.0001937**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	**106-SD**	**63000**	**n/a**	**11/8/2016**	**67700**	**Yes**	**36**	**10.82**	**0.09234**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	111-SD	60000	n/a	11/8/2016	51400	No	39	10.89	0.0489	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	100-SD	34000	n/a	11/10/2016	59.8	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Manganese Total (ug/L)	104-SD	200	n/a	11/9/2016	136	No	40	4.643	0.2679	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	106-SD	560	n/a	11/8/2016	16.8	No	40	5.302	1.222	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	111-SD	40	n/a	11/8/2016	26.5	No	40	n/a	n/a	45	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	100-SD	0.10	n/a	11/10/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	104-SD	0.10	n/a	11/9/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SD	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	111-SD	0.10	n/a	11/8/2016	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SD	20	n/a	11/10/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	**104-SD**	**60**	**n/a**	**11/9/2016**	**67.9**	**Yes**	**40**	**n/a**	**n/a**	**75**	**n/a**	**n/a**	**0.001152**	**NP Intra (NDs) 1 of 2**
Nickel Total (ug/L)	106-SD	60	n/a	11/8/2016	11.1	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	111-SD	20	n/a	11/8/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SD	0.050	n/a	11/10/2016	0.05ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SD	1.3	n/a	11/9/2016	0.1ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SD	0.30	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	111-SD	5.0	n/a	11/8/2016	0.05ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SD	8.2	6.6	11/10/2016	7.22	No	39	1.993	0.04354	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	104-SD	8.2	6.2	11/9/2016	6.77	No	34	53	5.7	0	None	x^2	0.00009683	Param Intra 1 of 2
pH [Field] (su)	106-SD	8	6.5	11/8/2016	6.82	No	31	1.973	0.04295	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	111-SD	8.1	6.4	11/8/2016	7.12	No	39	1.976	0.04679	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SD	0.94	n/a	11/10/2016	0.025ND	No	40	n/a	n/a	65	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	104-SD	0.29	n/a	11/9/2016	0.14	No	40	-3.189	0.7998	47.5	Kaplan-Meier	ln(x)	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	106-SD	0.23	n/a	11/8/2016	0.074	No	40	0.09779	0.05309	15	None	No	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	111-SD	0.37	n/a	11/8/2016	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	100-SD	2.5	n/a	11/10/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SD	50	n/a	11/9/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SD	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	111-SD	50	n/a	11/8/2016	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 1/3/2017, 9:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Silver Total (ug/L)	100-SD	2.5	n/a	11/10/2016	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SD	12	n/a	11/9/2016	2.5ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SD	12	n/a	11/8/2016	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	111-SD	5.0	n/a	11/8/2016	2.5ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SD	13000	n/a	11/10/2016	6560	No	40	20.08	1.372	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	**104-SD**	**34000**	**n/a**	**11/9/2016**	**171000**	**Yes**	**10**	**10**	**0.1276**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Sodium Total (ug/L)	106-SD	560000	n/a	11/8/2016	165000	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sodium Total (ug/L)	111-SD	25000	n/a	11/8/2016	17100	No	38	9.94	0.08286	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SD	710	n/a	11/10/2016	628	No	39	2.5e8	4.1e7	0	None	x^3	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**104-SD**	**1500**	**n/a**	**11/9/2016**	**2110**	**Yes**	**33**	**6.911**	**0.1526**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	**106-SD**	**1200**	**n/a**	**11/8/2016**	**2110**	**Yes**	**36**	**6.803**	**0.1014**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	111-SD	1000	n/a	11/8/2016	853	No	39	731124	112677	0	None	x^2	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	100-SD	15	n/a	11/10/2016	10	No	40	2.323	0.1561	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	104-SD	100	n/a	11/9/2016	1.6	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	106-SD	160	n/a	11/8/2016	42.3	No	40	87.24	31.12	2.5	None	No	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	111-SD	67	n/a	11/8/2016	45.3	No	39	3.932	0.1116	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Thallium Total (ug/L)	100-SD	2.5	n/a	11/10/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SD	50	n/a	11/9/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SD	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	111-SD	50	n/a	11/8/2016	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SD	400	n/a	11/10/2016	315	No	37	5.819	0.07451	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**104-SD**	**780**	**n/a**	**11/9/2016**	**1050**	**Yes**	**32**	**6.38**	**0.11**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**106-SD**	**700**	**n/a**	**11/8/2016**	**1020**	**Yes**	**36**	**538.1**	**65.86**	**0**	**None**	**No**	**0.0001937**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	111-SD	560	n/a	11/8/2016	469	No	38	6.175	0.06301	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SD	29	n/a	11/10/2016	2ND	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	**104-SD**	**32**	**n/a**	**11/9/2016**	**65**	**Yes**	**32**	**n/a**	**n/a**	**62.5**	**n/a**	**n/a**	**0.001789**	**NP Intra (NDs) 1 of 2**
Total Organic Carbon [TOC] (mg/L)	106-SD	370	n/a	11/8/2016	30.1	No	37	n/a	n/a	37.84	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	111-SD	30	n/a	11/8/2016	0.5ND	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SD	5.0	n/a	11/10/2016	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SD	38	n/a	11/9/2016	12.6	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SD	42	n/a	11/8/2016	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	111-SD	33	n/a	11/8/2016	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SD	120	n/a	n/a	1 future	n/a	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	104-SD	96	n/a	n/a	1 future	n/a	40	n/a	n/a	77.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	106-SD	77	n/a	n/a	1 future	n/a	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	111-SD	100	n/a	n/a	1 future	n/a	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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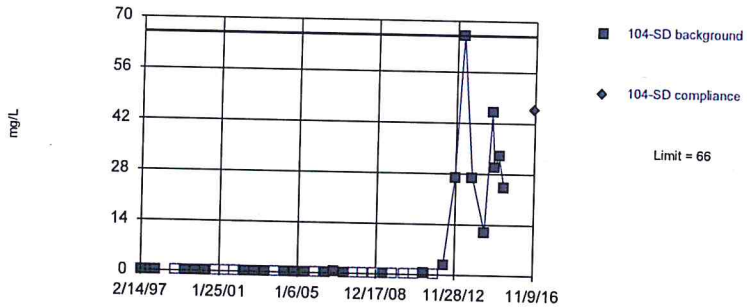
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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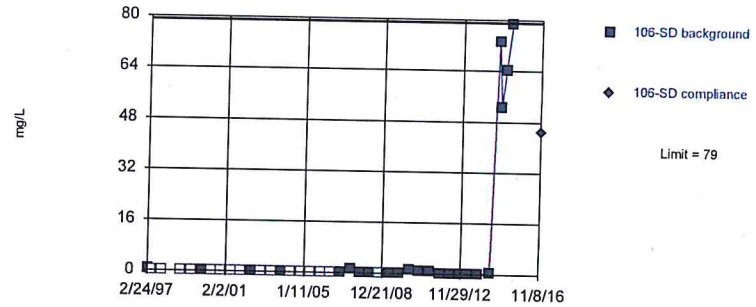
Within Limit

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 40 background values. 40% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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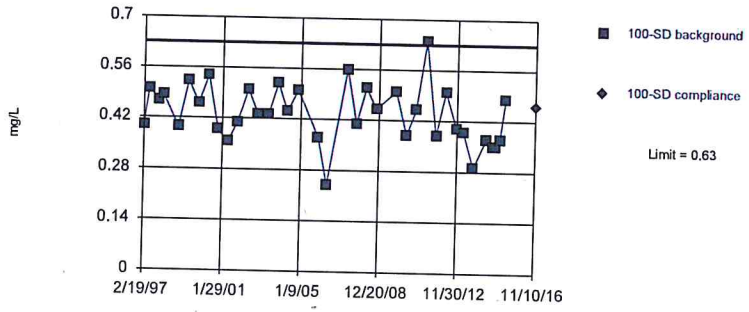
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.4359, Std. Dev.=0.07903, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9826, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: <0.1 (5/24/2005); 0.13 (11/8/2006); 1.2 (5/8/2009).

Constituent: Ammonia as N Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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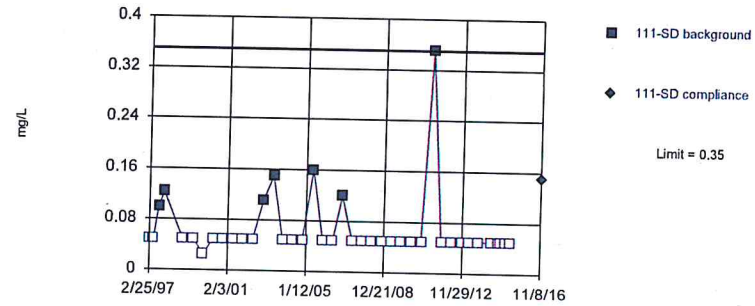
Within Limit

Prediction Limit

Intrawell Non-parametric



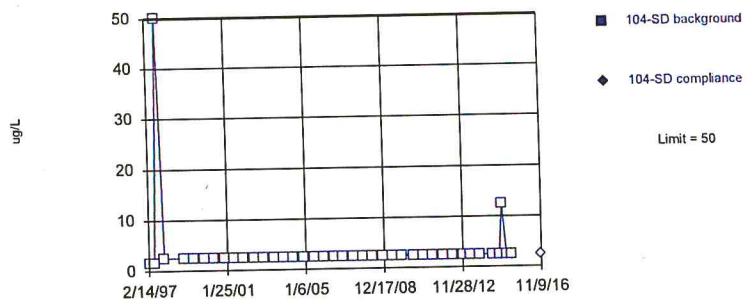
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



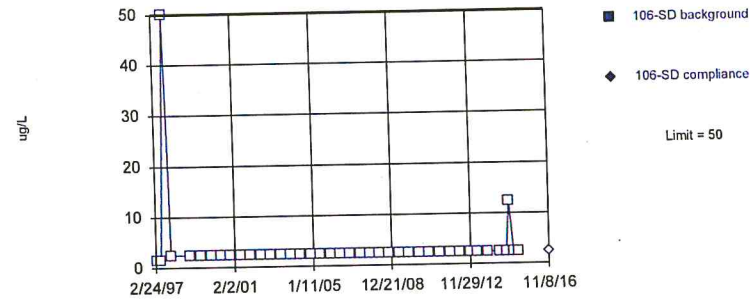
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



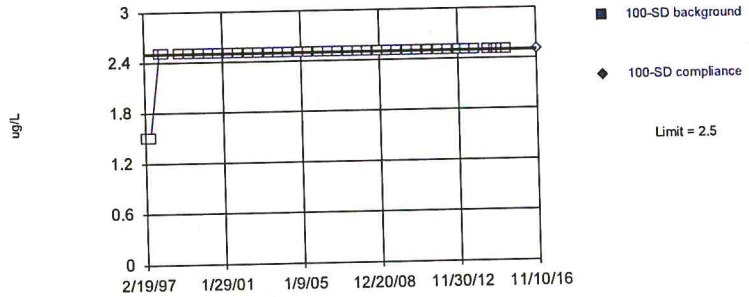
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



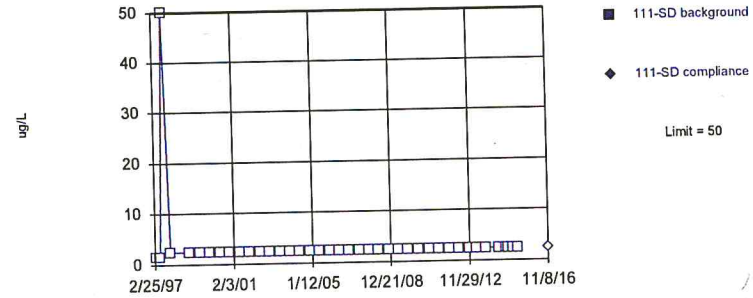
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

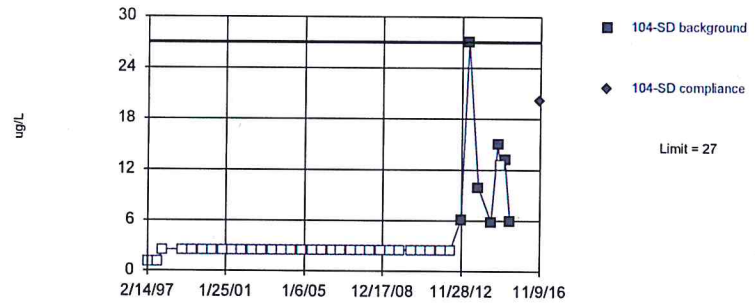
Constituent: Antimony Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

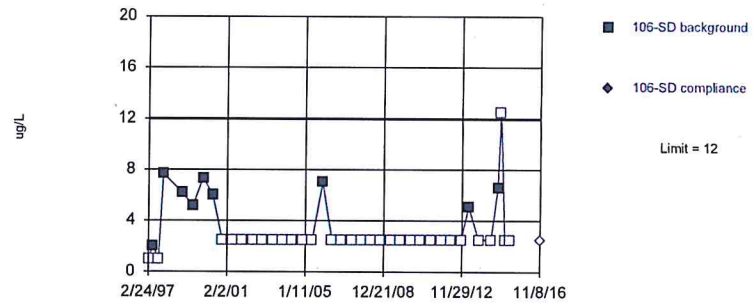
Constituent: Arsenic Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 77.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

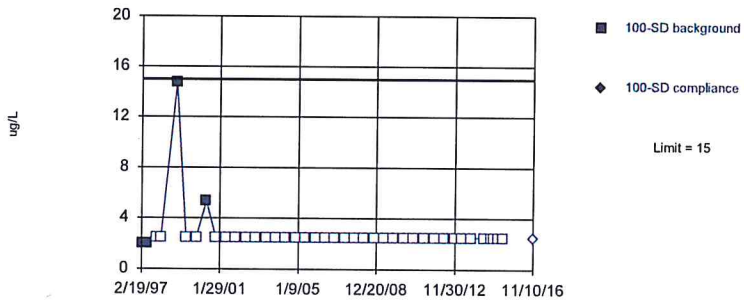
Constituent: Arsenic Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

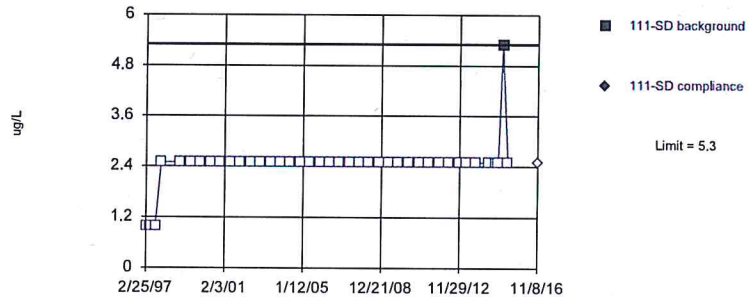
Constituent: Arsenic Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

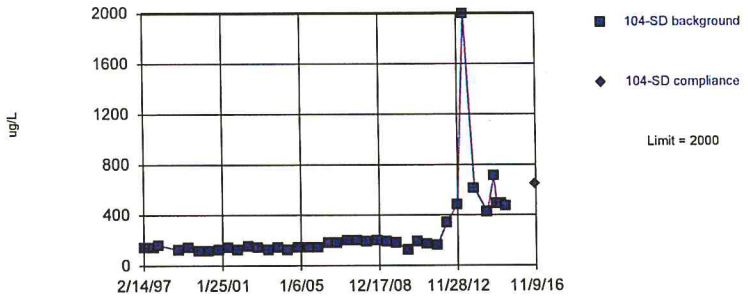
Constituent: Arsenic Total Analysis Run 1/3/2017 8:47 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 1/3/2017 8:47 AM

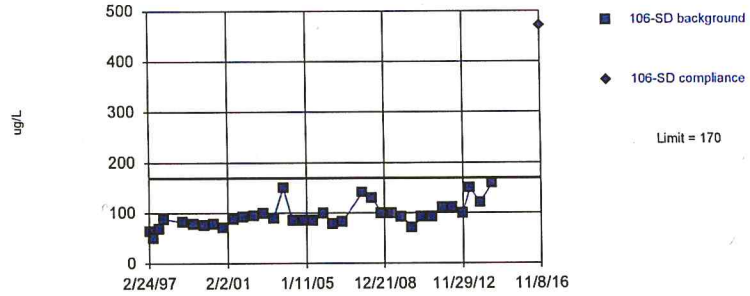
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.53, Std. Dev.=0.2517, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.91. Kappa = 2.466 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Five background outliers were removed: 220 (5/21/2007); 1400 (9/24/2014); 924 (11/20/2014); 1140 (2/4/2015); 985 (5/14/2015).

Constituent: Barium Total Analysis Run 1/3/2017 8:48 AM

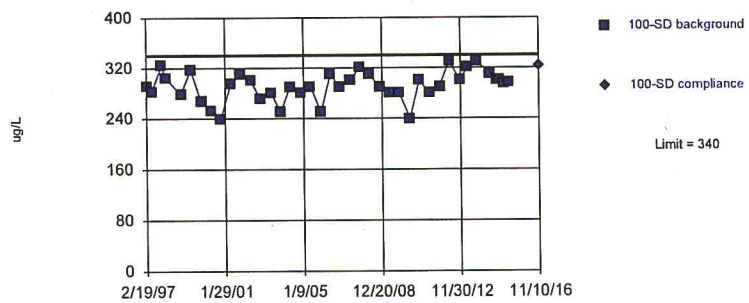
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=7.4e9, Std. Dev.=2.2e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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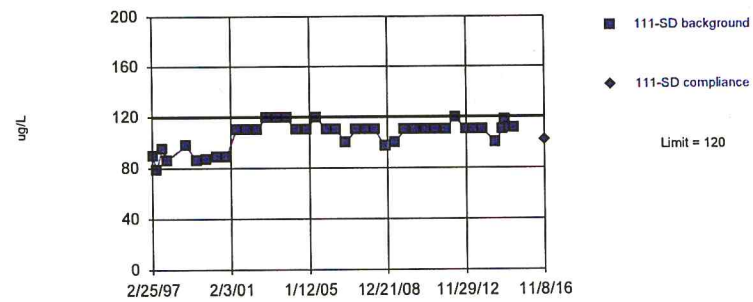
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 1/3/2017 8:48 AM

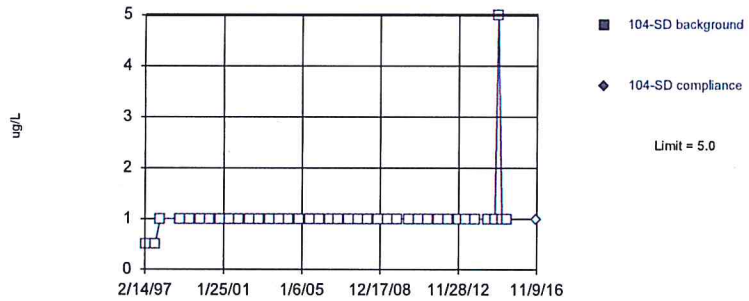
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

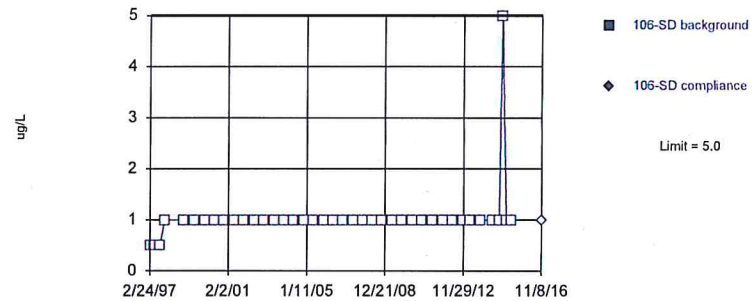
Constituent: Beryllium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

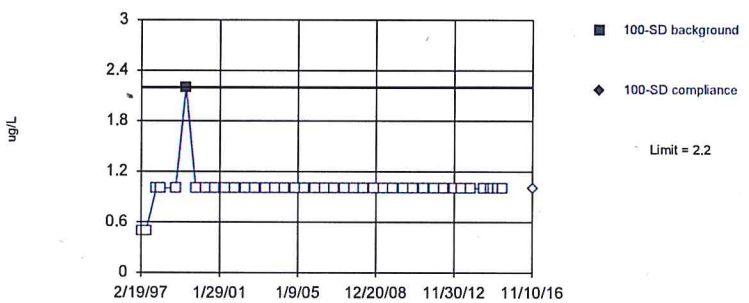
Constituent: Beryllium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

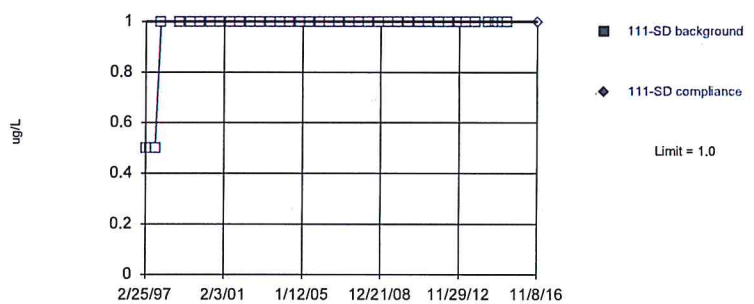
Constituent: Beryllium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

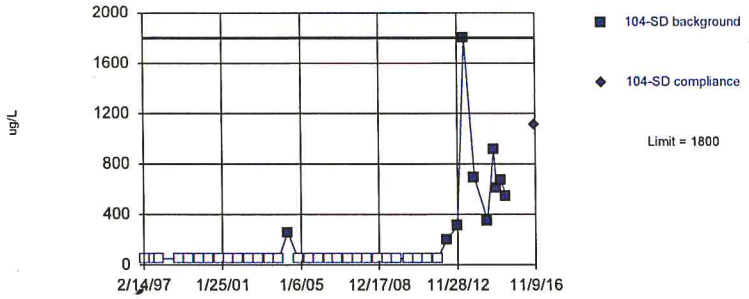
Constituent: Beryllium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

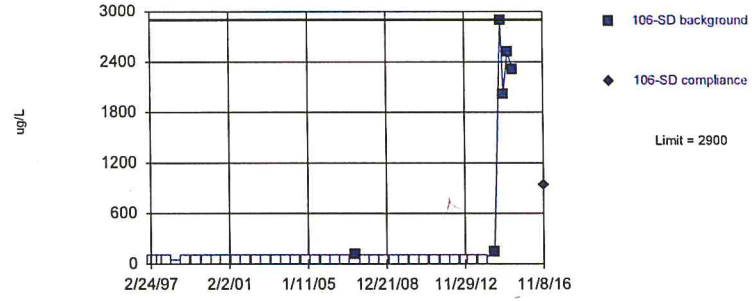
Constituent: Boron Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

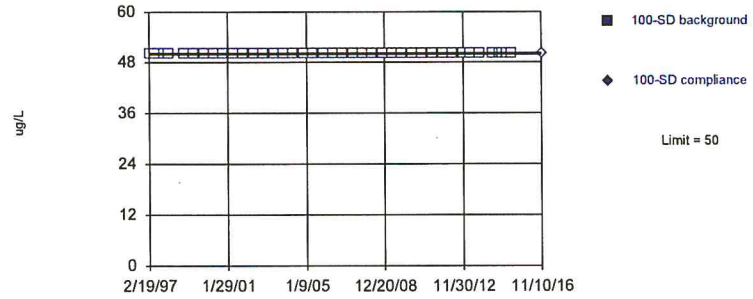
Constituent: Boron Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

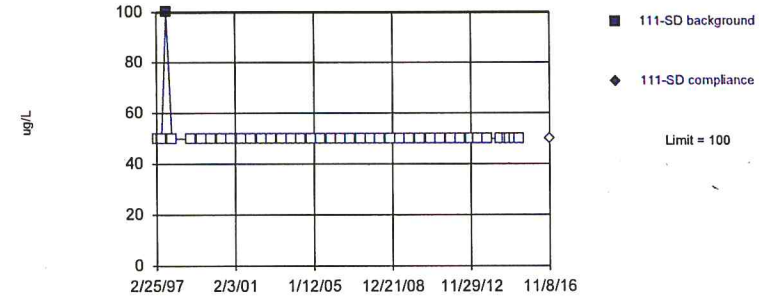
Constituent: Boron Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

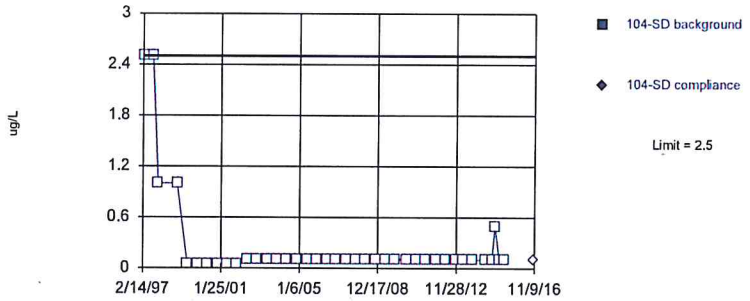
Constituent: Boron Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

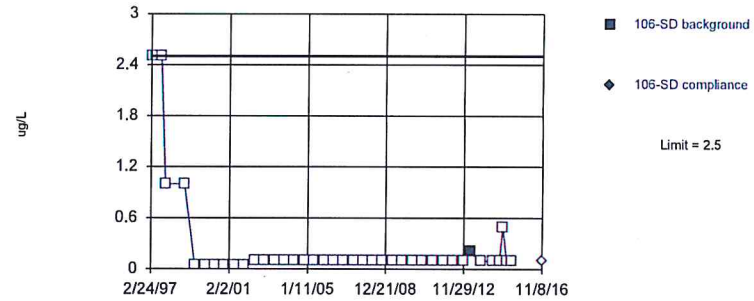
Constituent: Cadmium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

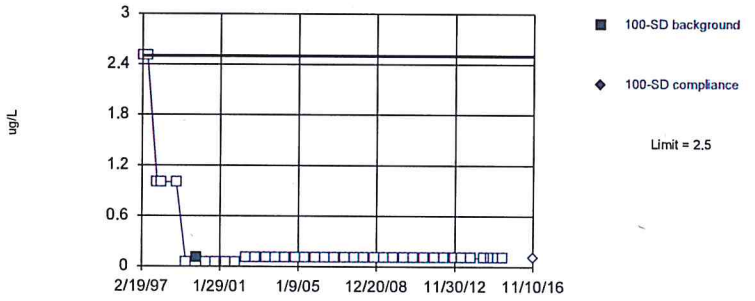
Constituent: Cadmium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

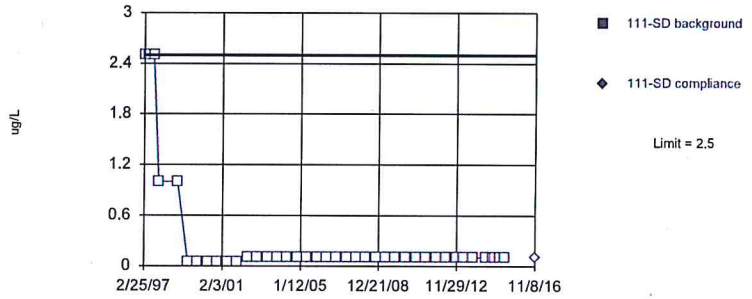
Constituent: Cadmium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

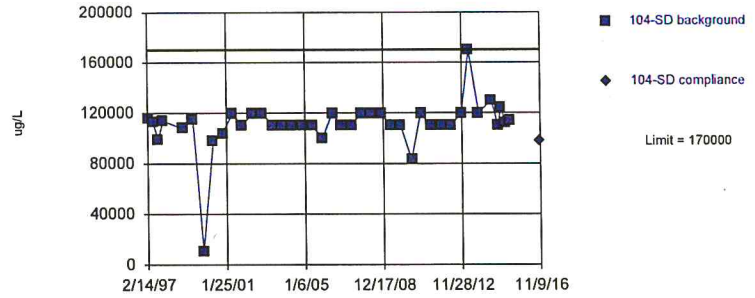
Constituent: Cadmium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Calcium Total Analysis Run 1/3/2017 8:48 AM

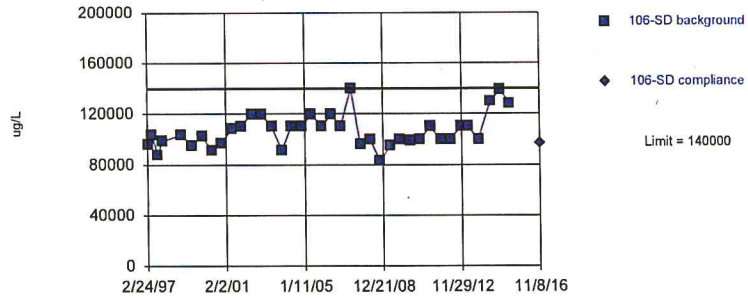
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.57, Std. Dev.=0.1181, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 200000 (9/24/2014); 176000 (2/4/2015).

Constituent: Calcium Total Analysis Run 1/3/2017 8:48 AM

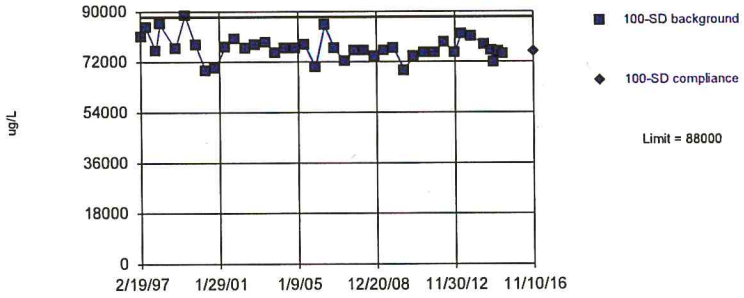
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.25, Std. Dev.=0.05606, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 1/3/2017 8:48 AM

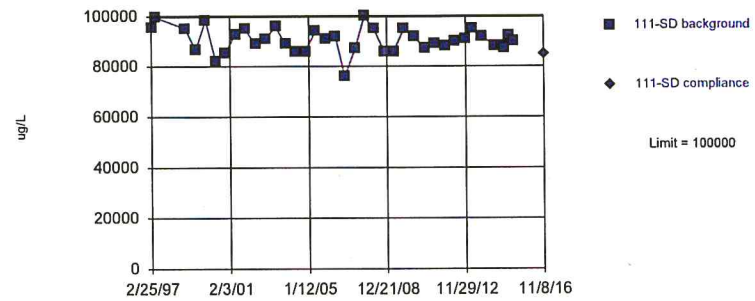
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=7.5e14, Std. Dev.=1.2e14, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 8590 (8/21/1997); 70400 (11/24/1997).

Constituent: Calcium Total Analysis Run 1/3/2017 8:48 AM

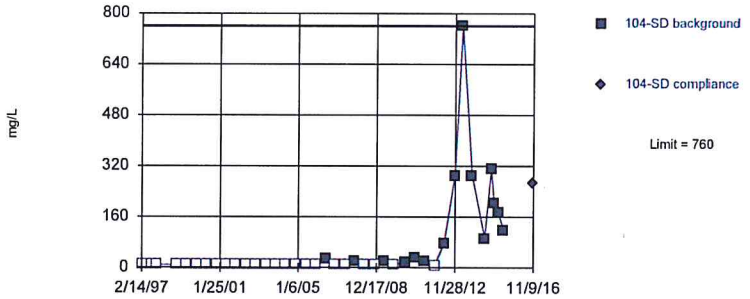
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

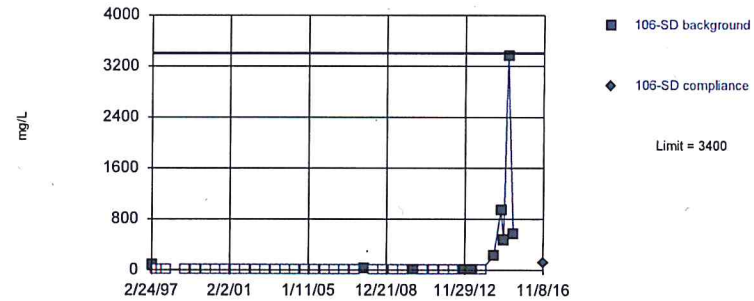
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

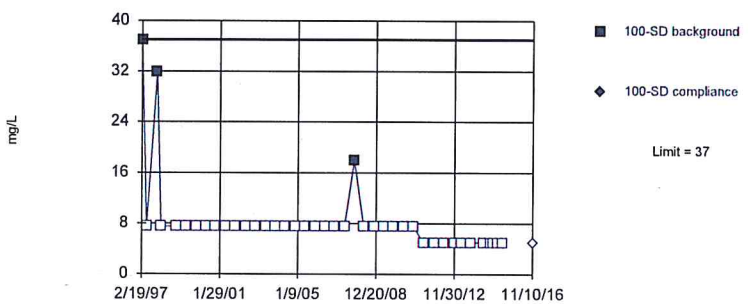
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

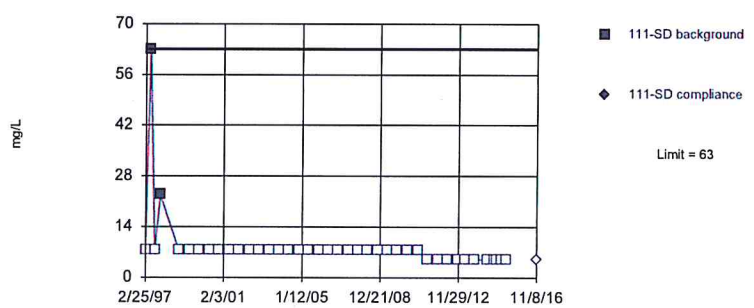
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

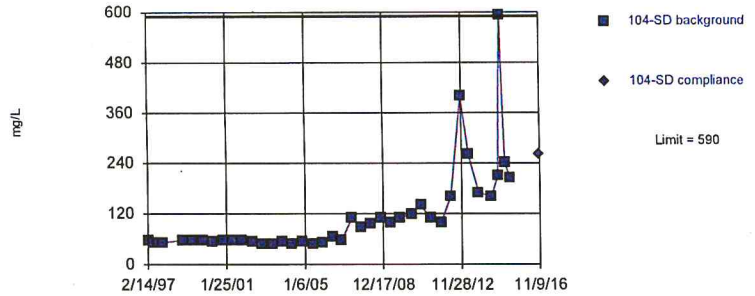
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 8:48 AM

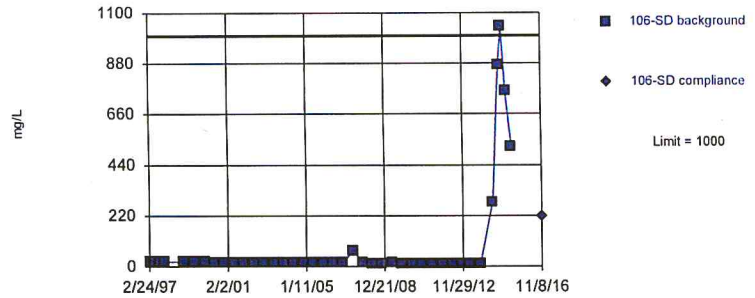
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Chloride Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

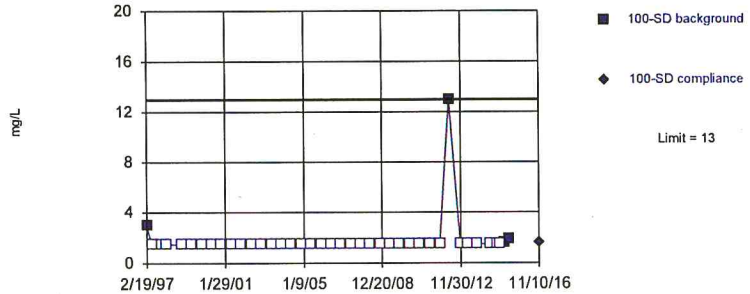
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3 2017 8:48 AM

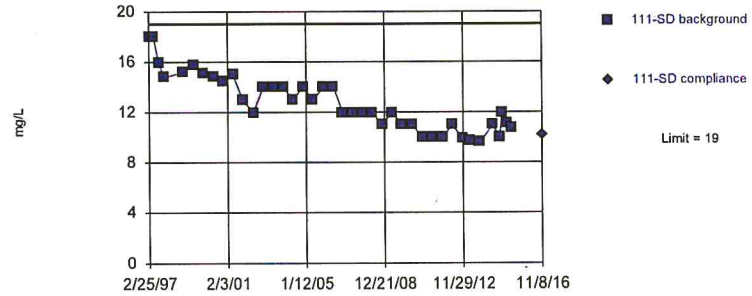
Bridgeton LF Client: RSI Data Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.531, Std. Dev.=0.173, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9432, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 1/3/2017 8:48 AM

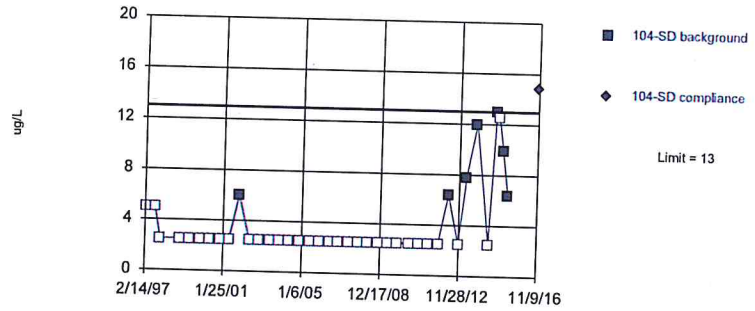
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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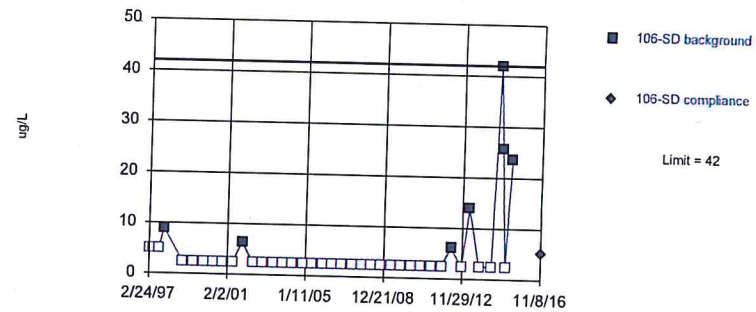
Hollow symbols indicate censored values.

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 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

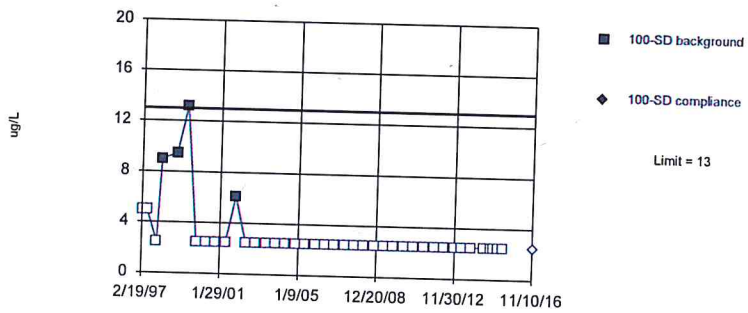
Constituent: Chromium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

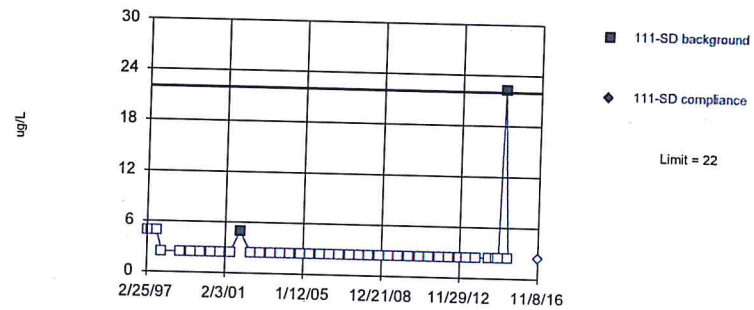
Constituent: Chromium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

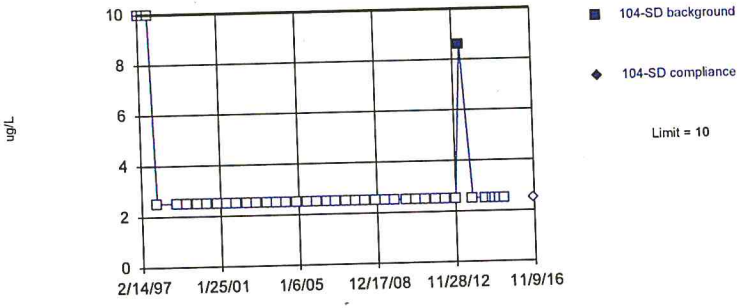
Constituent: Chromium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

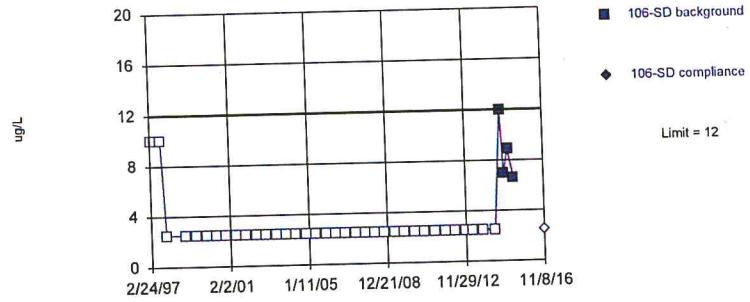
Constituent: Cobalt Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

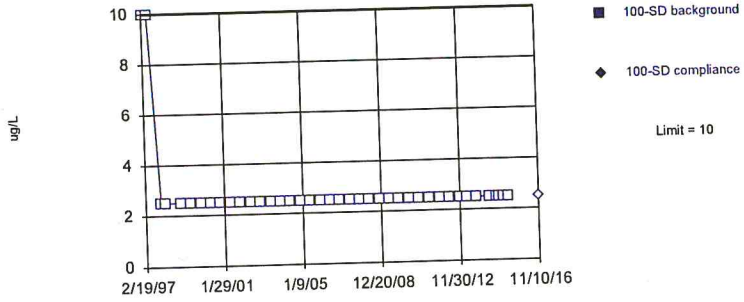
Constituent: Cobalt Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

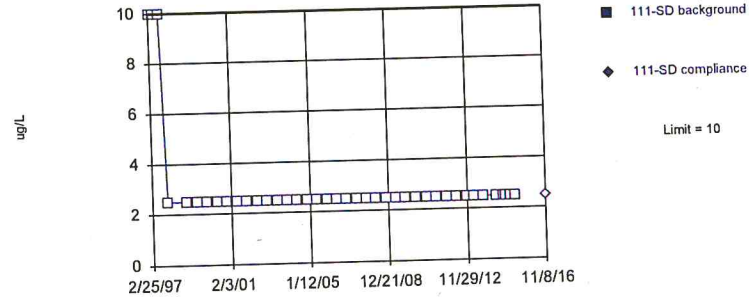
Constituent: Cobalt Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

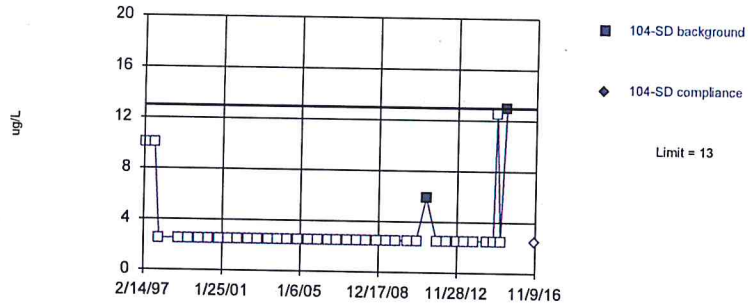
Constituent: Cobalt Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

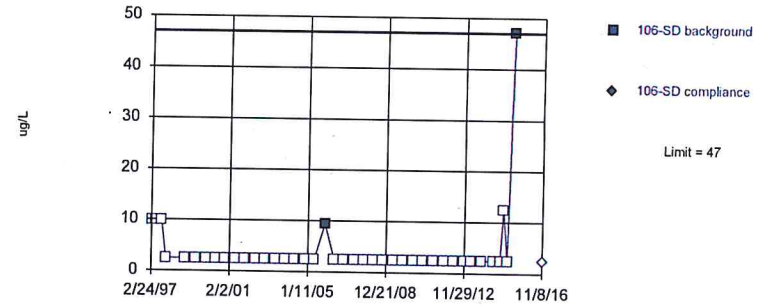
Constituent: Copper Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

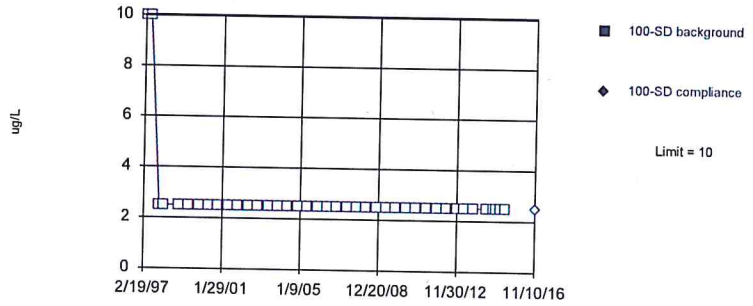
Constituent: Copper Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

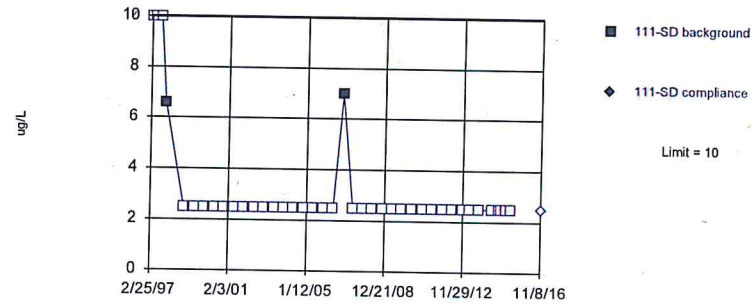
Constituent: Copper Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

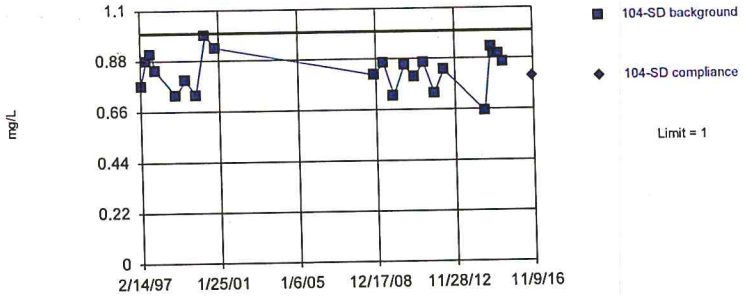
Constituent: Copper Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.6967, Std. Dev.=0.1384, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9836, critical = 0.878. Kappa = 2.66 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1.26 (5/15/2001); <0.1 (11/27/2012); 0.21 (4/11/2013); <0.1 (10/7/2013).

Constituent: Fluoride Analysis Run 1/3/2017 8:48 AM

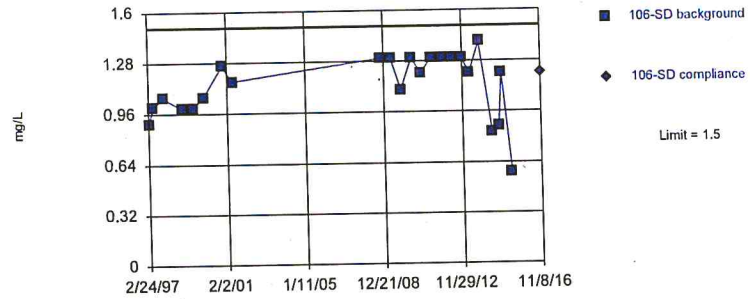
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.552, Std. Dev.=0.68, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.881. Kappa = 2.637 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: <0.25 (8/28/1997); 2.24 (5/23/2000); 0.18 (2/4/2015).

Constituent: Fluoride Analysis Run 1/3/2017 8:48 AM

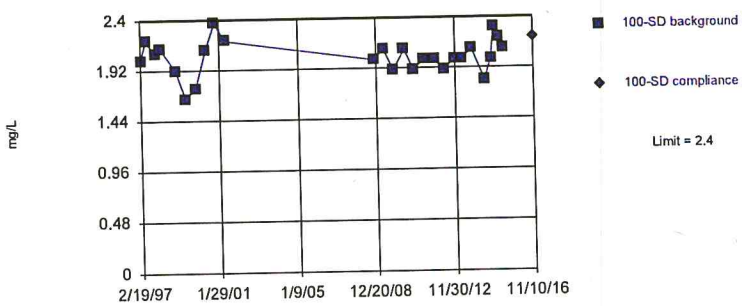
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.154, Std. Dev.=0.6542, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9765, critical = 0.891. Kappa = 2.575 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 1/3/2017 8:48 AM

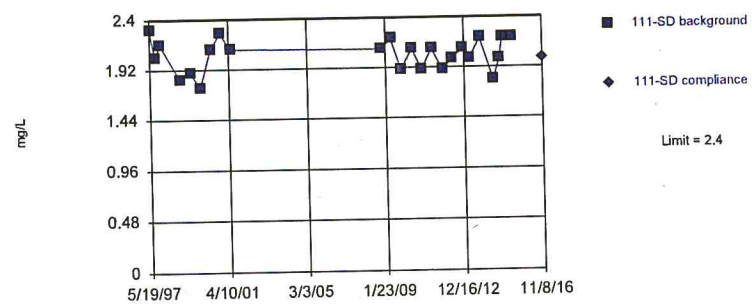
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=18.37, Std. Dev.=5.15, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.888. Kappa = 2.59 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.2 (2/25/1997).

Constituent: Fluoride Analysis Run 1/3/2017 8:48 AM

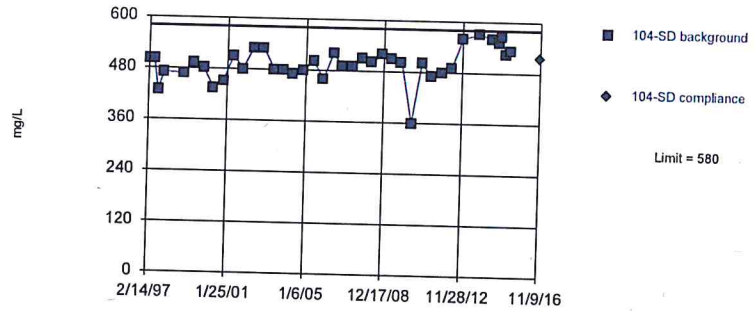
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.2e8, Std. Dev.=2.9e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 840 (4/11/2013).

Constituent: Hardness Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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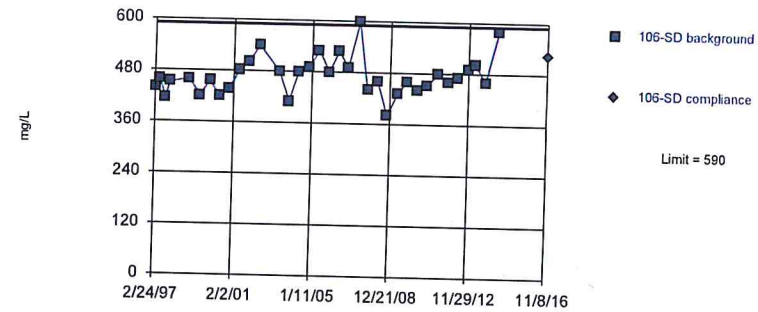
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, Std. Dev.=0.09469, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. Kappa = 2.466 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Five background outliers were removed: 180 (11/19/2002); 1300 (9/24/2014); 838 (11/20/2014); 1100 (2/4/2015); 817 (5/14/2015).

Constituent: Hardness Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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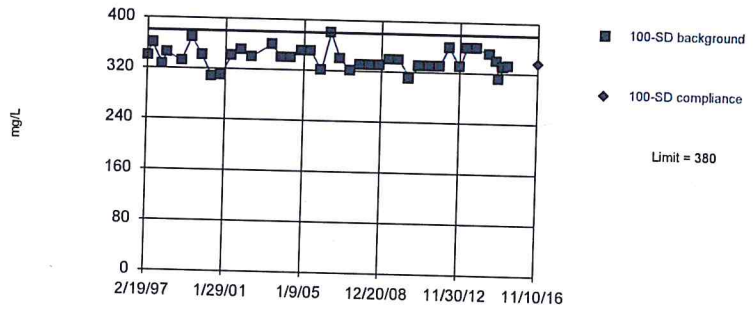
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.824, Std. Dev.=0.04847, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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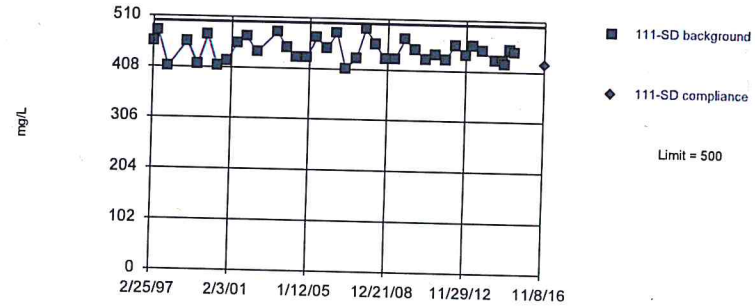
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.638, Std. Dev.=0.1242, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 37.1 (8/21/1997); 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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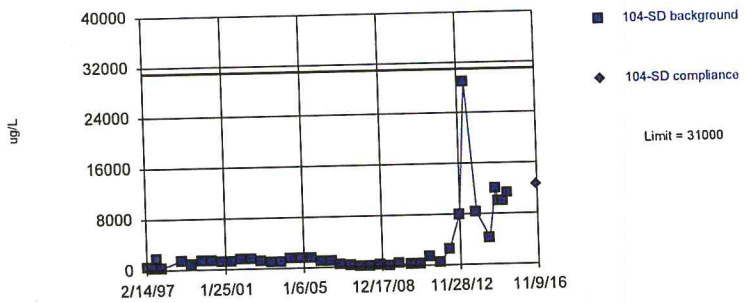
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.096, Std. Dev.=1.332, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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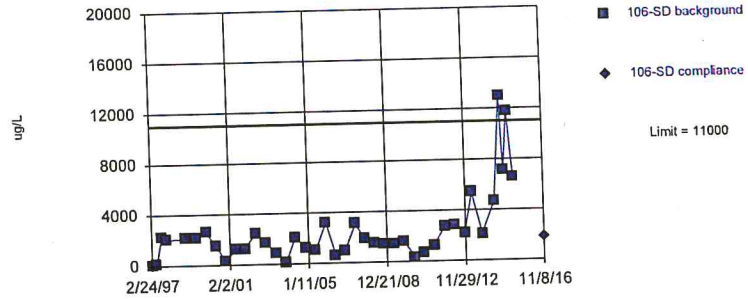
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=12.37, Std. Dev.=4.148, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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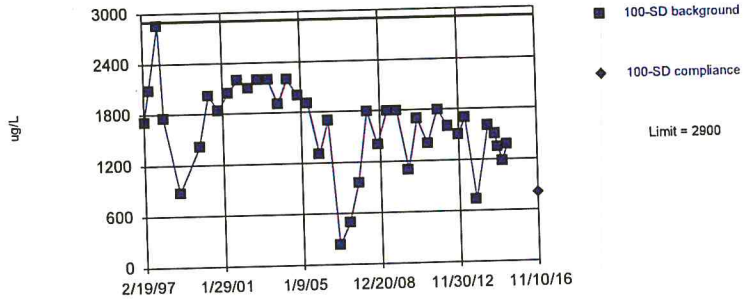
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1623, Std. Dev.=514.4, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9632, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 3550 (5/18/1999).

Constituent: Iron Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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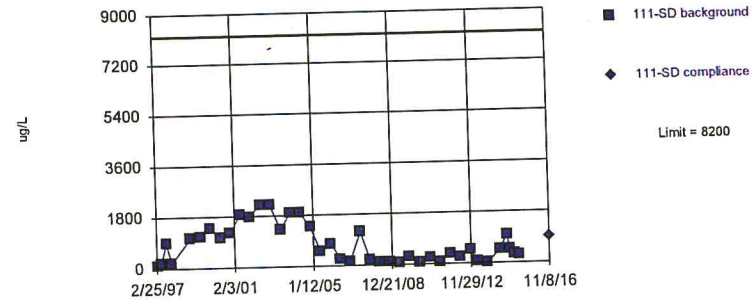
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.026, Std. Dev.=1.228, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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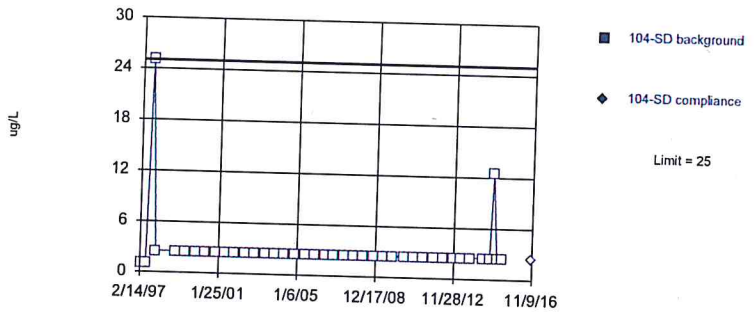
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

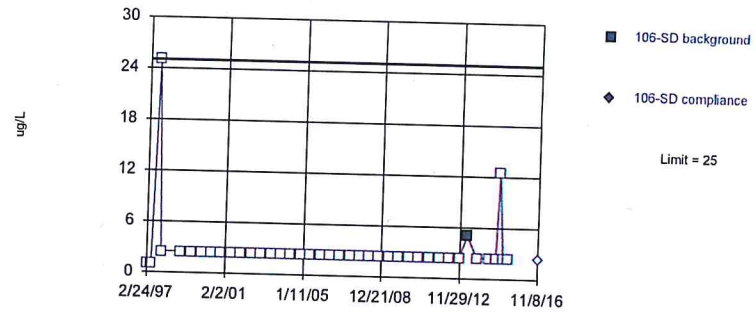
Constituent: Lead Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

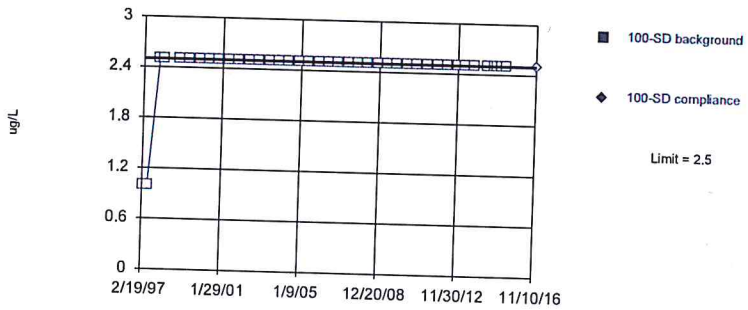
Constituent: Lead Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

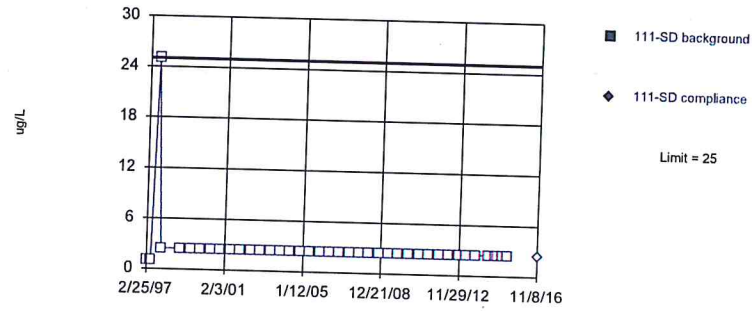
Constituent: Lead Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

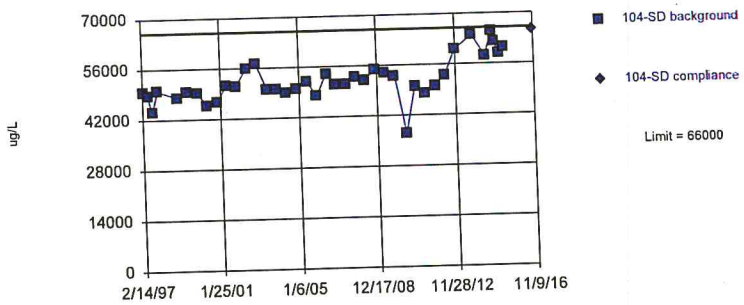
Constituent: Lead Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=228.1, Std. Dev.=12.08, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9487, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 100000 (4/11/2013).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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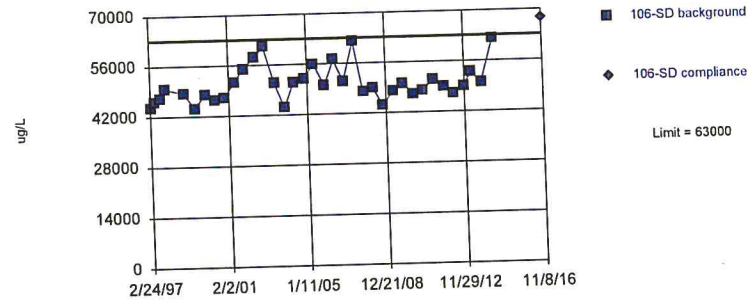
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.09234, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 190000 (9/24/2014); 119000 (11/20/2014); 160000 (2/4/2015); 120000 (5/14/2015).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:48 AM

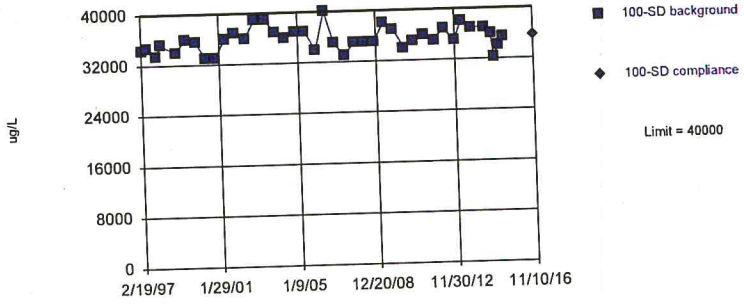
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.48, Std. Dev.=0.04911, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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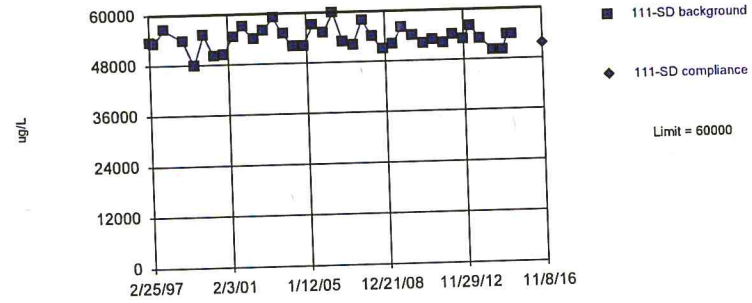
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.89, Std. Dev.=0.0489, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9842, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 3810 (8/21/1997).

Constituent: Magnesium Total Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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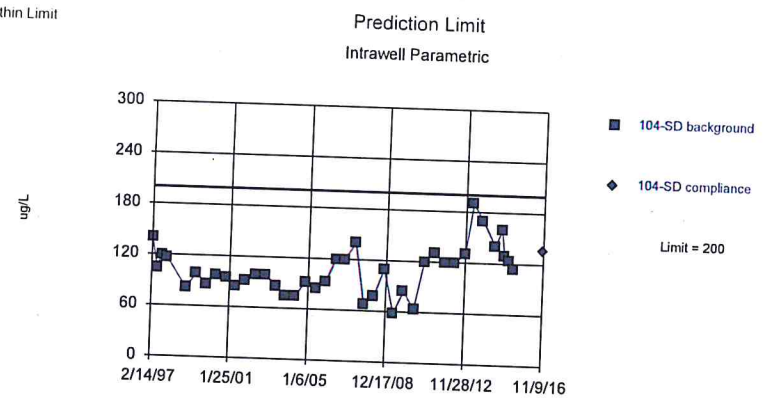
Within Limit



Background Data Summary (based on natural log transformation): Mean=4.643, Std. Dev.=0.2679, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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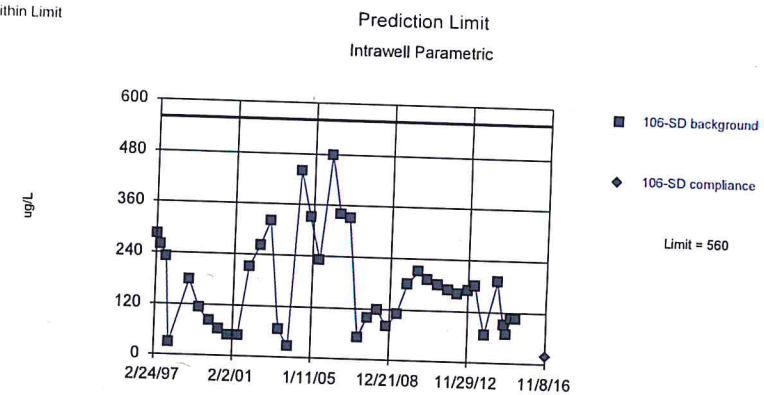
Within Limit



Background Data Summary (based on cube root transformation): Mean=5.302, Std. Dev.=1.222, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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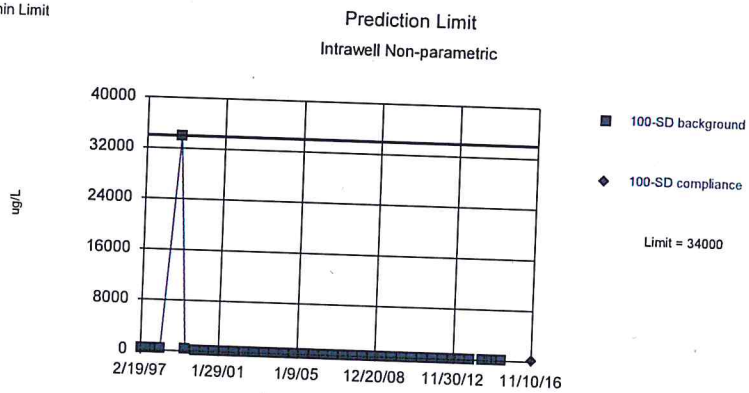
Within Limit

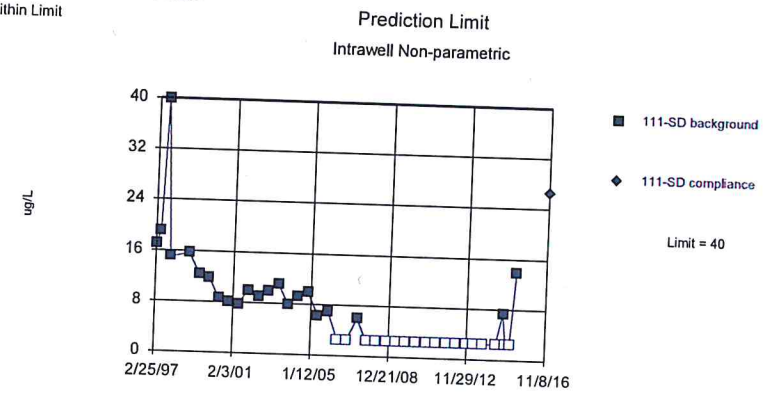


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit



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 40 background values. 45% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

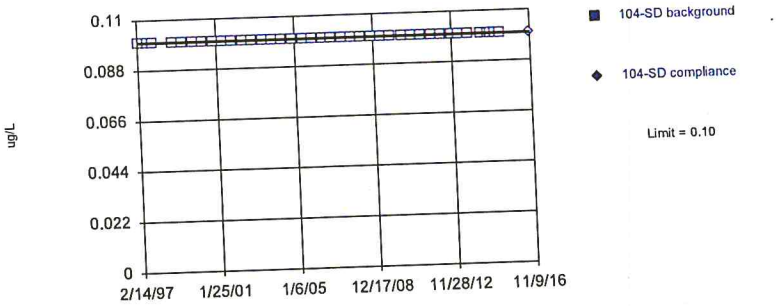
Constituent: Manganese Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

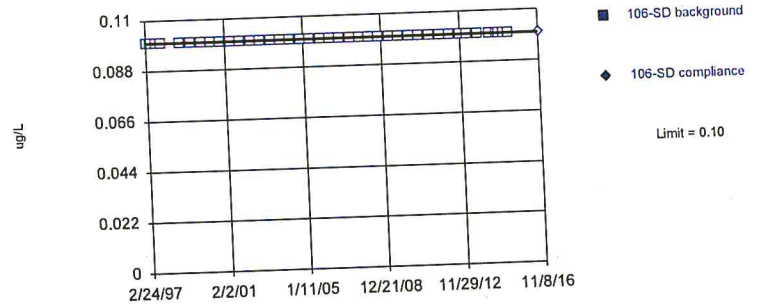
Constituent: Mercury Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

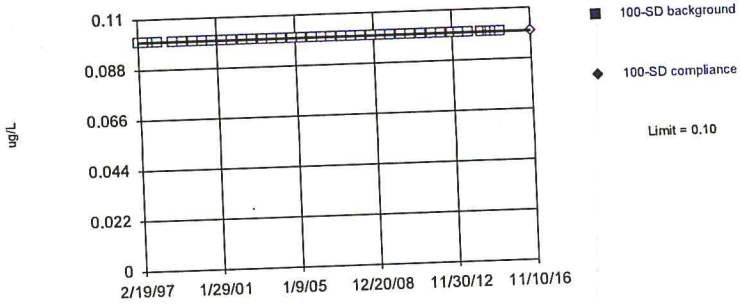
Constituent: Mercury Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

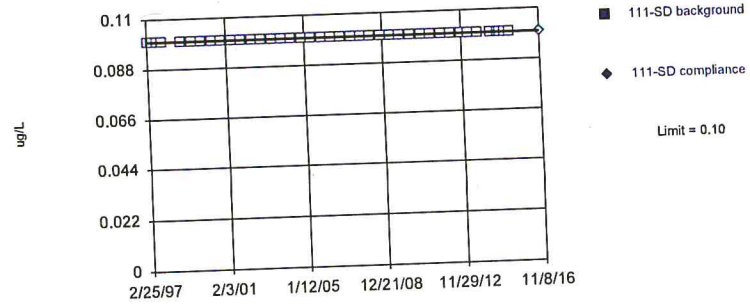
Constituent: Mercury Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

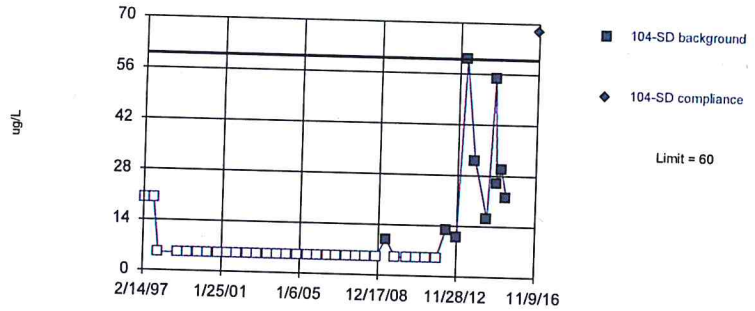
Constituent: Mercury Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

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 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

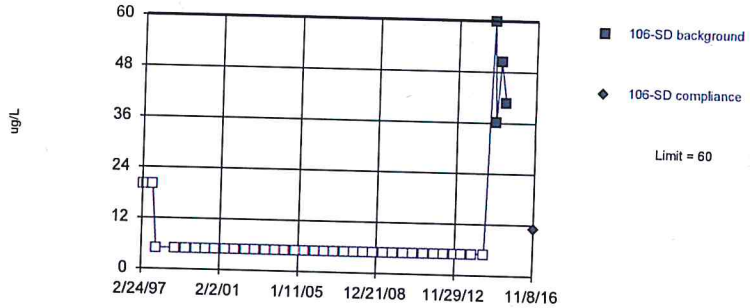
Constituent: Nickel Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

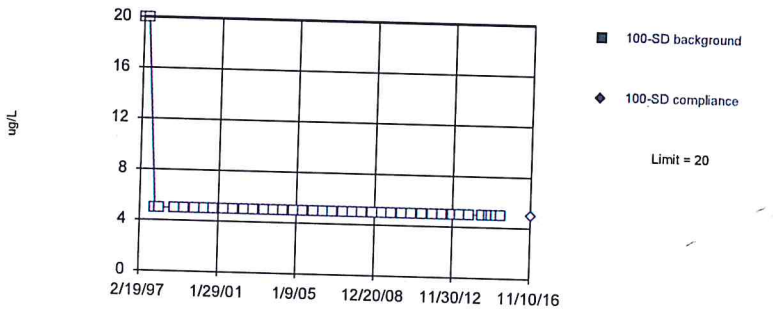
Constituent: Nickel Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

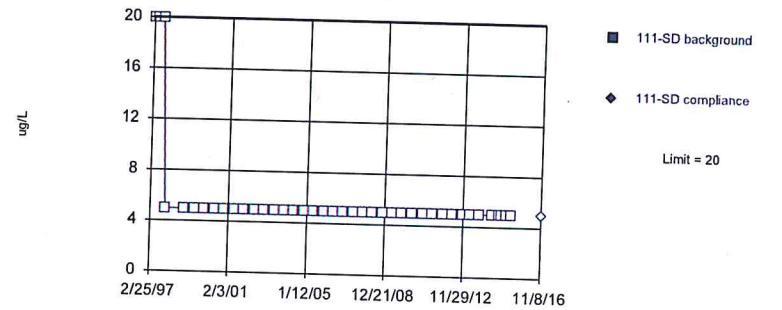
Constituent: Nickel Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

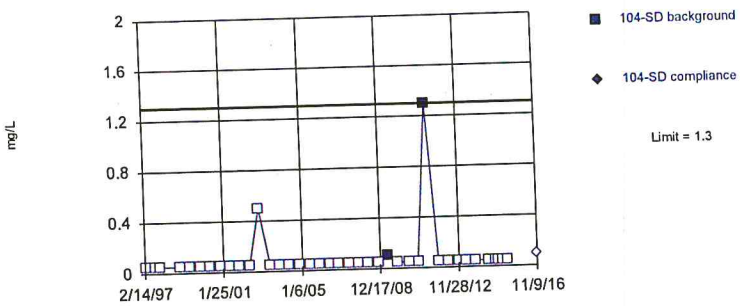
Constituent: Nickel Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

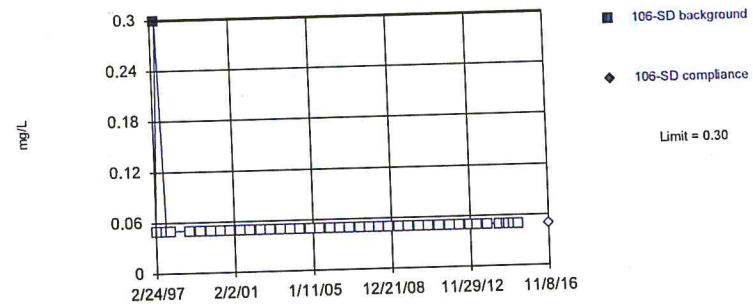
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

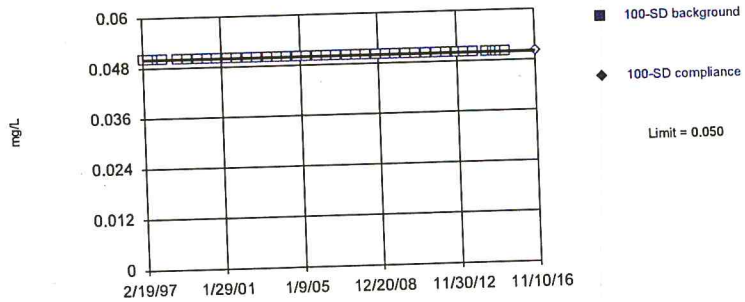
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

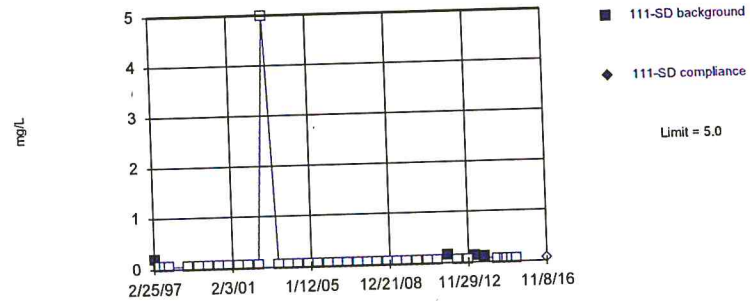
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

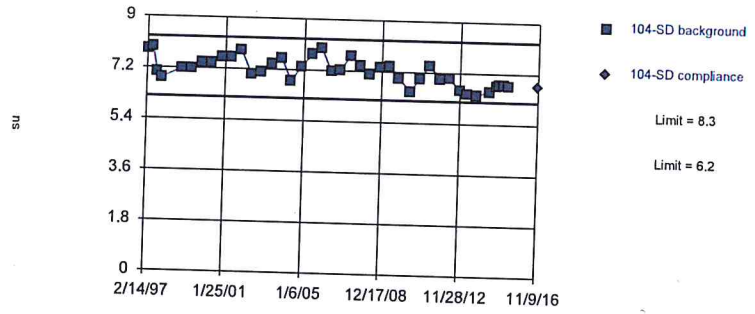
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.97, Std. Dev.=0.05879, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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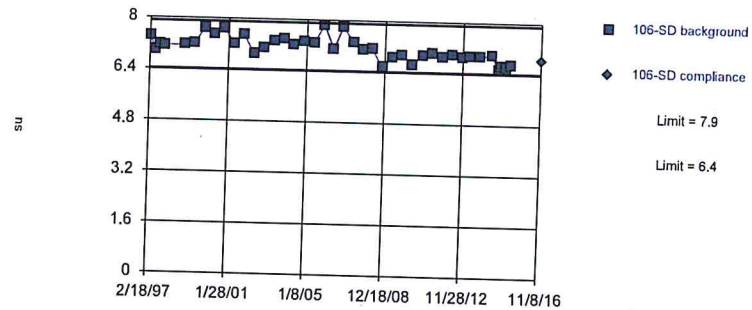
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.961, Std. Dev.=0.04615, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9633, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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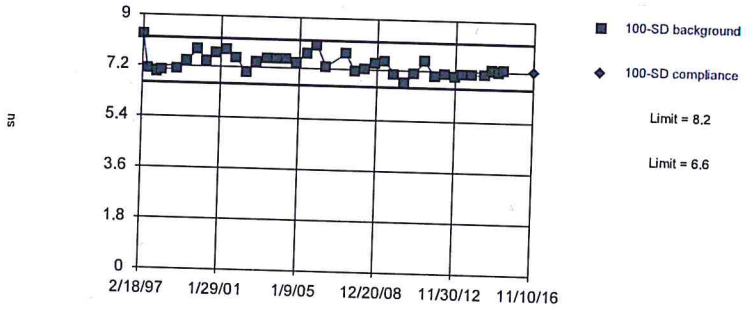
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.993, Std. Dev.=0.04354, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.942, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 8.5 (11/8/2006).

Constituent: pH [Field] Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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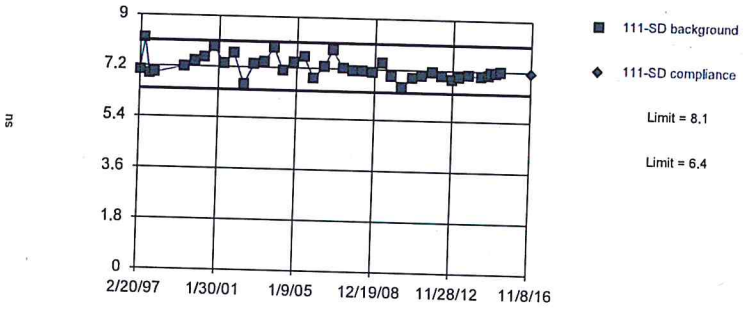
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.976, Std. Dev.=0.04679, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 5.2 (11/12/1998).

Constituent: pH [Field] Analysis Run 1/3/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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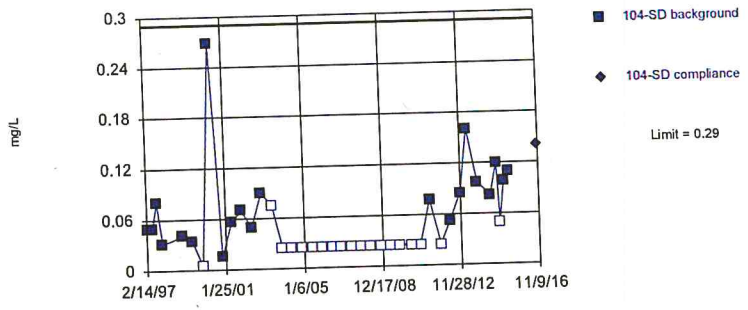
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-3.189, Std. Dev.=0.7998, n=40, 47.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9209, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. After outlier removal distribution was non-normal, so outlier results were invalidated.

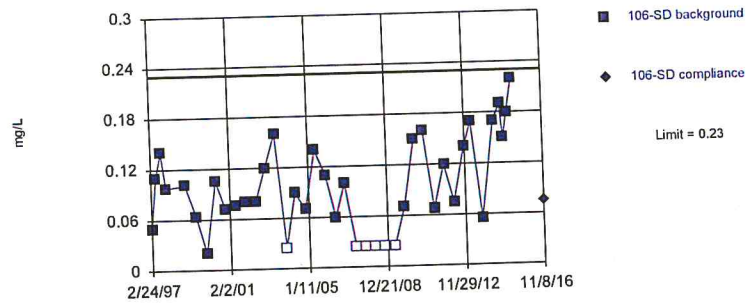
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09779, Std. Dev.=0.05309, n=40, 15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

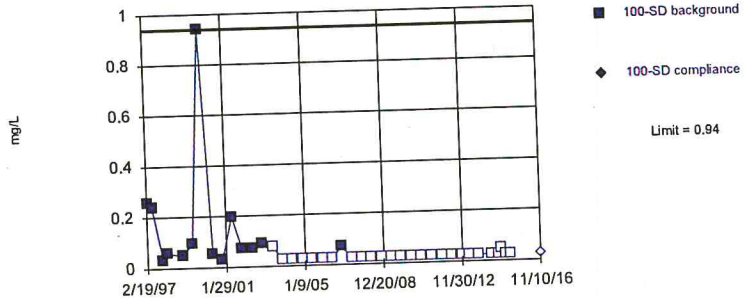
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

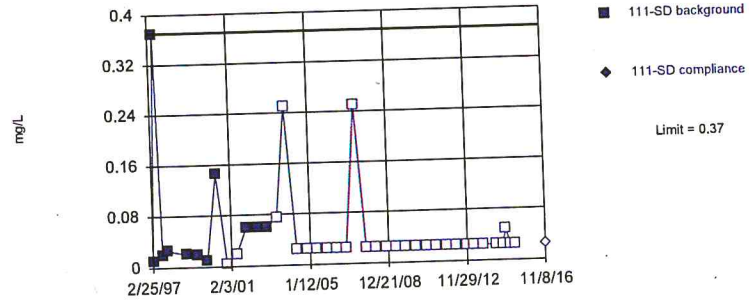
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

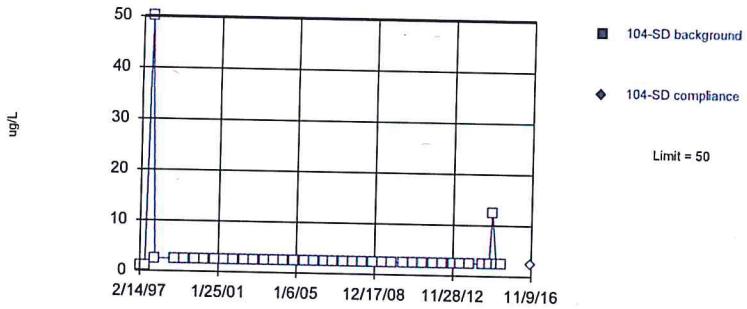
Constituent: Phosphorus Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

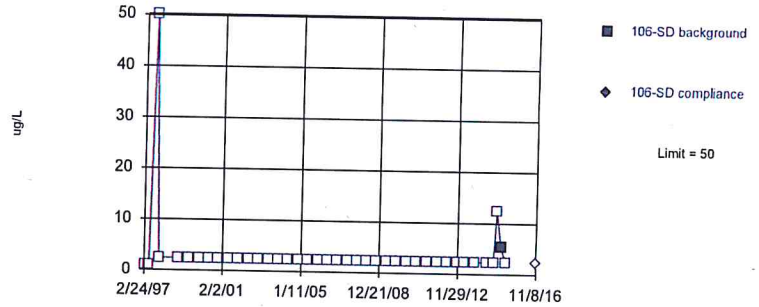
Constituent: Selenium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

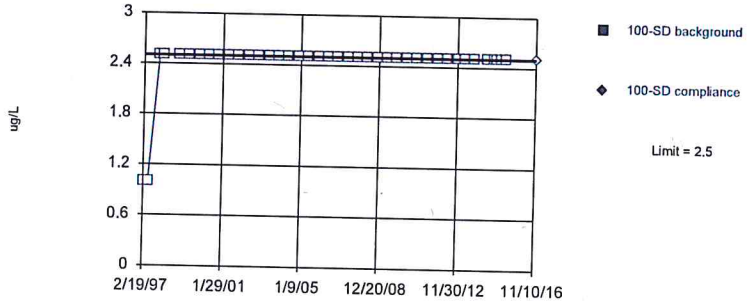
Constituent: Selenium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

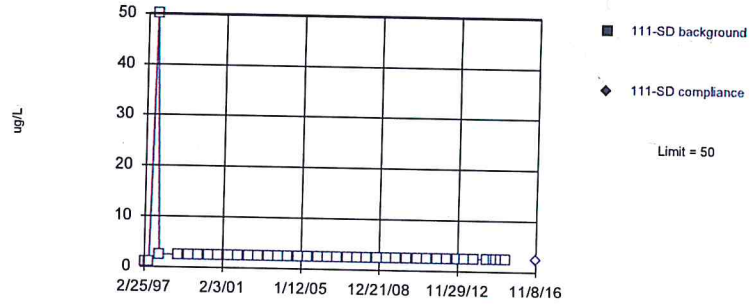
Constituent: Selenium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

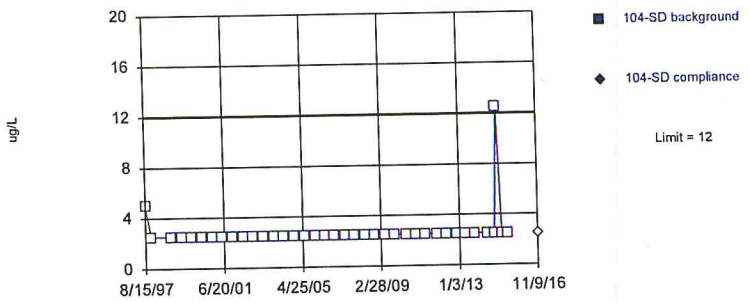
Constituent: Selenium Total Analysis Run 1/3/2017 8:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 38 background values. 100% NDs. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

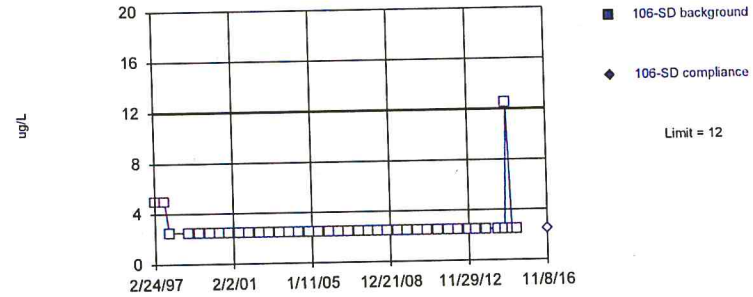
Constituent: Silver Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 39 background values. 100% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

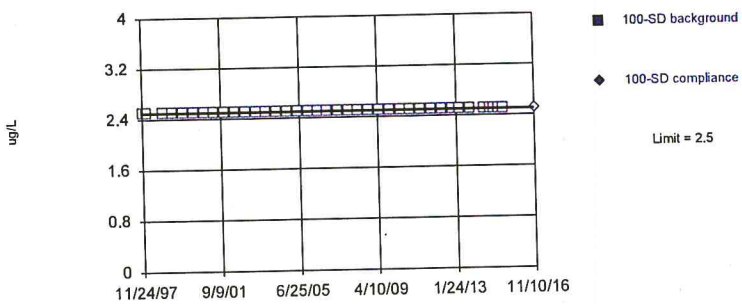
Constituent: Silver Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 38 background values. 100% NDs. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

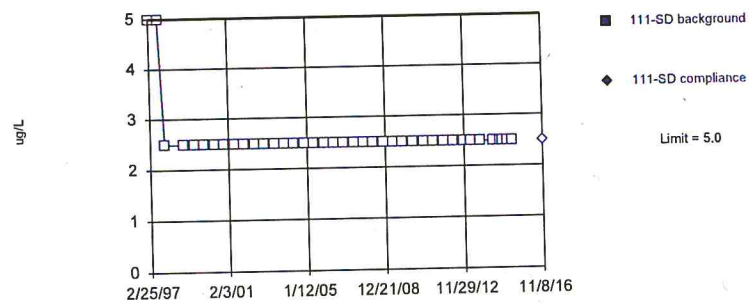
Constituent: Silver Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 39 background values. 100% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

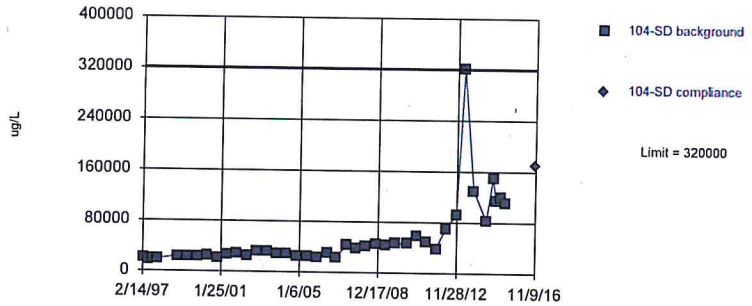
Constituent: Silver Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 1/3/2017 8:49 AM

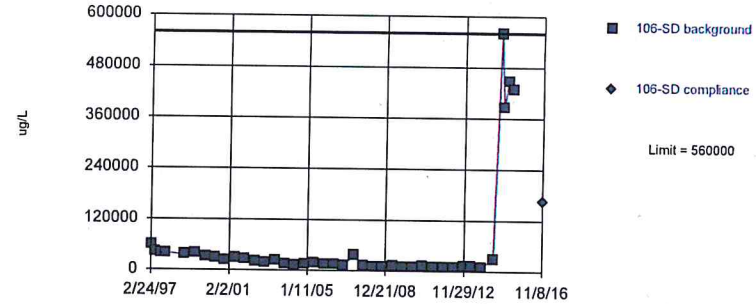
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 1/3/2017 8:49 AM

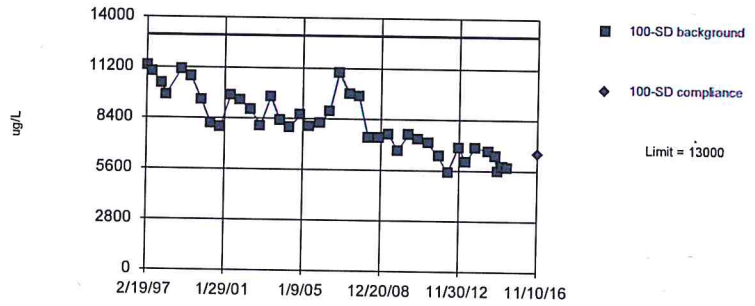
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=20.08, Std. Dev.=1.372, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 8:49 AM

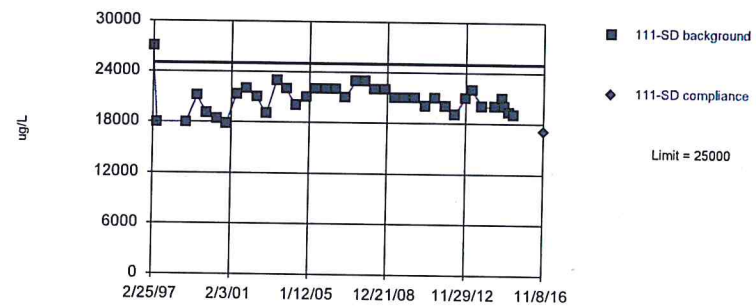
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.94, Std. Dev.=0.08286, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 218000 (8/21/1997); 73500 (11/24/1997).

Constituent: Sodium Total Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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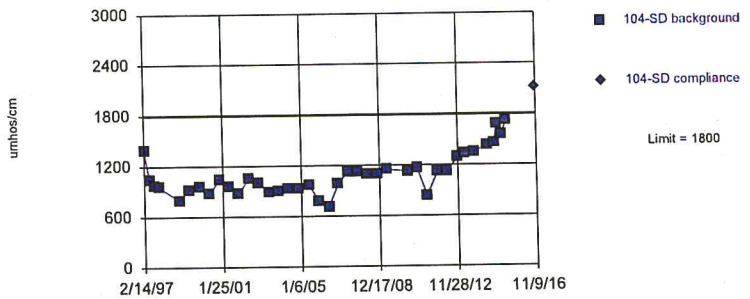
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.975, Std. Dev.=0.2109, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.963, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 130.2 (11/4/2009).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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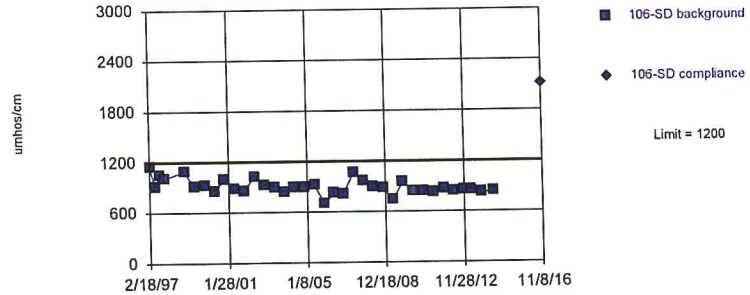
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.803, Std. Dev.=0.1014, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9655, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 4250 (9/24/2014); 3260 (11/20/2014); 3750 (2/4/2015); 3640 (5/14/2015).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:49 AM

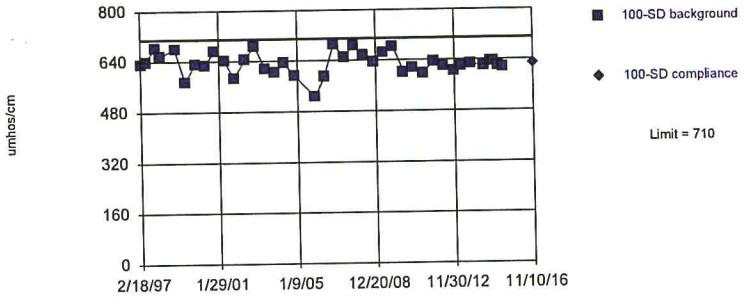
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=2.5e8, Std. Dev.=4.1e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9646, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 325 (5/24/2005).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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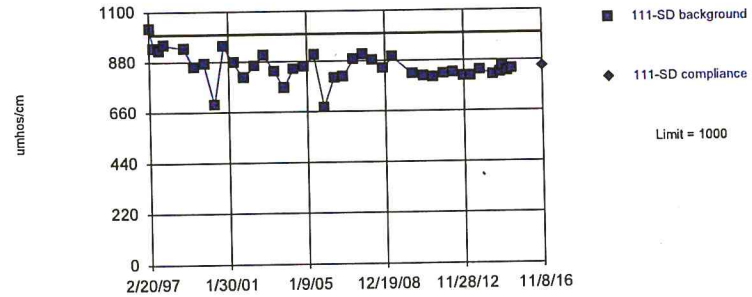
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=731124, Std. Dev.=112677, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 157.9 (11/3/2009).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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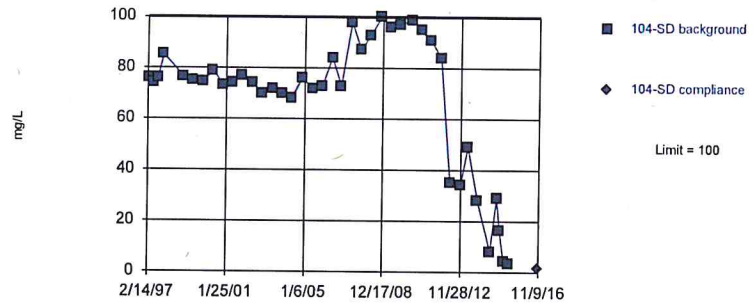
Within Limit

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sulfate Analysis Run 1/3/2017 8:49 AM

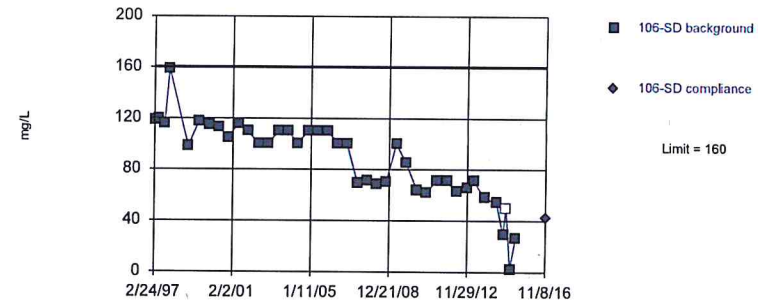
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=87.24, Std. Dev.=31.12, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

Constituent: Sulfate Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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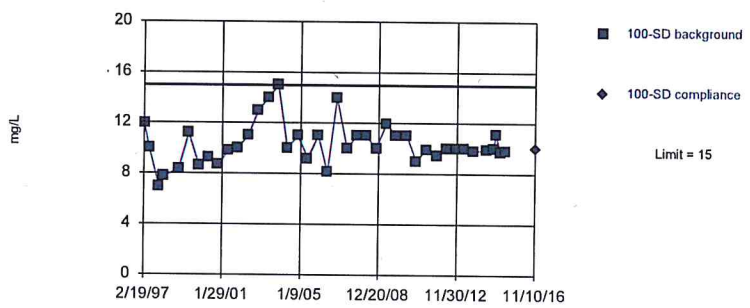
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.323, Std. Dev.=0.1561, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9566, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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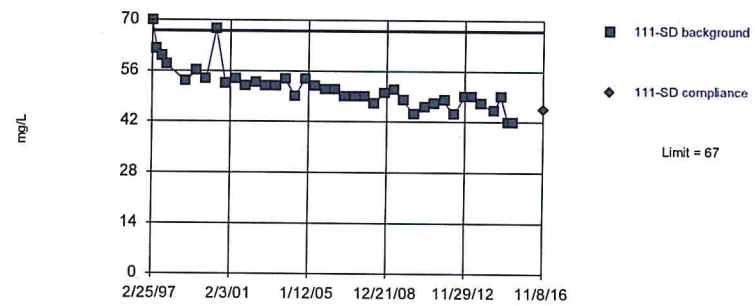
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.932, Std. Dev.=0.1116, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: <50 (11/19/2014).

Constituent: Sulfate Analysis Run 1/3/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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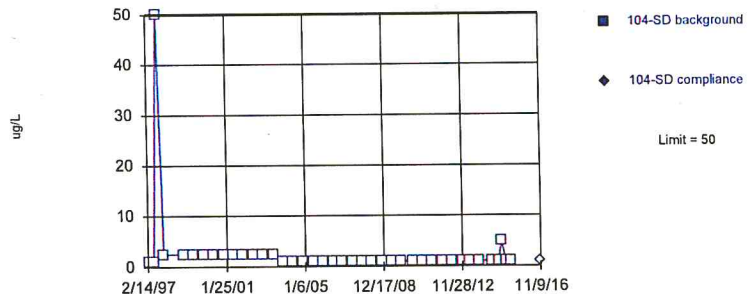
Hollow symbols indicate censored values.

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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

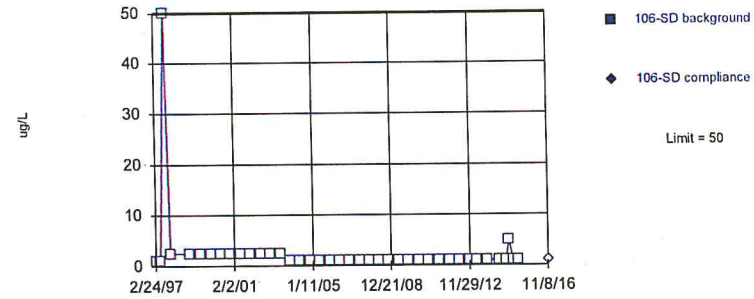
Constituent: Thallium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

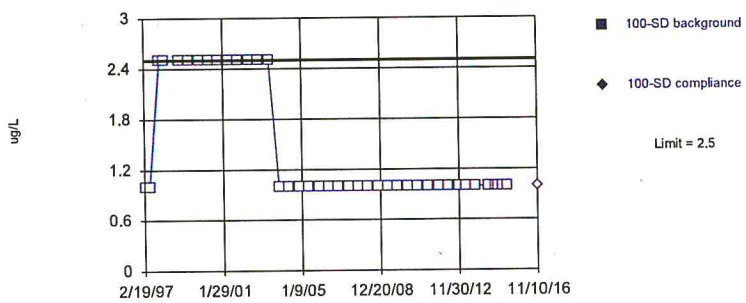
Constituent: Thallium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

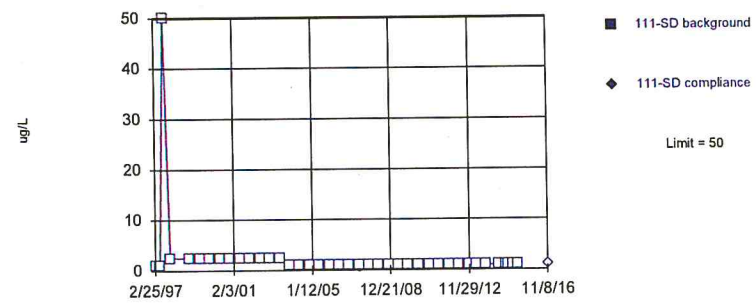
Constituent: Thallium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

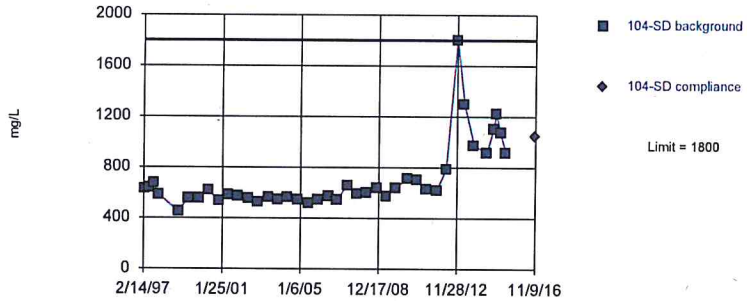
Constituent: Thallium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:49 AM

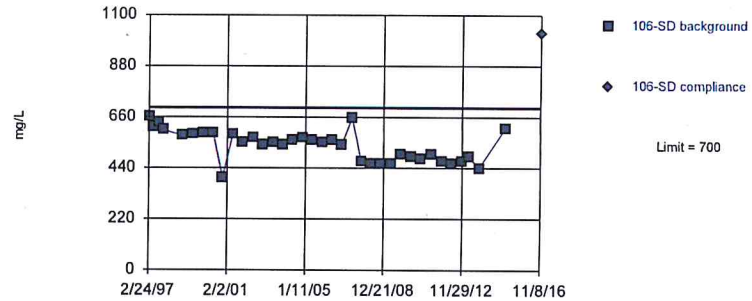
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=538.1, Std. Dev.=65.86, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9645, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1600 (5/28/2014); 3200 (9/24/2014); 2090 (11/20/2014); 2150 (5/14/2015).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:49 AM

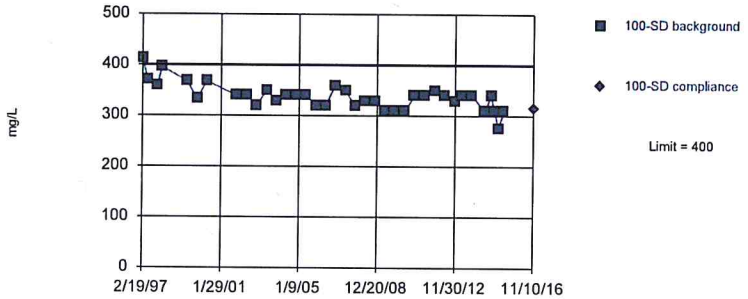
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.819, Std. Dev.=0.07451, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: 116 (11/14/1998); 512 (11/13/2000); 551 (5/15/2001).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:49 AM

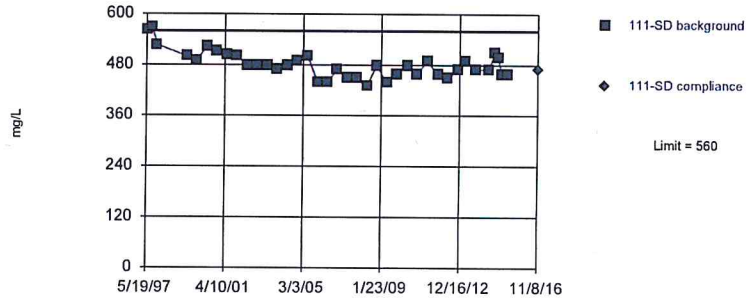
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.175, Std. Dev.=0.06301, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 340 (2/25/1997); 634 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 8:49 AM

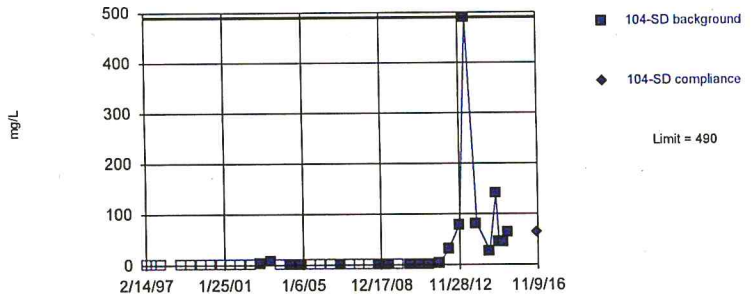
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

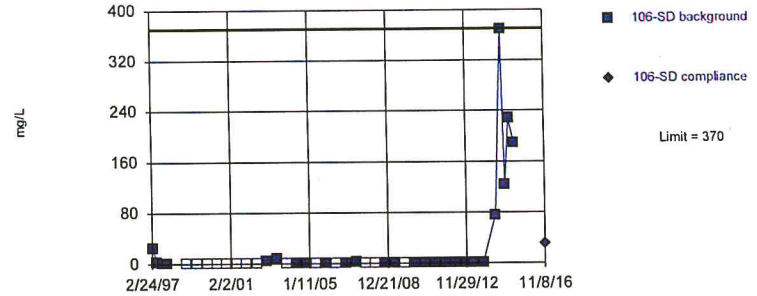
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 35% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

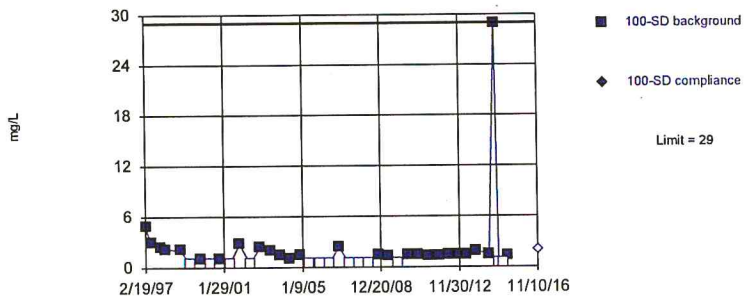
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

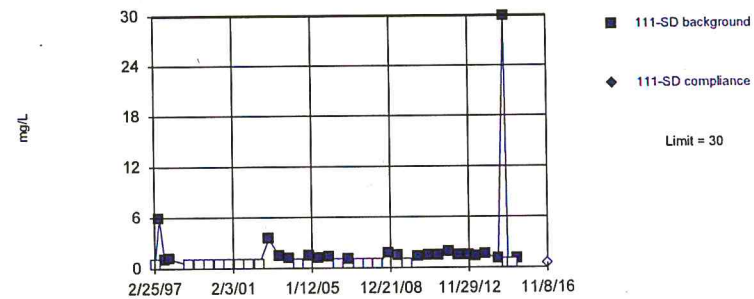
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
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 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

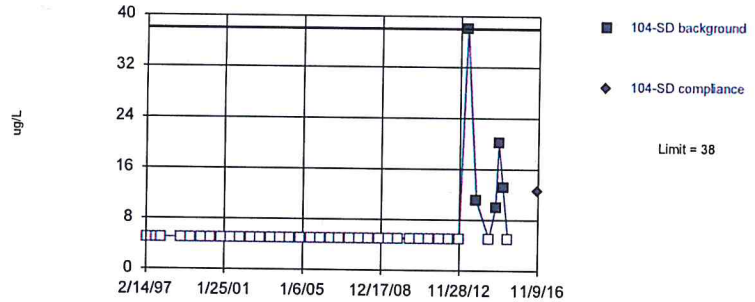
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

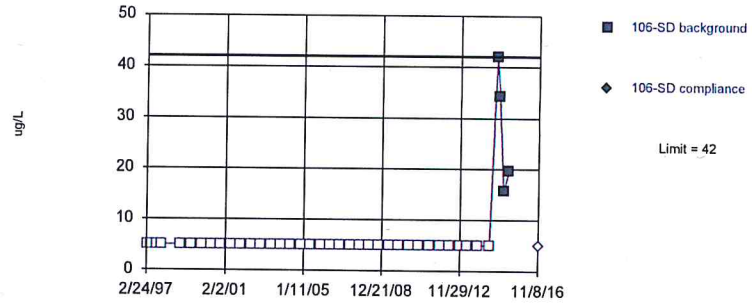
Constituent: Vanadium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

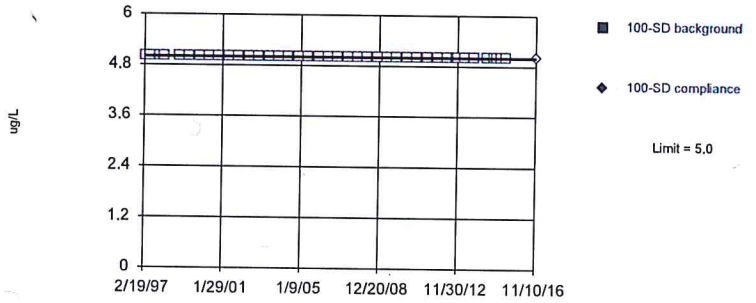
Constituent: Vanadium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, 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 40 background values. 100% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

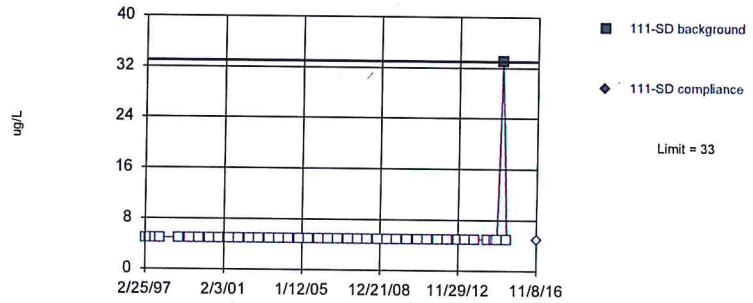
Constituent: Vanadium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



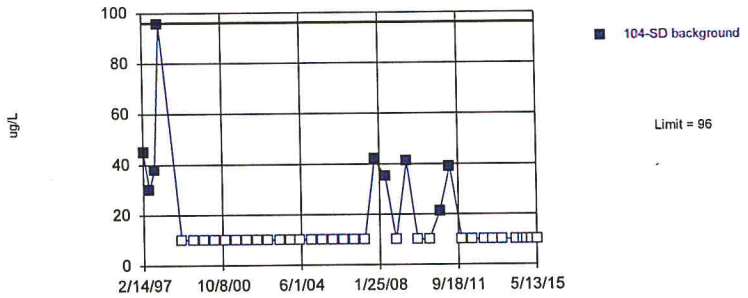
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 104-SD



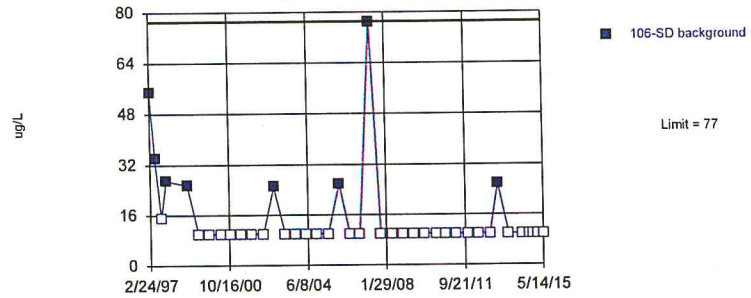
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 77.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 106-SD



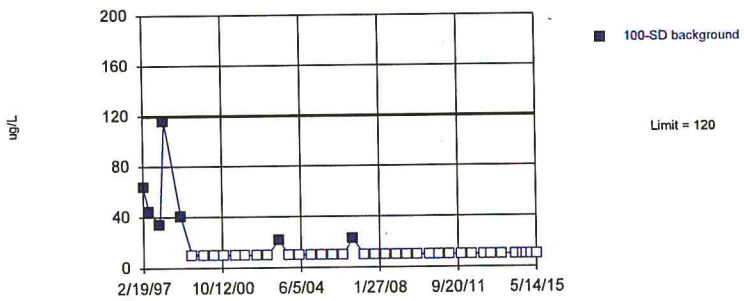
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 100-SD



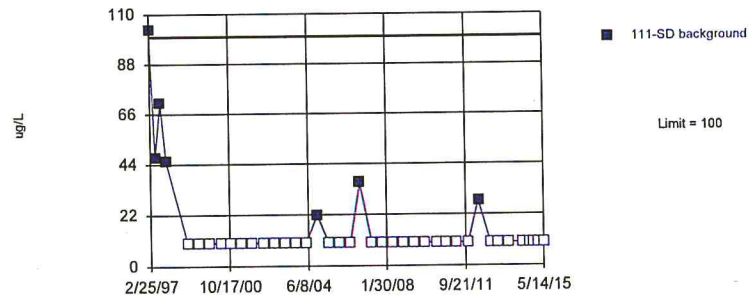
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Zinc Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Non-parametric, 111-SD



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Assumes 1 future value. After outlier removal distribution was non-normal, so outlier results were invalidated.

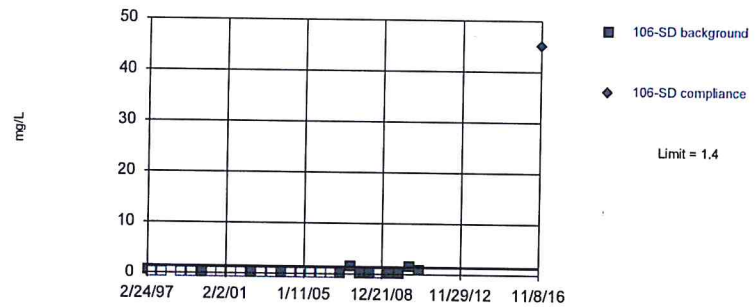
Constituent: Zinc Total Analysis Run 1/3/2017 8:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

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 29 background values. 55.17% NDs. Well-constituent pair annual alpha = 0.00858. Individual comparison alpha = 0.002152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

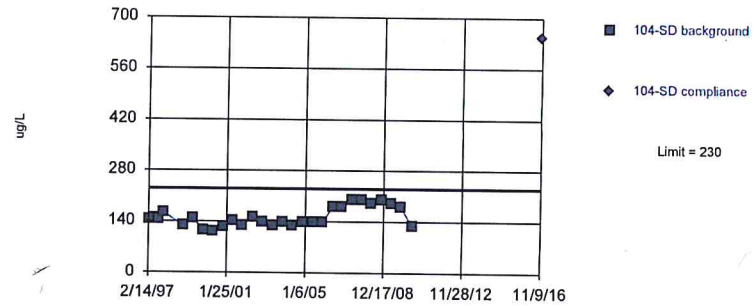
Constituent: Ammonia as N Analysis Run 1/3/2017 8:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.011, Std. Dev.=0.17, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.896. Kappa = 2.544 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 8:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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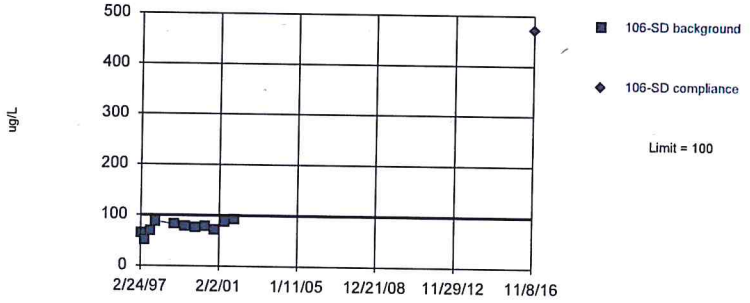
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=465937, Std. Dev.=199834, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9753, critical = 0.85. Kappa = 3.335 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Dixon's outlier test was performed on the background data. No background outliers were found.

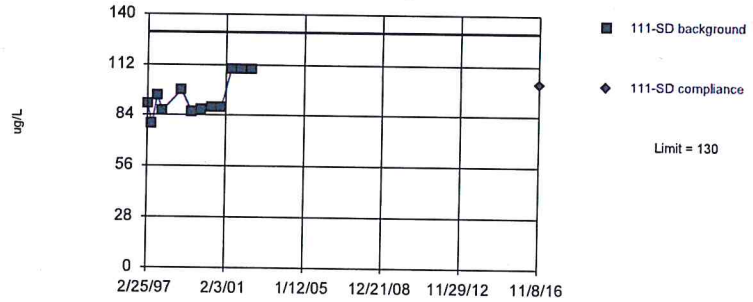
Constituent: Barium Total Analysis Run 1/3/2017 8:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.538, Std. Dev.=0.1113, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8796, critical = 0.859. Kappa = 3.187 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 1/3/2017 9:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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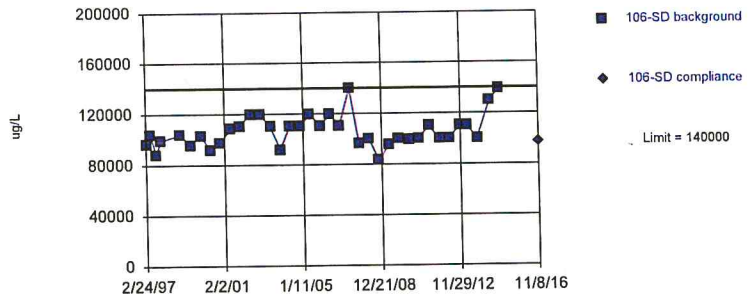
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.57, Std. Dev.=0.1154, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9502, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 200000 (9/24/2014).

Constituent: Calcium Total Analysis Run 1/3/2017 9:00 AM

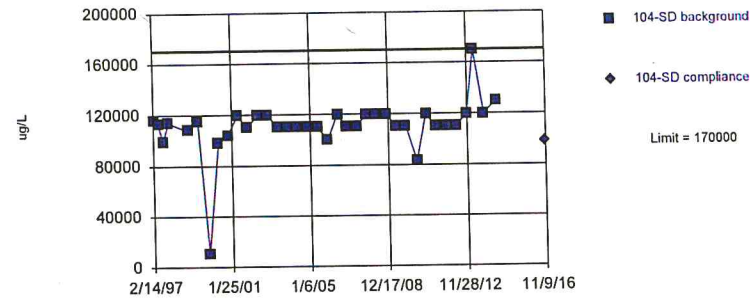
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

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 36 background values. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 1/3/2017 9:01 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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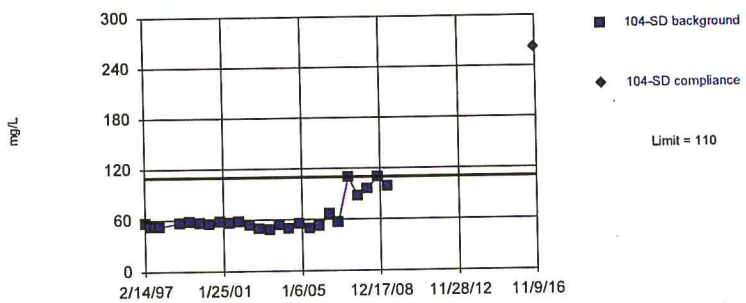
Exceeds Limit

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 0.01 alpha level. Limit is highest of 26 background values. Well-constituent pair annual alpha = 0.01051. Individual comparison alpha = 0.002637 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 1/3/2017 9:01 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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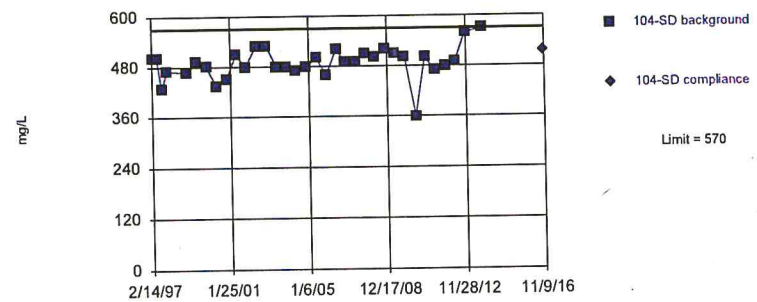
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.2e8, Std. Dev.=2.6e7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.908. Kappa = 2.475 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 840 (4/11/2013).

Constituent: Hardness Total Analysis Run 1/3/2017 9:01 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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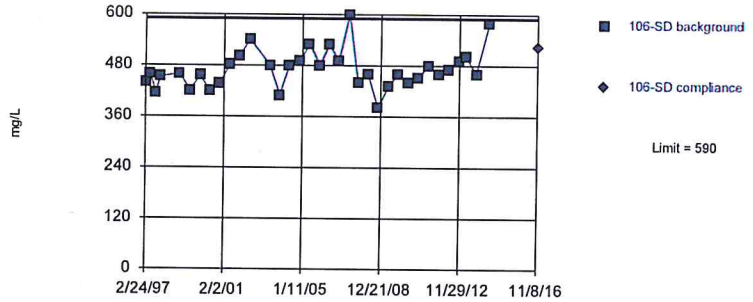
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, Std. Dev.=0.09469, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. Kappa = 2.466 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 180 (11/19/2002); 1300 (9/24/2014).

Constituent: Hardness Total Analysis Run 1/3/2017 9:02 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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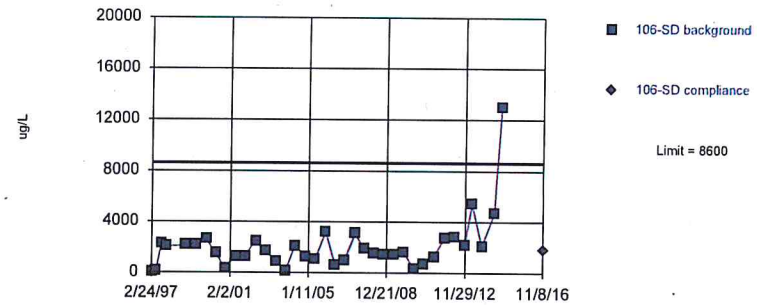
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=11.73, Std. Dev.=3.576, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Iron Total Analysis Run 1/3/2017 9:02 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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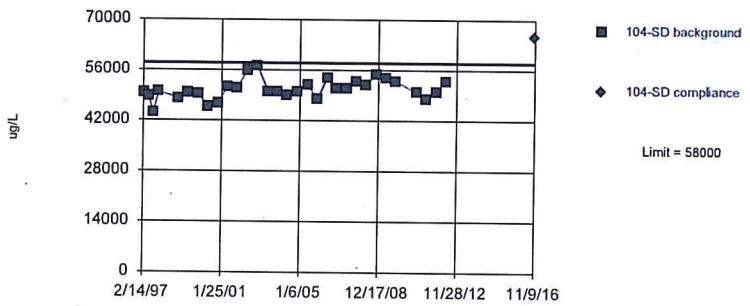
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=36.99, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9809, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 37000 (5/20/2010).

Constituent: Magnesium Total Analysis Run 1/3/2017 9:02 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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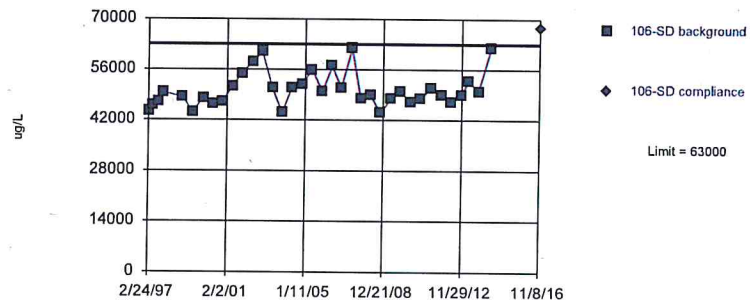
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.09234, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 190000 (9/24/2014); 119000 (11/20/2014).

Constituent: Magnesium Total Analysis Run 1/3/2017 9:03 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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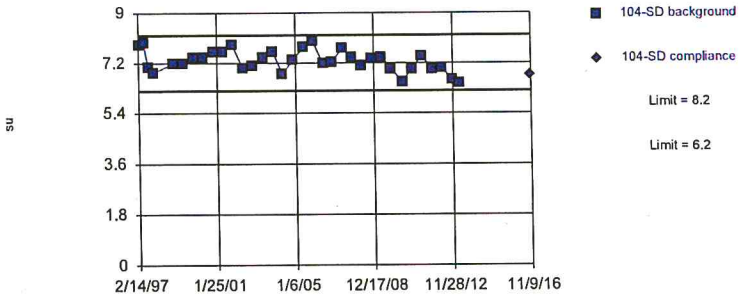
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=53, Std. Dev.=5.7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.908. Kappa = 2.475 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 9:03 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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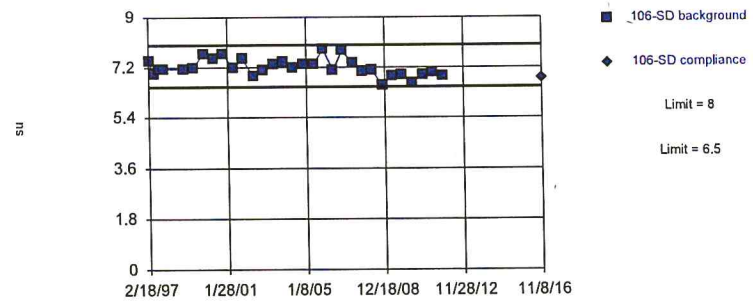
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04295, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 1/3/2017 9:04 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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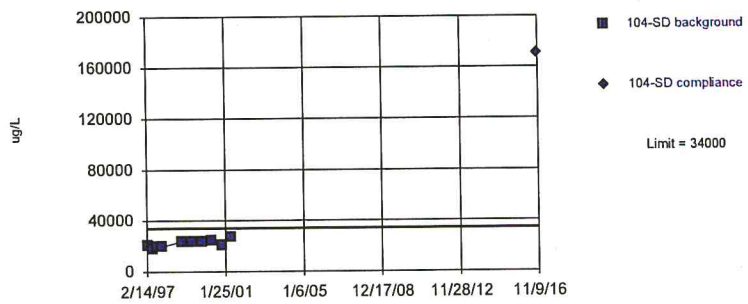
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10, Std. Dev.=0.1276, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9451, critical = 0.842. Kappa = 3.482 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 1/3/2017 9:05 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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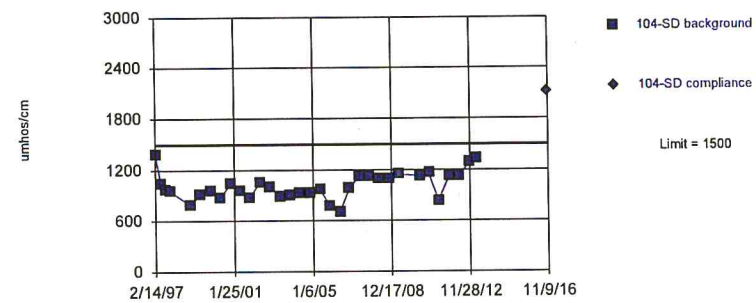
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.911, Std. Dev.=0.1526, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9837, critical = 0.906. Kappa = 2.485 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 130.2 (11/4/2009).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 9:06 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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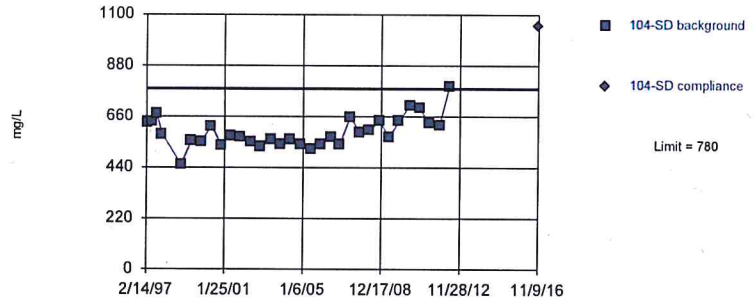
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.38, Std. Dev.=0.11, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9651, critical = 0.904. Kappa = 2.494 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 1800 (11/27/2012).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 9:06 AM

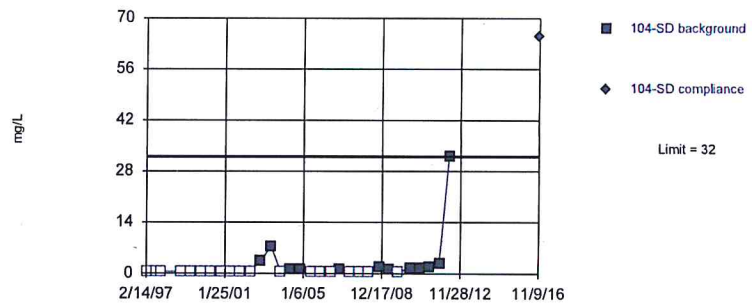
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

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 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.007136. Individual comparison alpha = 0.001789 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 9:06 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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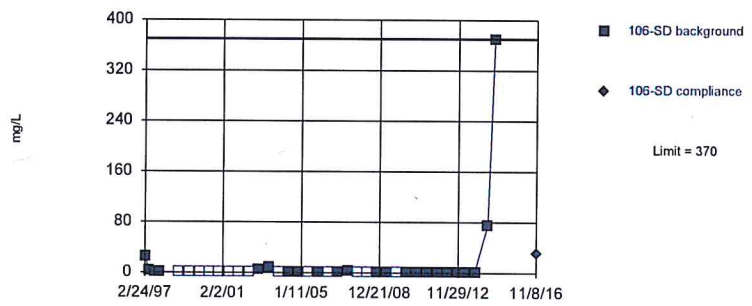
Hollow symbols indicate censored values.

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 0.01 alpha level. Limit is highest of 37 background values. 37.84% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001353 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 9:07 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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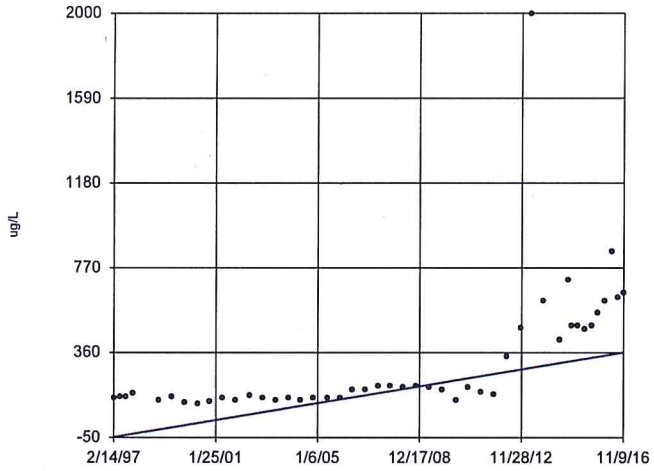
Sen's Slope Estimator

104-SD



n = 46

Slope = 20.62 units per year.

Mann-Kendall normal approx. = 6.231 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

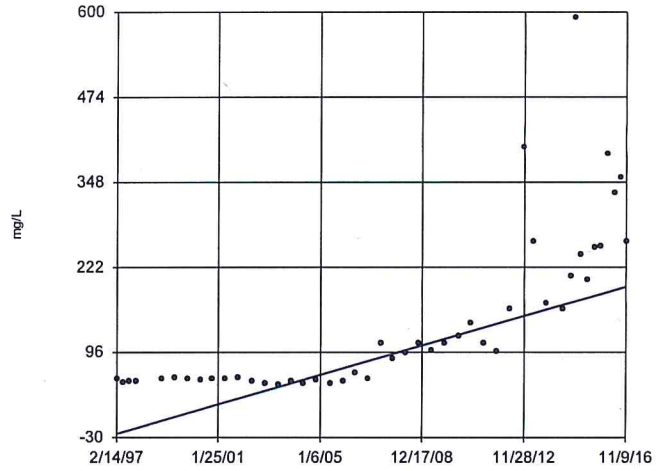
Constituent: Barium Total Analysis Run 1/3/2017 10:16 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 46

Slope = 11.05 units per year.

Mann-Kendall normal approx. = 6.726 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

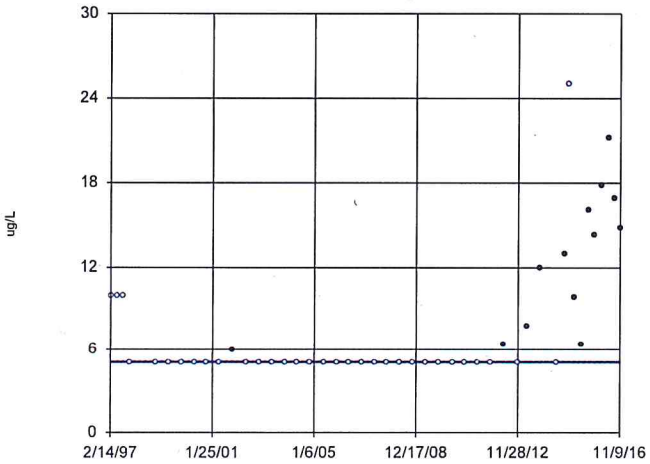
Constituent: Chloride Analysis Run 1/3/2017 10:16 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD



n = 46

Slope = 0 units per year.

Mann-Kendall normal approx. = 3.577 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

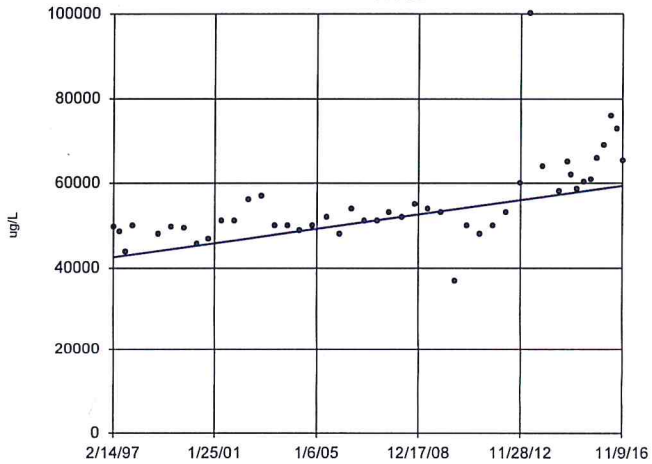
Constituent: Chromium Total Analysis Run 1/3/2017 10:16 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 46

Slope = 851.3 units per year.

Mann-Kendall normal approx. = 5.71 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

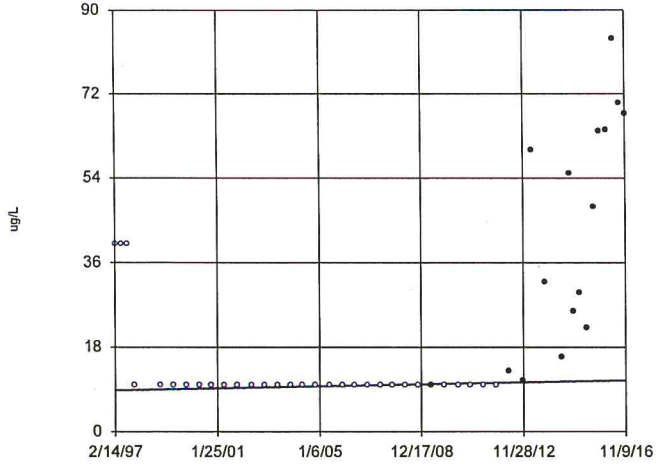
Constituent: Magnesium Total Analysis Run 1/3/2017 10:16 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD



n = 46

Slope = 0.1052 units per year.

Mann-Kendall normal approx. = 4.327
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Nickel Total Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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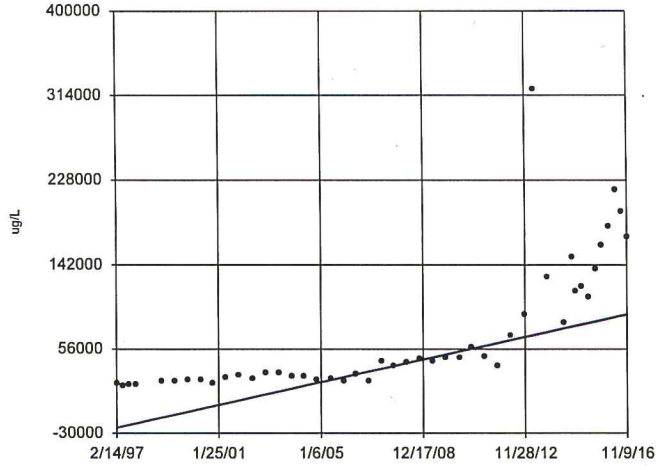
Sen's Slope Estimator

104-SD



n = 46

Slope = 5852 units per year.

Mann-Kendall normal approx. = 7.852
critical = 2.33

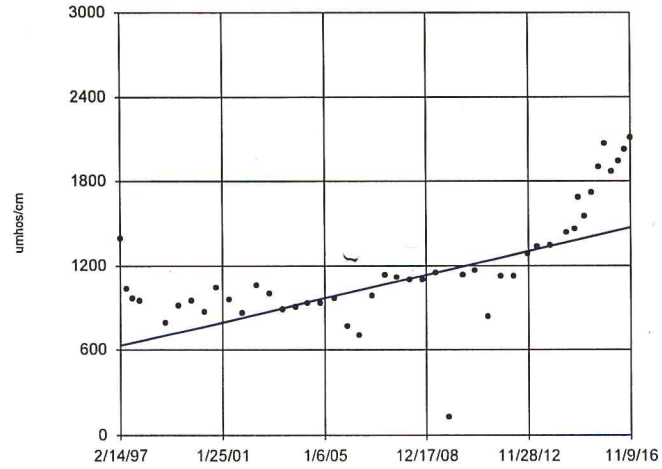
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 46

Slope = 42.37 units per year.

Mann-Kendall normal approx. = 5.785
critical = 2.33

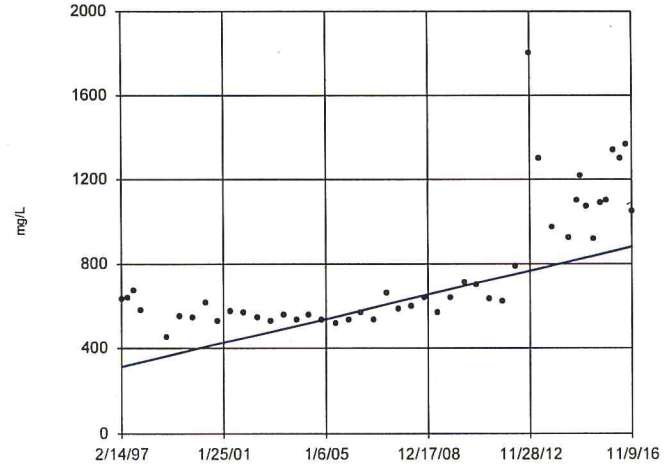
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 46

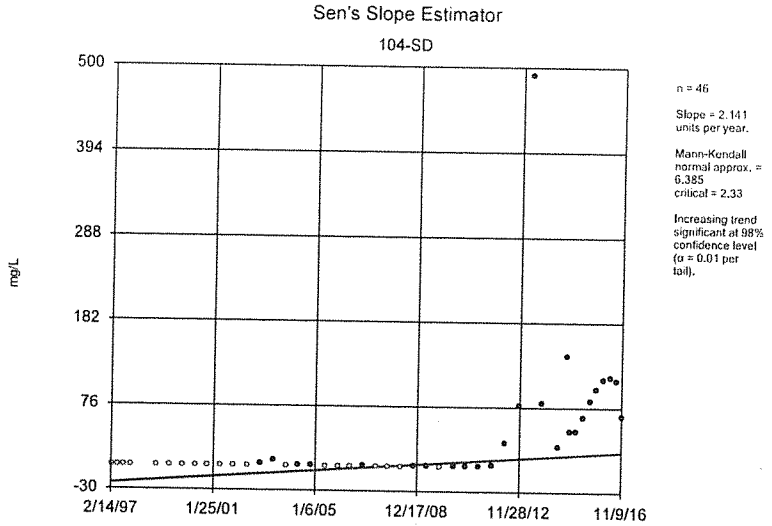
Slope = 28.57 units per year.

Mann-Kendall normal approx. = 5.401
critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Hollow symbols indicate censored values.



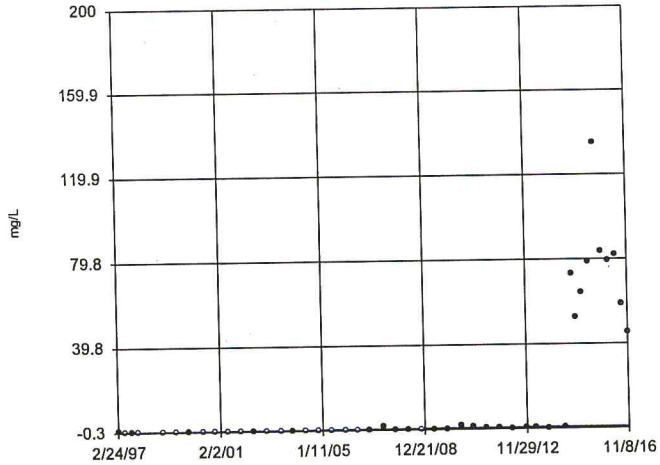
Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 10:16 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD



n = 46

Slope = 0.04101 units per year.

Mann-Kendall normal approx. = 6.093 critical = 2.33

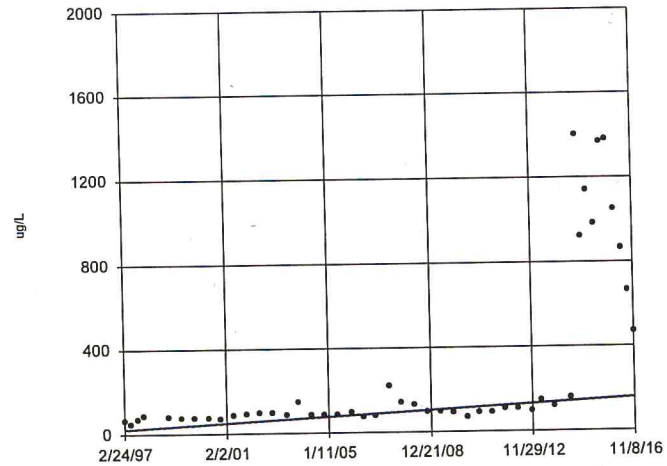
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Ammonia as N Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SD



n = 46

Slope = 6.868 units per year.

Mann-Kendall normal approx. = 6.148 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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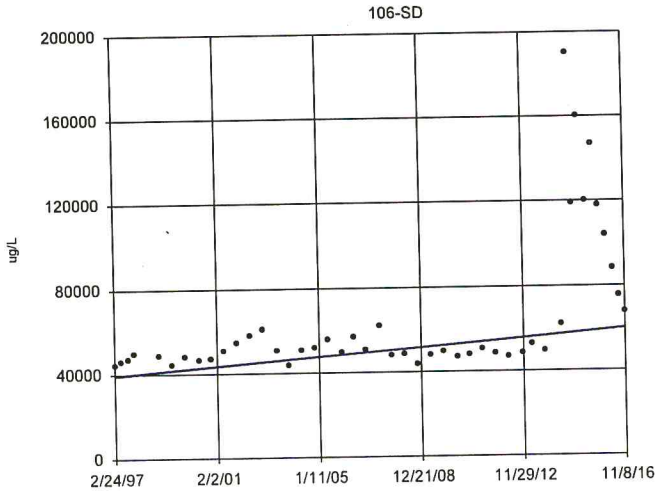
Sen's Slope Estimator

106-SD



n = 46

Slope = 1060 units per year.

Mann-Kendall normal approx. = 4.067 critical = 2.33

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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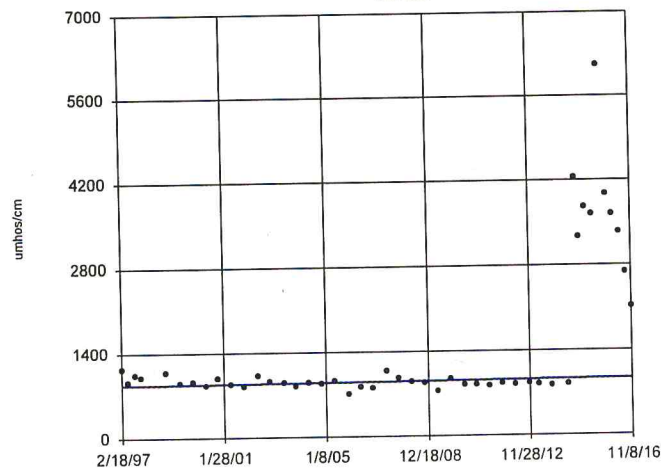
Sen's Slope Estimator

106-SD



n = 46

Slope = 3.193 units per year.

Mann-Kendall normal approx. = 0.5492 critical = 2.33

Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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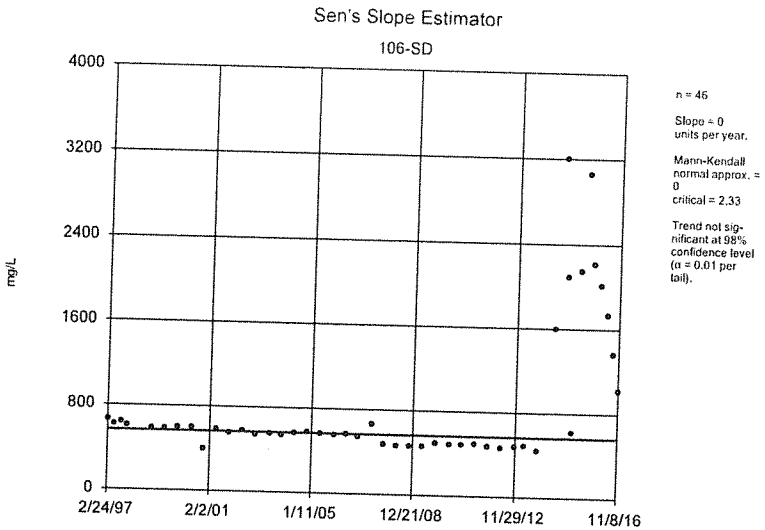
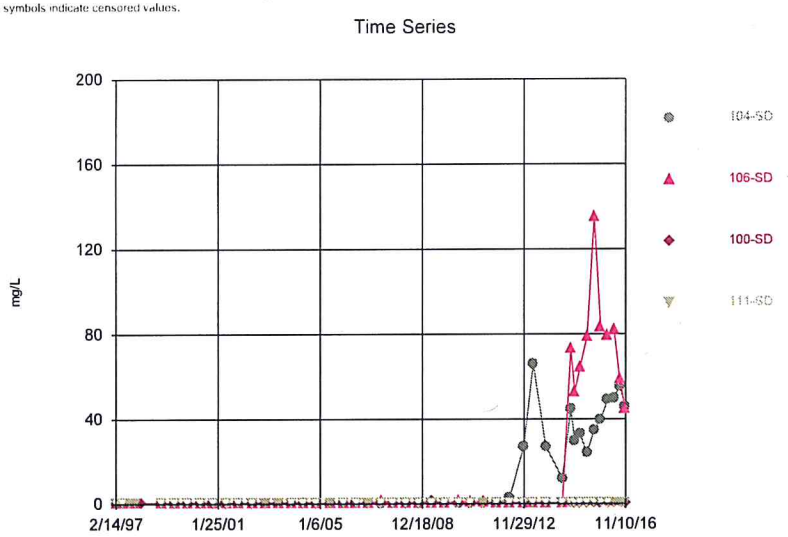


Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:16 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

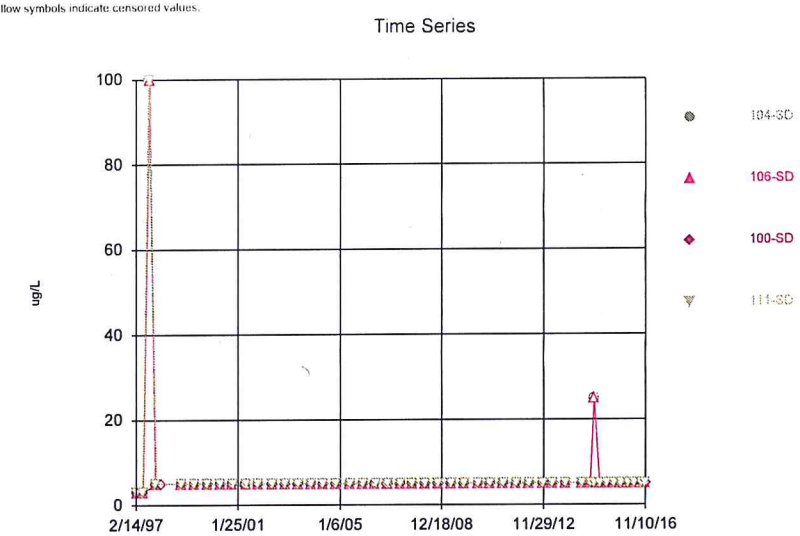
TIME SERIES GRAPHS

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



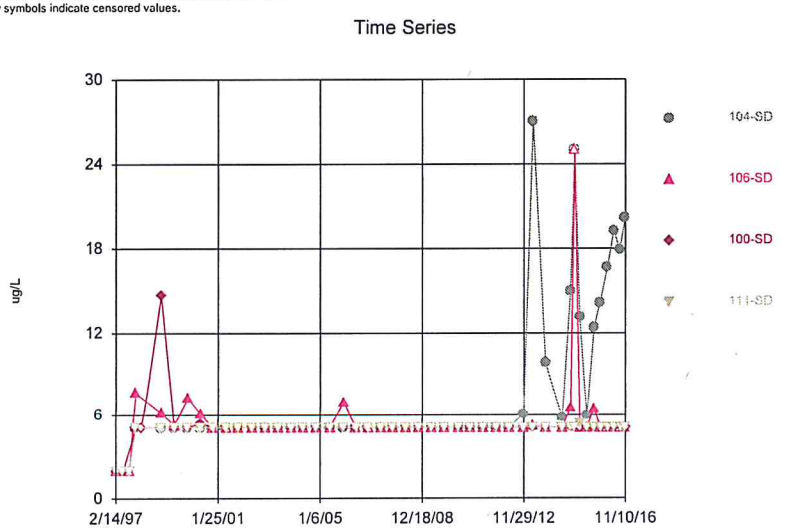
Constituent: Ammonia as N Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



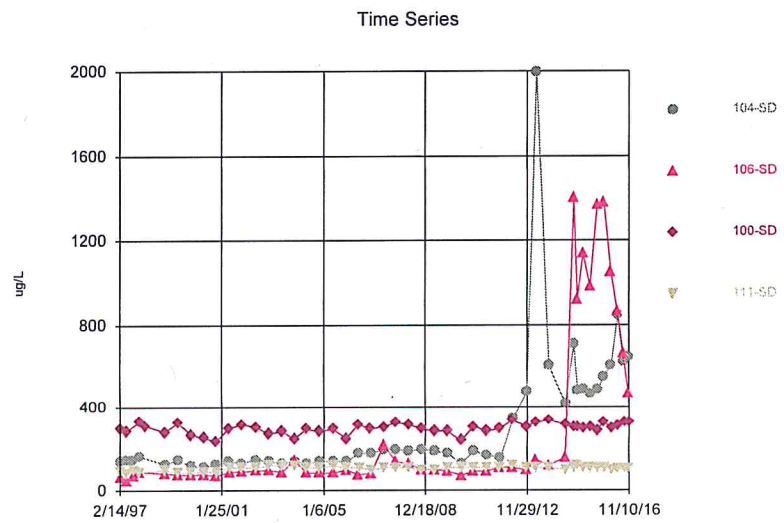
Constituent: Antimony Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



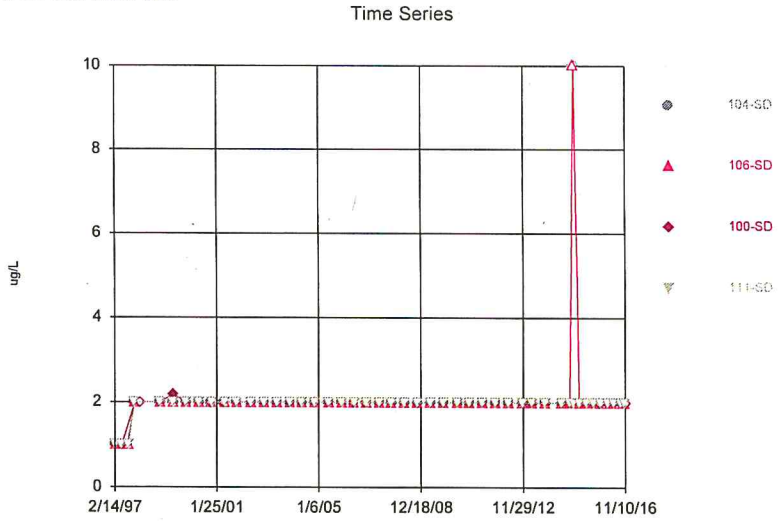
Constituent: Arsenic Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



Constituent: Barium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Beryllium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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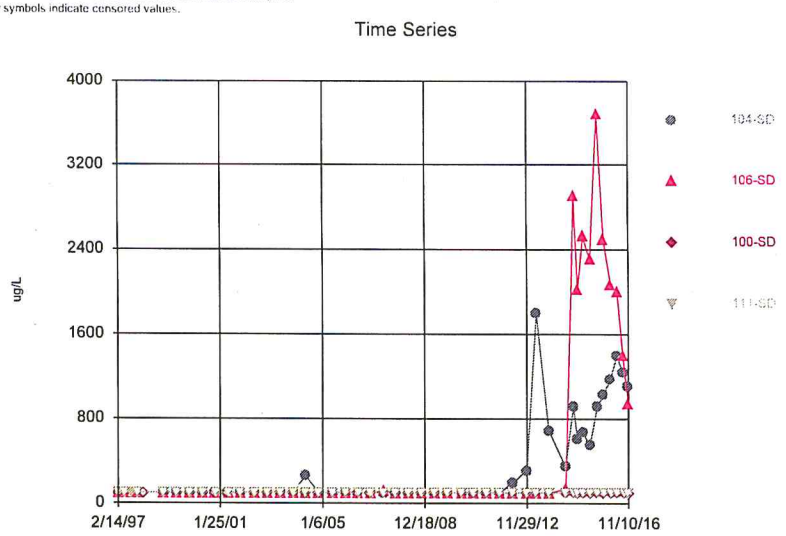
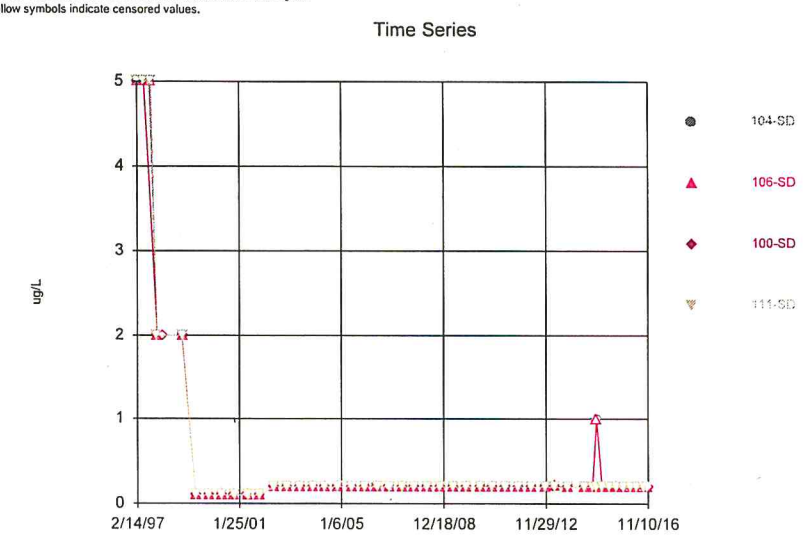
Hollow symbols indicate censored values.



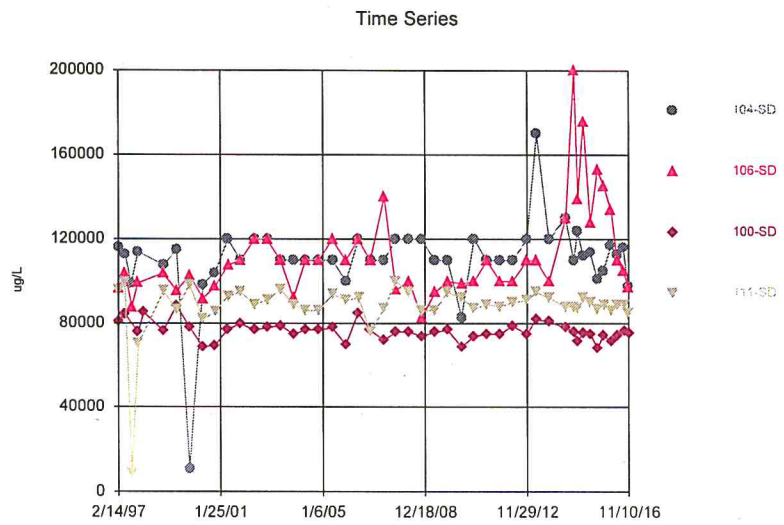
Constituent: Boron Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



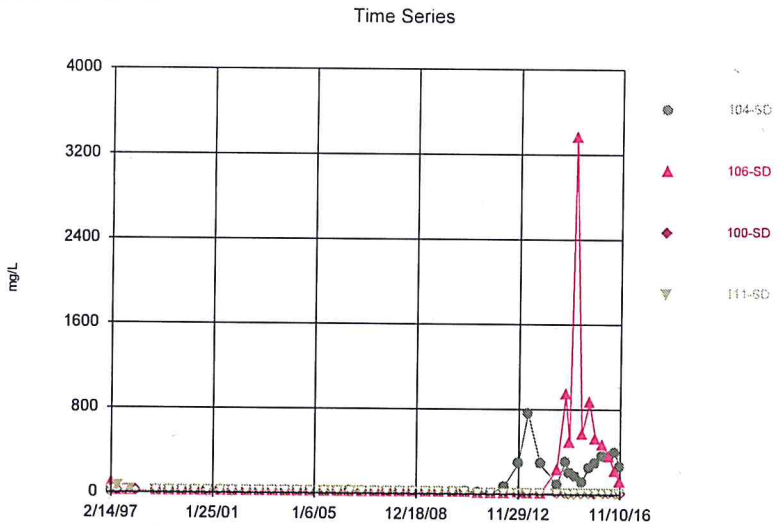
Constituent: Cadmium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



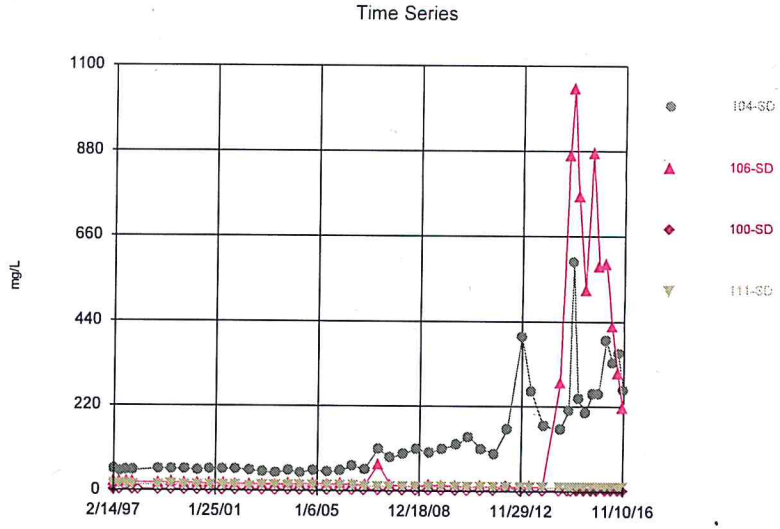
Constituent: Calcium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



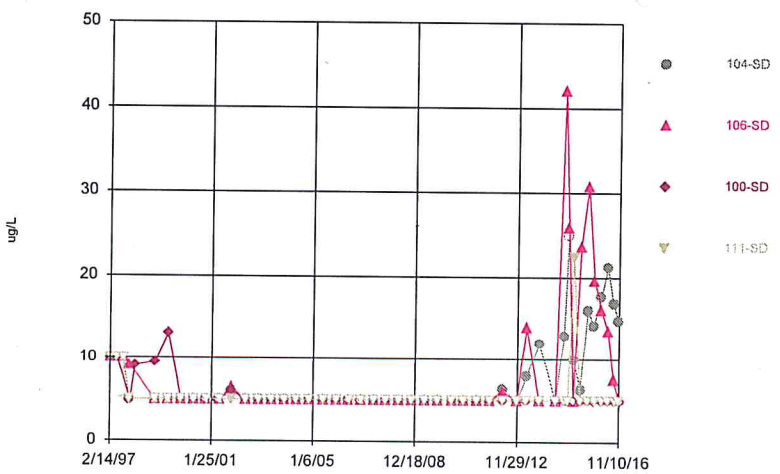
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Chloride Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Chromium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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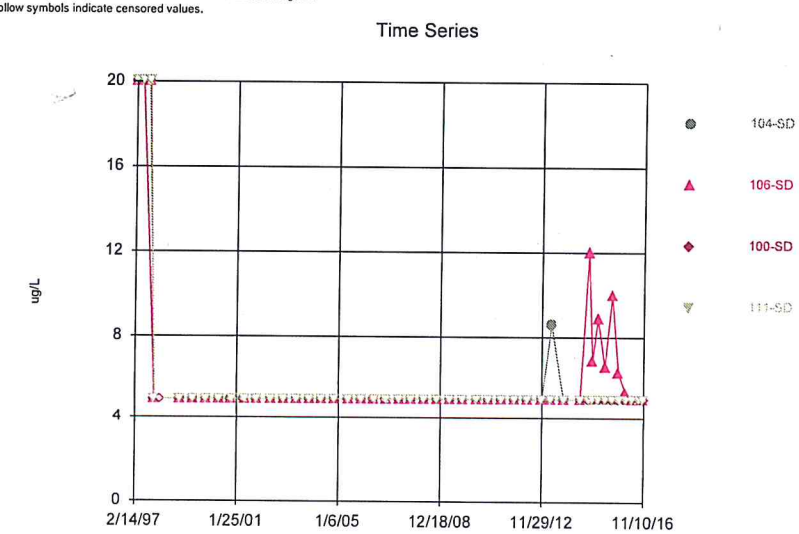
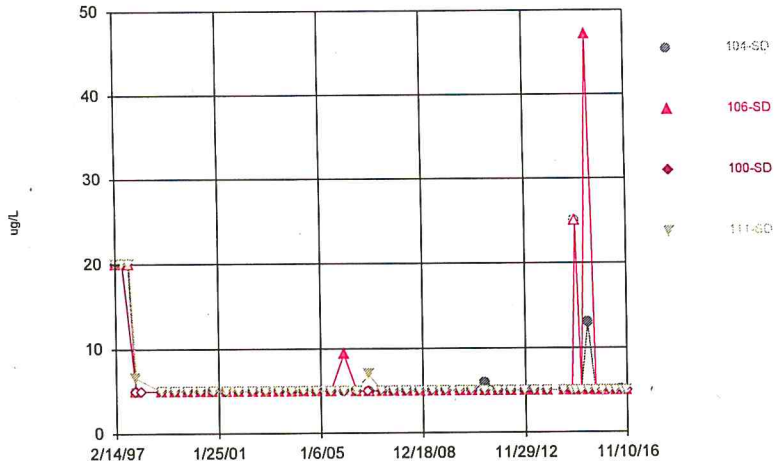
Hollow symbols indicate censored values.



Constituent: Cobalt Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

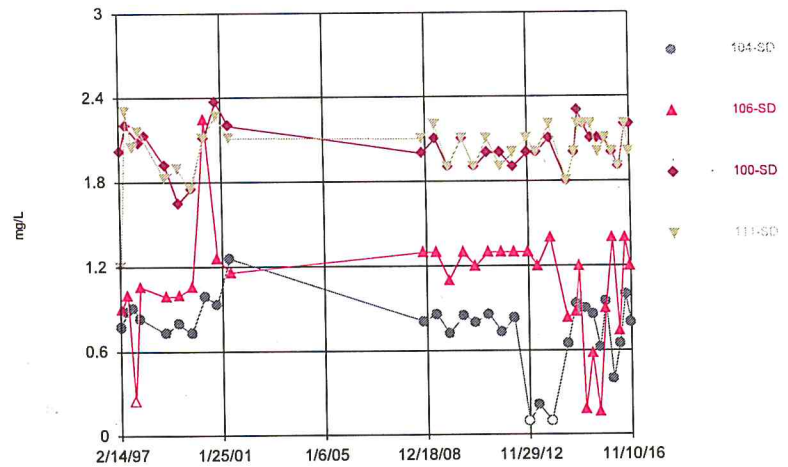
Time Series



Constituent: Copper Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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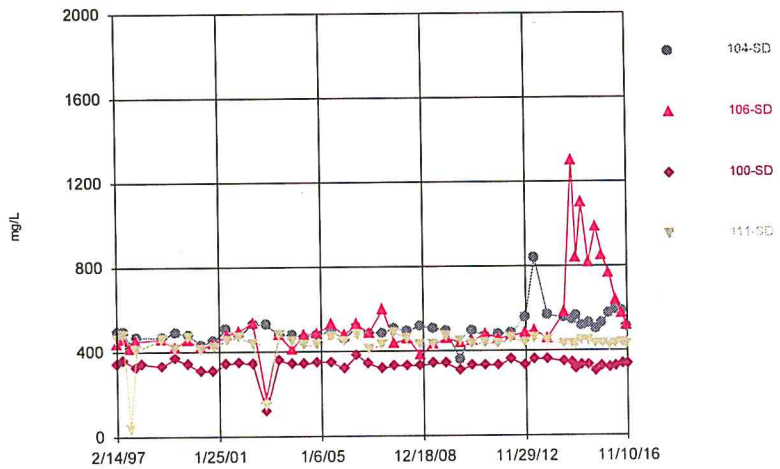
Time Series



Constituent: Hardness Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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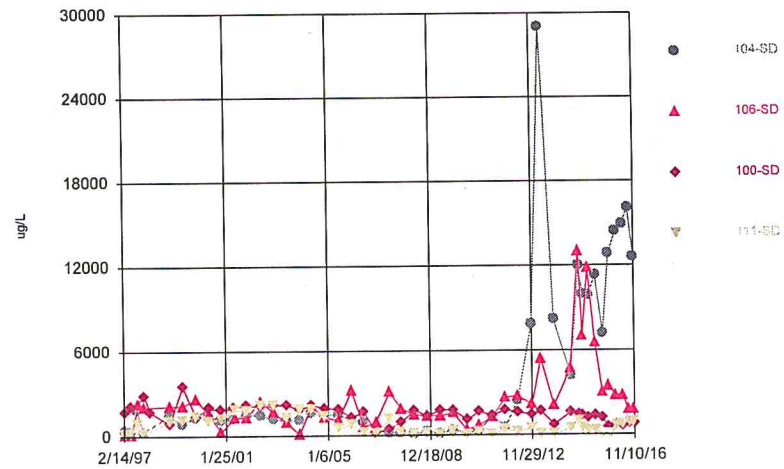
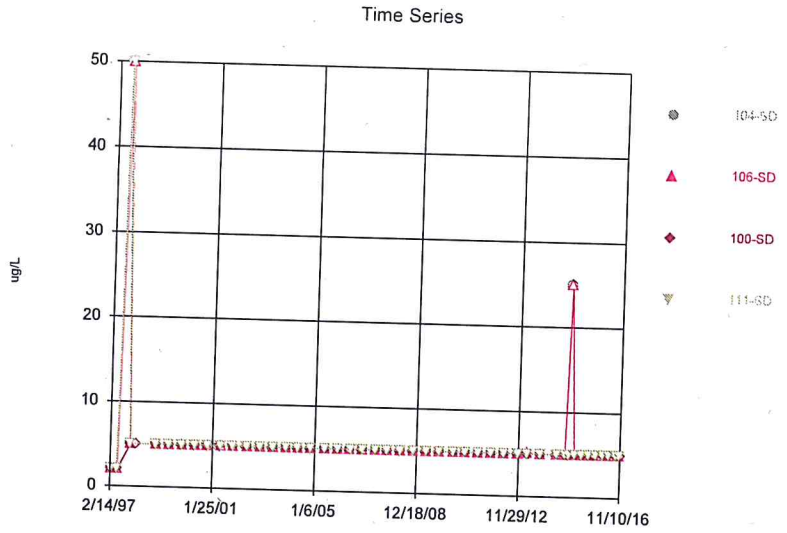
Hollow symbols indicate censored values.

Time Series



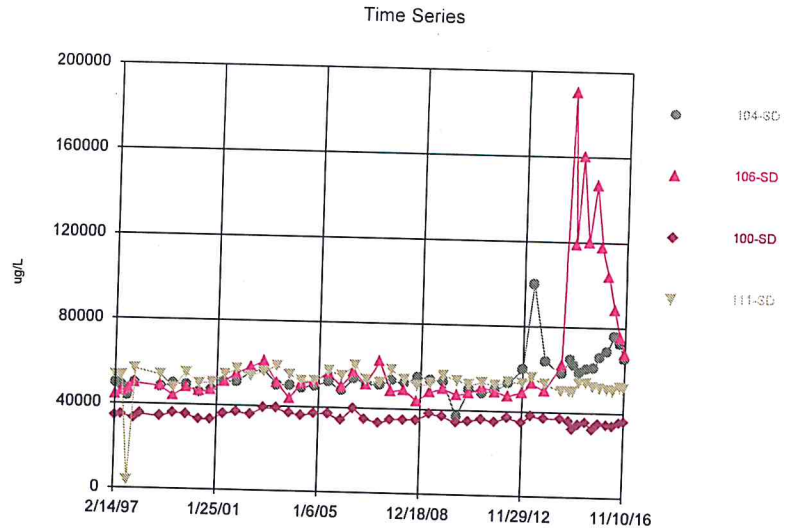
Constituent: Iron Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



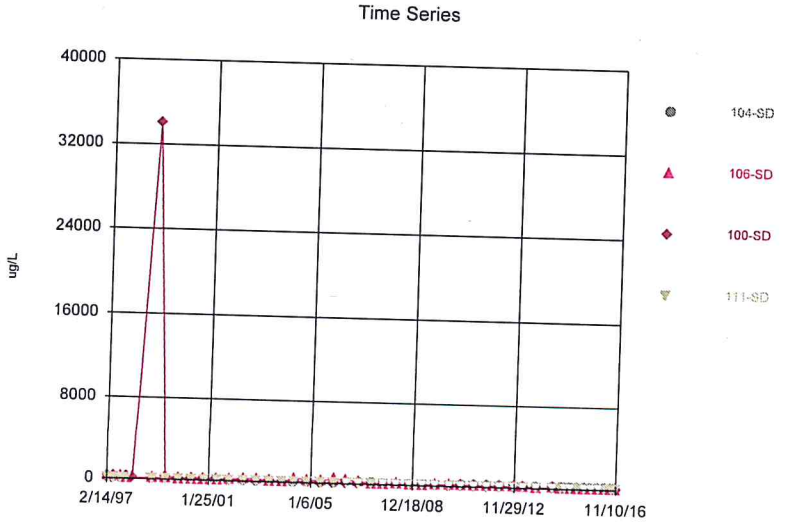
Constituent: Lead Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



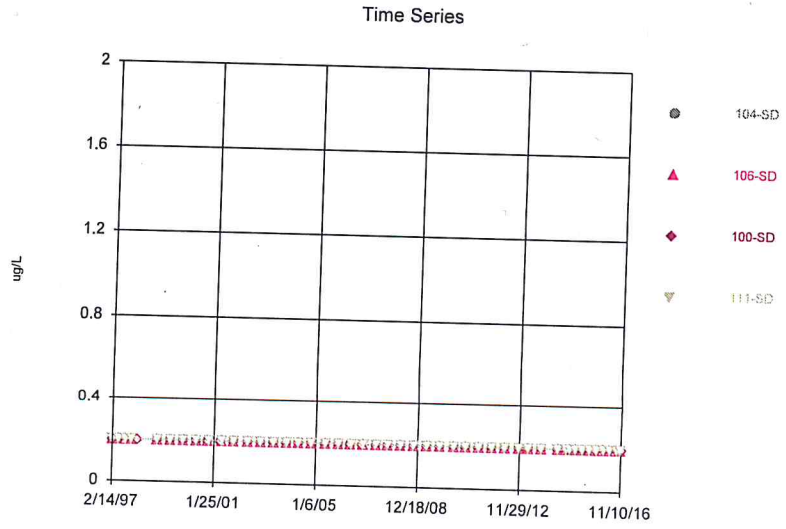
Constituent: Magnesium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



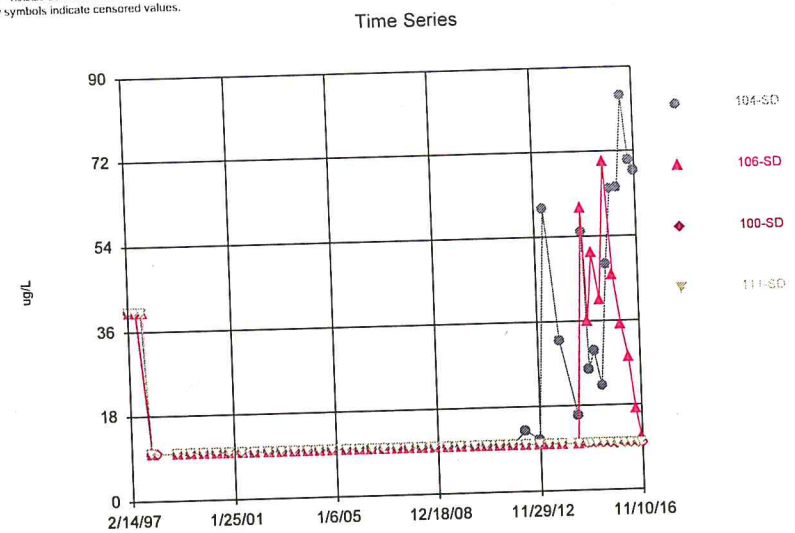
Constituent: Manganese Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



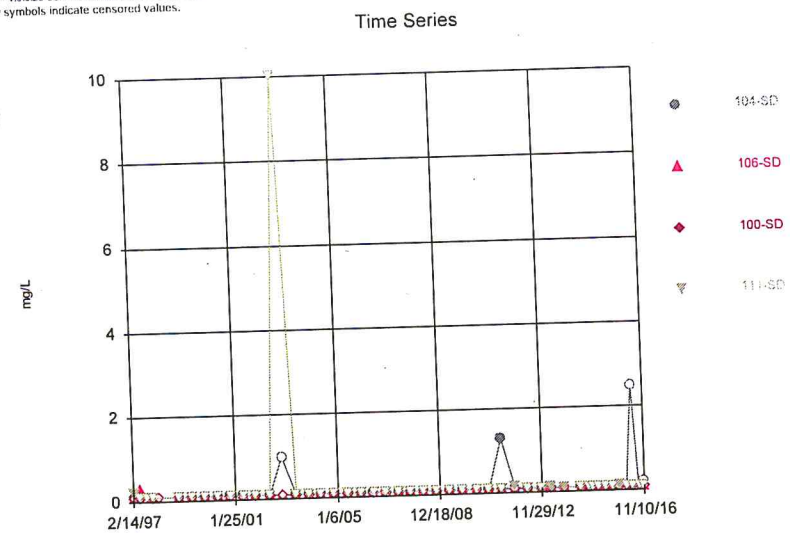
Constituent: Mercury Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



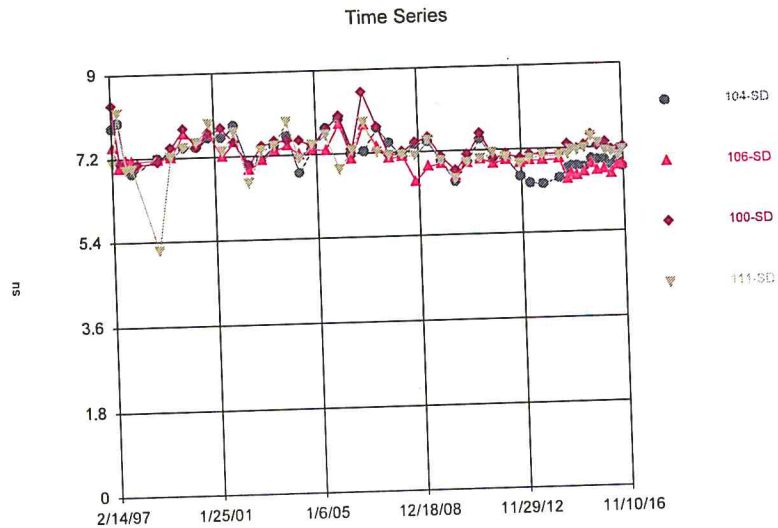
Constituent: Nickel Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



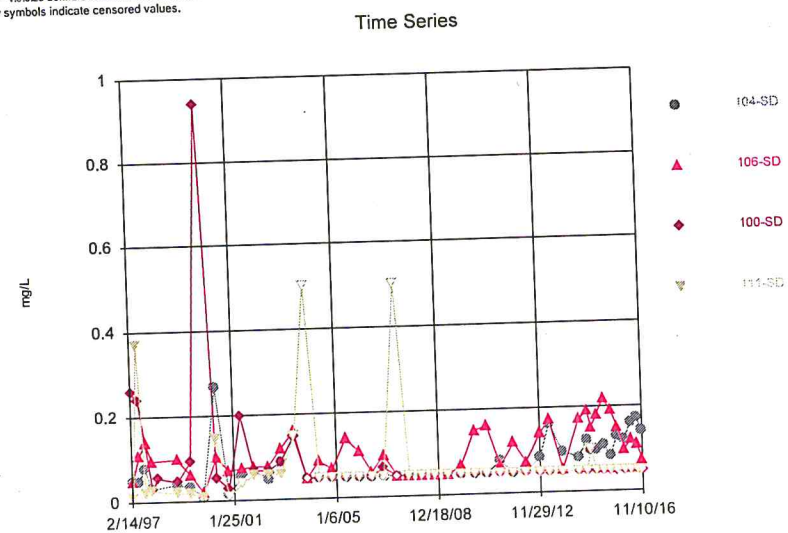
Constituent: Nitrate/Nitrite Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



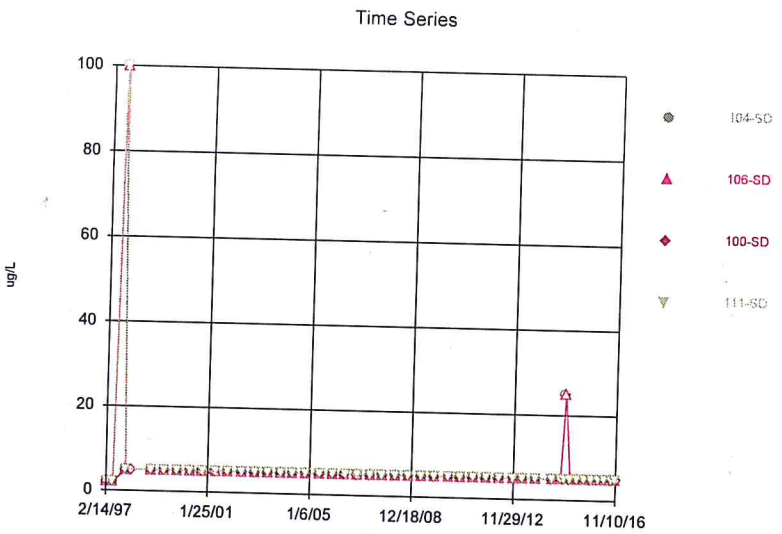
Constituent pH [Field] Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



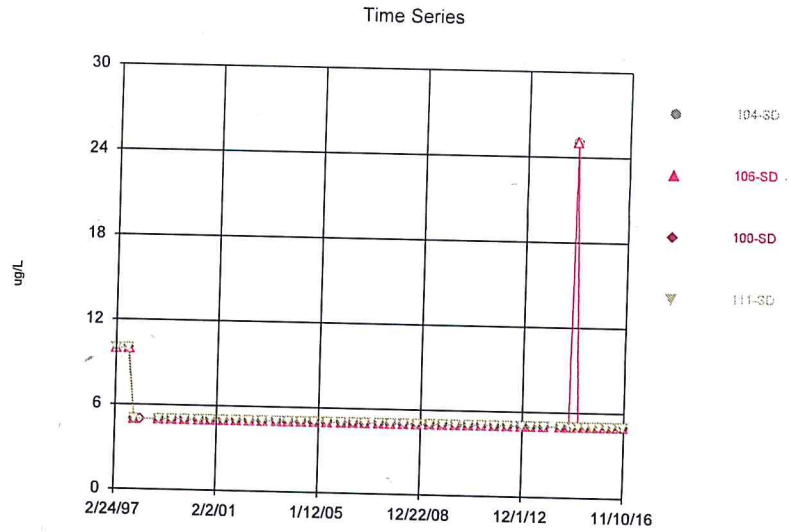
Constituent: Phosphorus Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



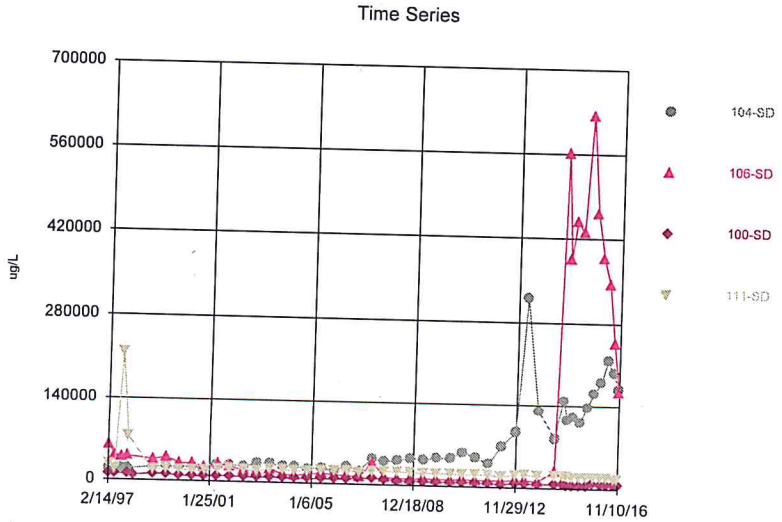
Constituent: Selenium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



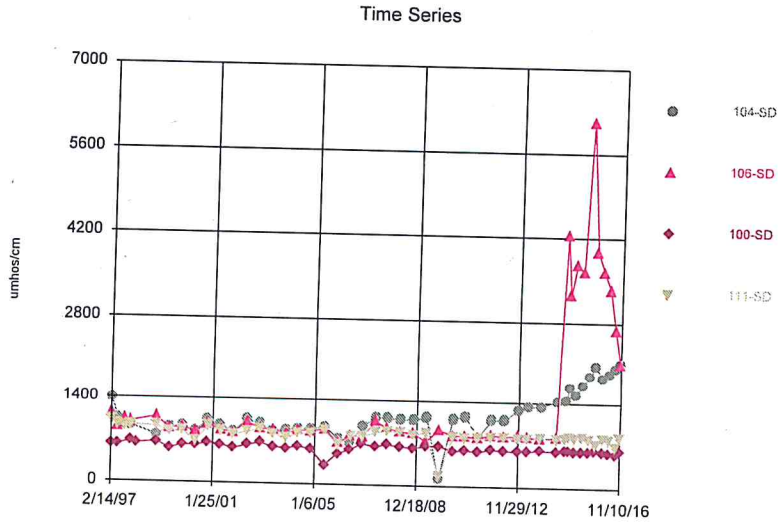
Constituent: Silver Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



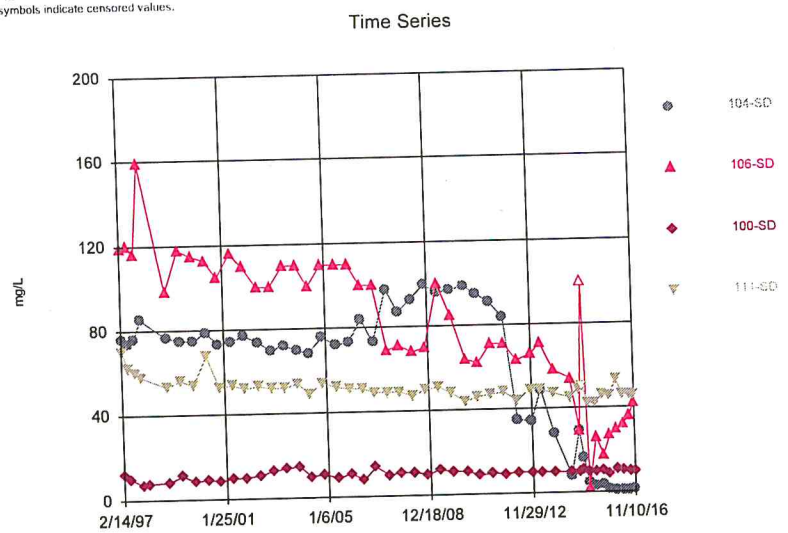
Constituent: Sodium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



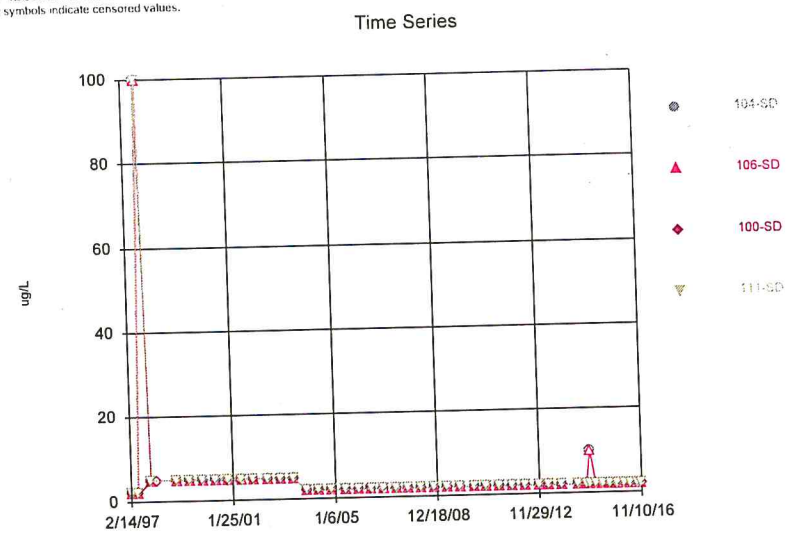
Constituent: Specific Conductance [Field] Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



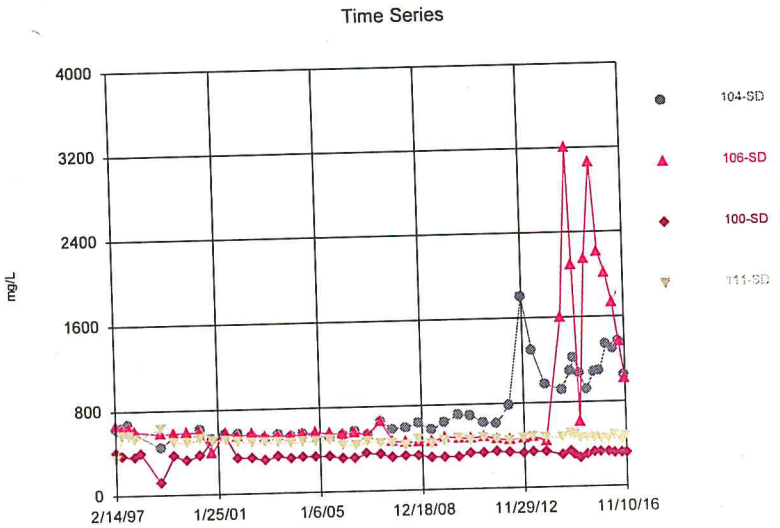
Constituent: Sulfate Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



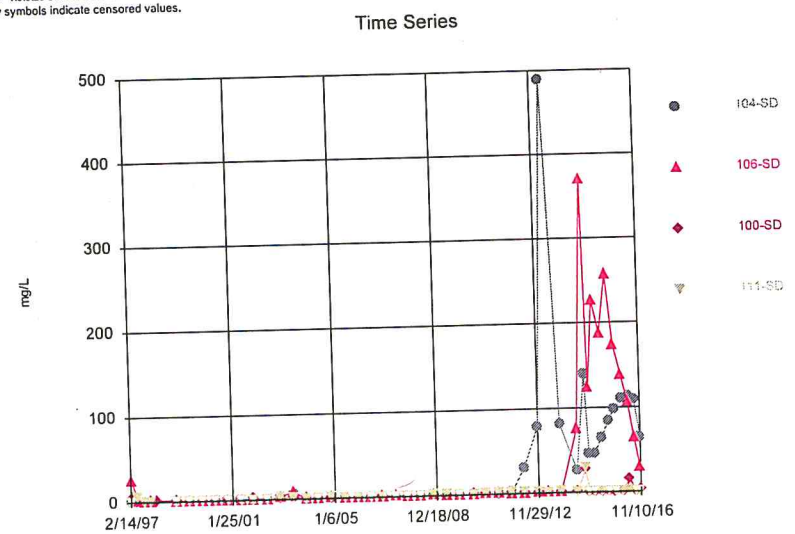
Constituent: Thallium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG



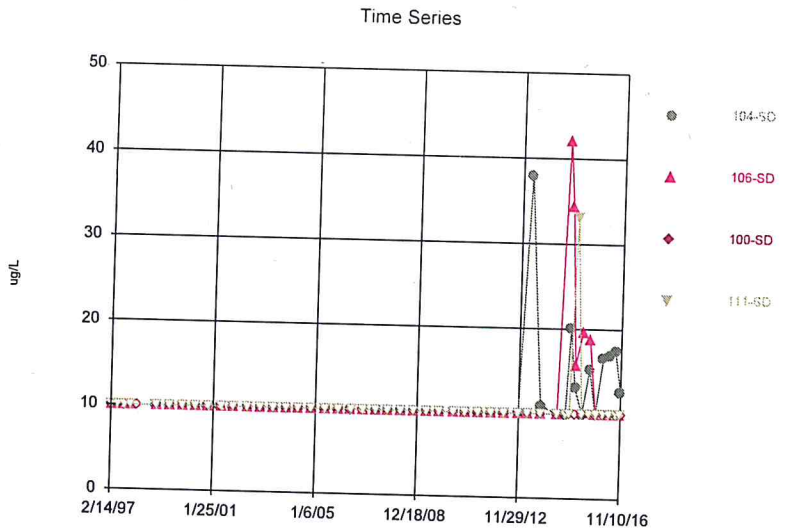
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Total Organic Carbon [TOC] Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, LLC
Hollow symbols indicate censored values.



Constituent: Vanadium Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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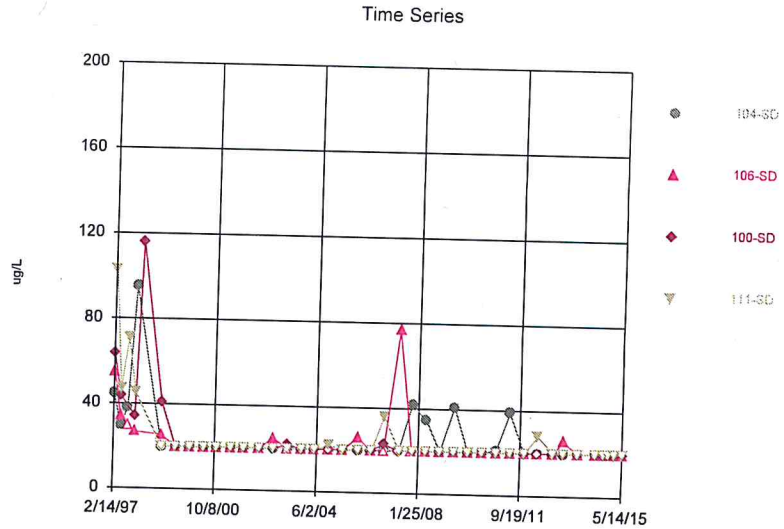
Hollow symbols indicate censored values.



Constituent: Zinc Total Analysis Run 1/3/2017 10:09 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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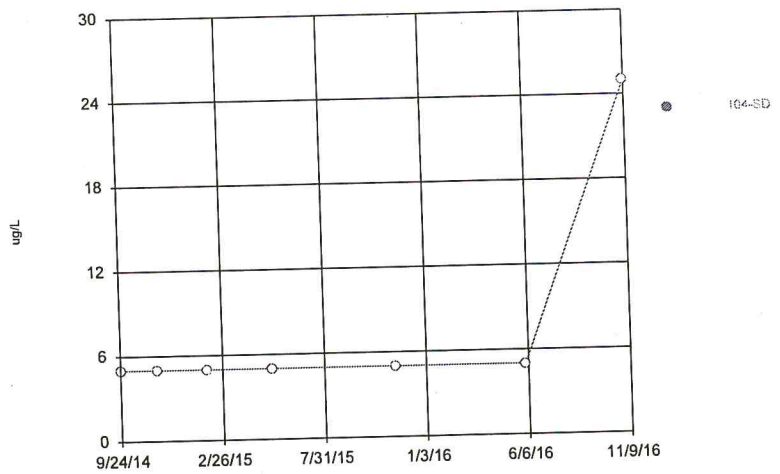
Hollow symbols indicate censored values.

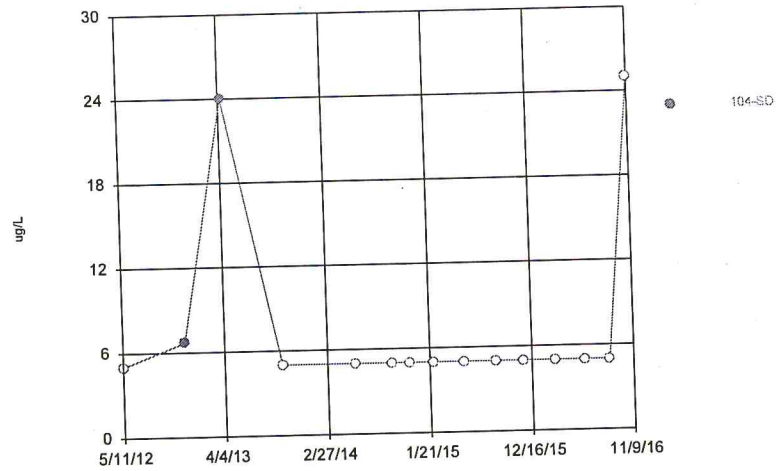
Time Series



Constituent: 124-Trimethylbenzene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

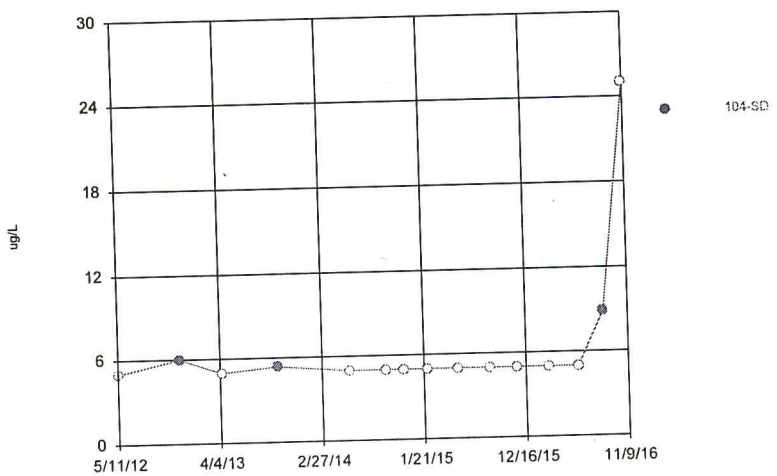
Time Series



Constituent: 12-Dichloroethane Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

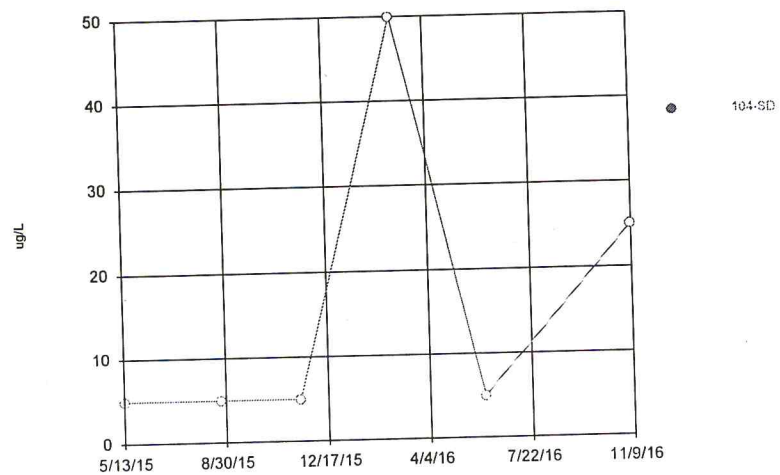
Time Series



Constituent: 14-Dichlorobenzene Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

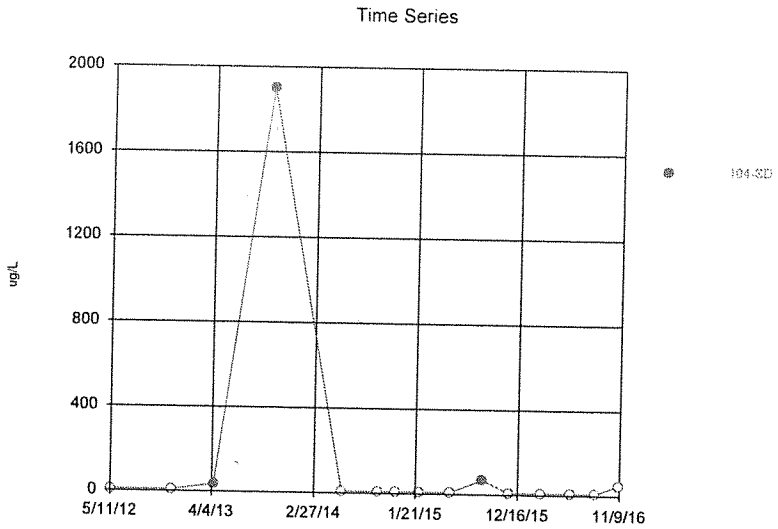
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



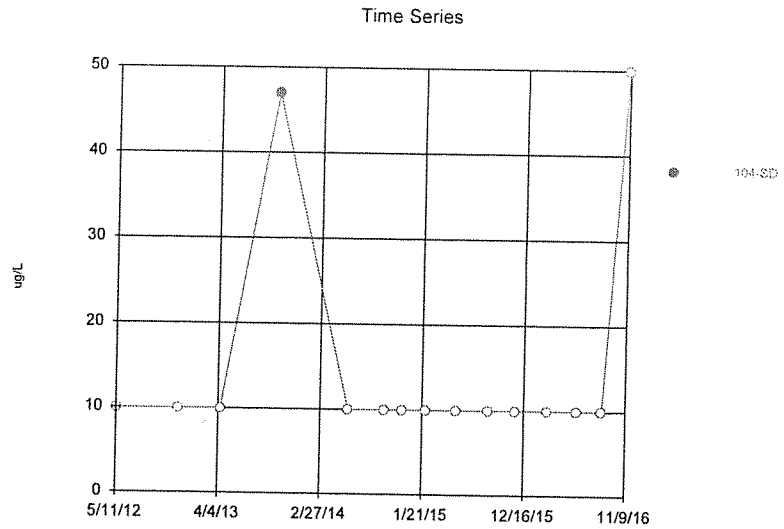
Constituent: 1-Chlorobutane Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



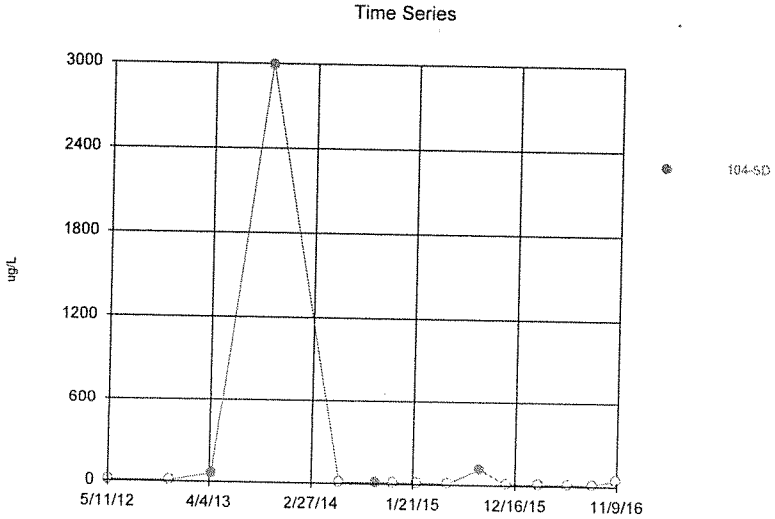
Constituent: 2-Butanone [MEK] Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



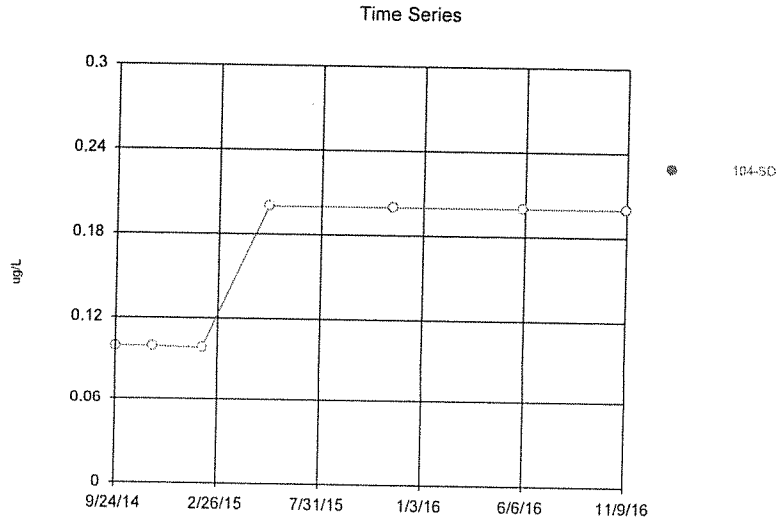
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Acetone Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

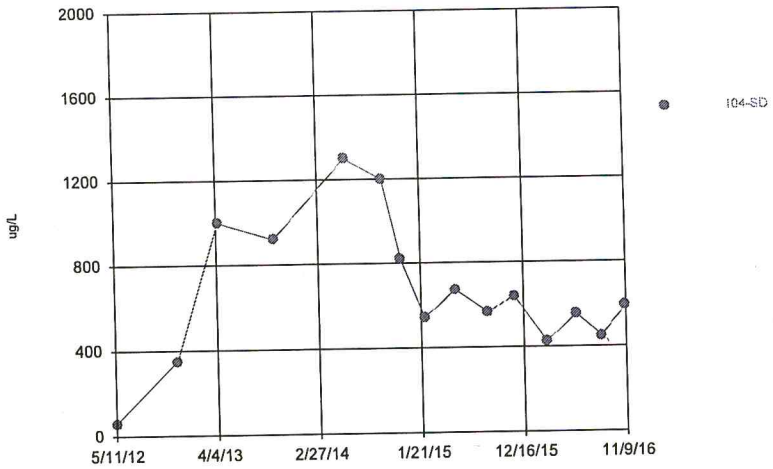
Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Aroclor 1221 Analysis Run 1/3/2017 4:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting. UG

Time Series



Constituent: Benzene Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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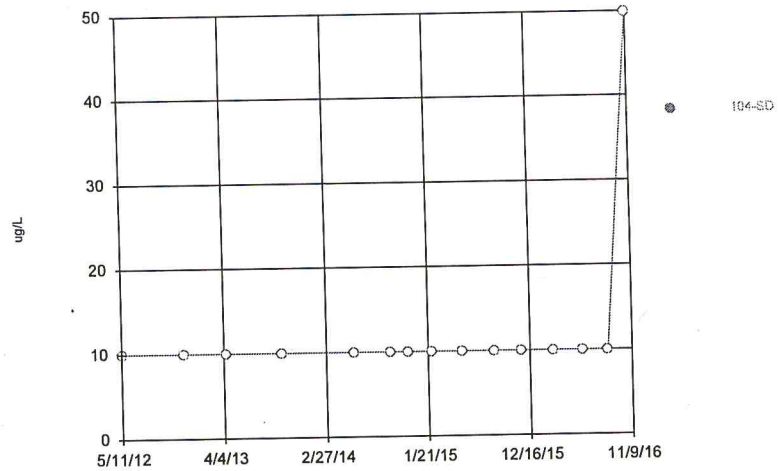
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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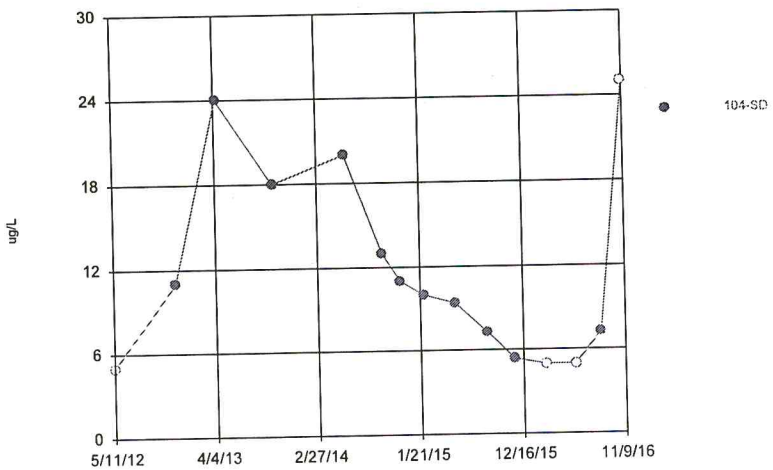
Hollow symbols indicate censored values.

Time Series



Constituent: Ethylbenzene Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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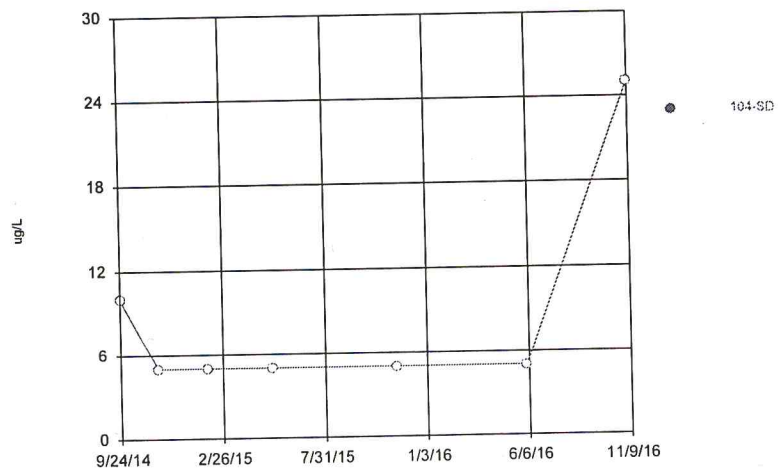
Hollow symbols indicate censored values.

Time Series



Constituent: Isopropylbenzene Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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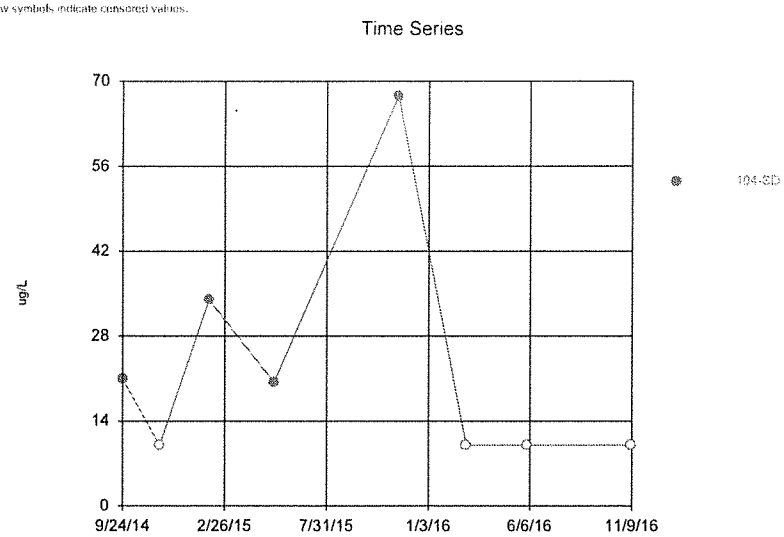
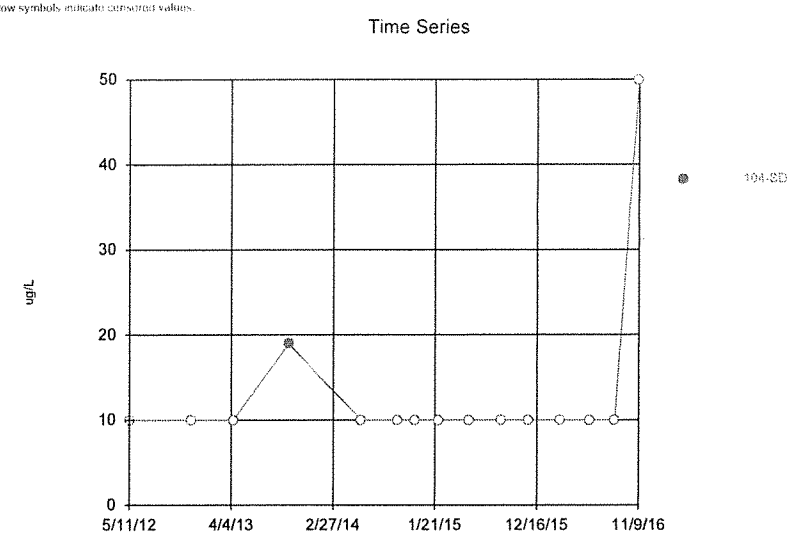
Hollow symbols indicate censored values.



Constituent: m+p-Cresols Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.28 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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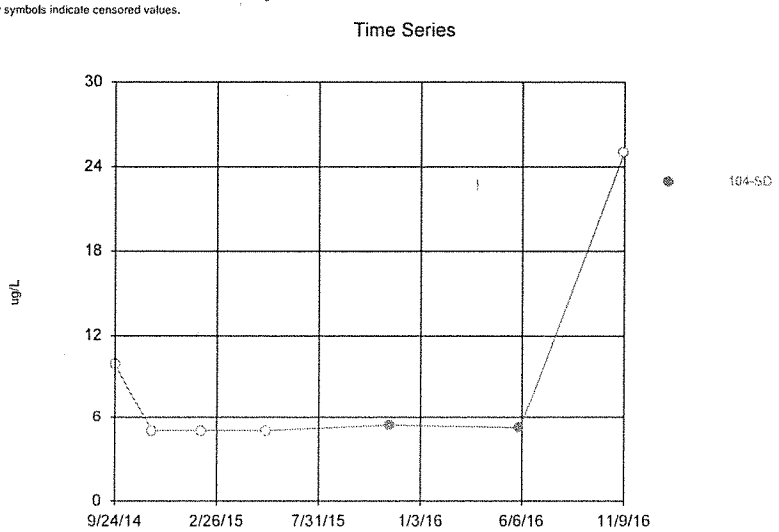
Hollow symbols indicate censored values.



Constituent: Methyl-tert-butyl ether Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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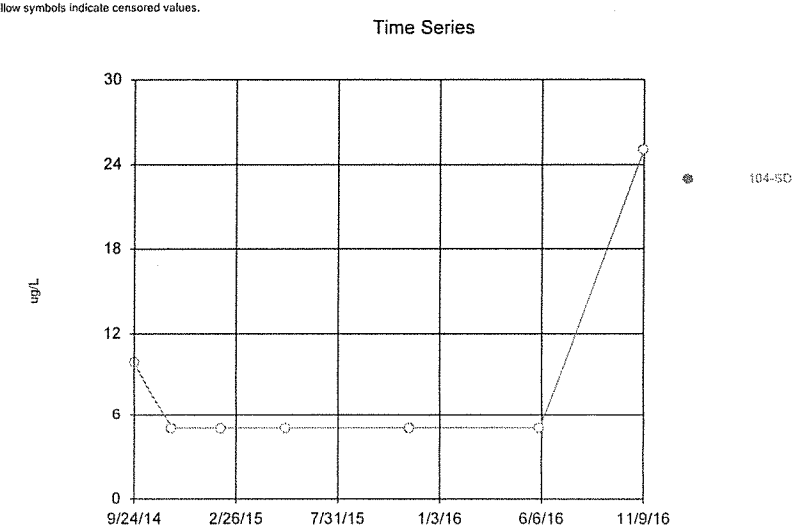
Hollow symbols indicate censored values.



Constituent: p-Isopropyltoluene Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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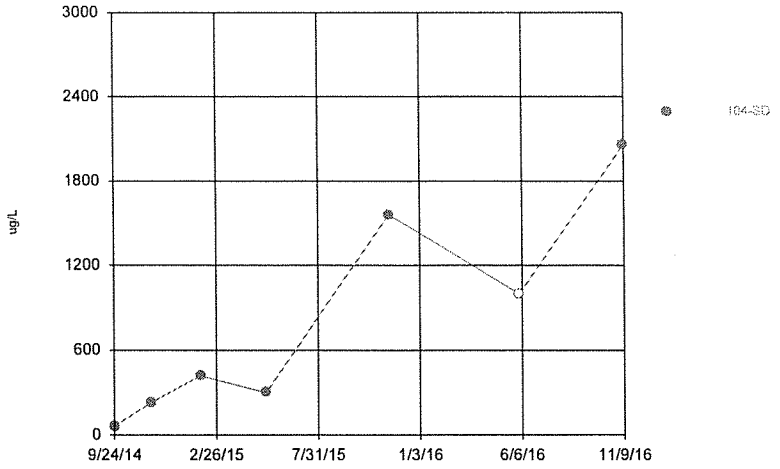
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrahydrofuran Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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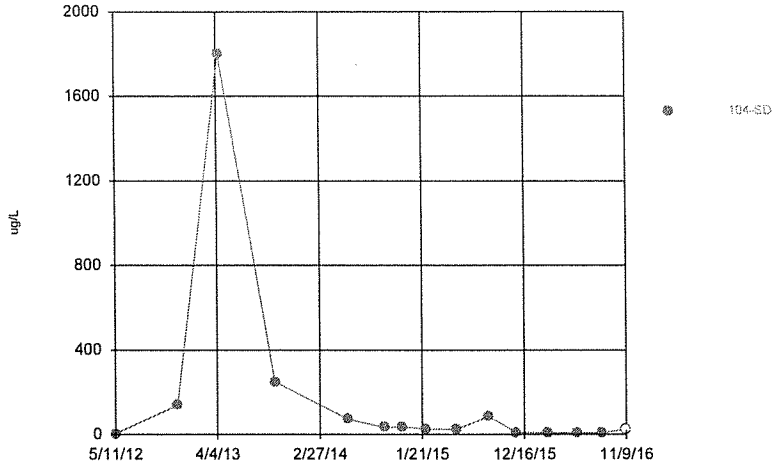
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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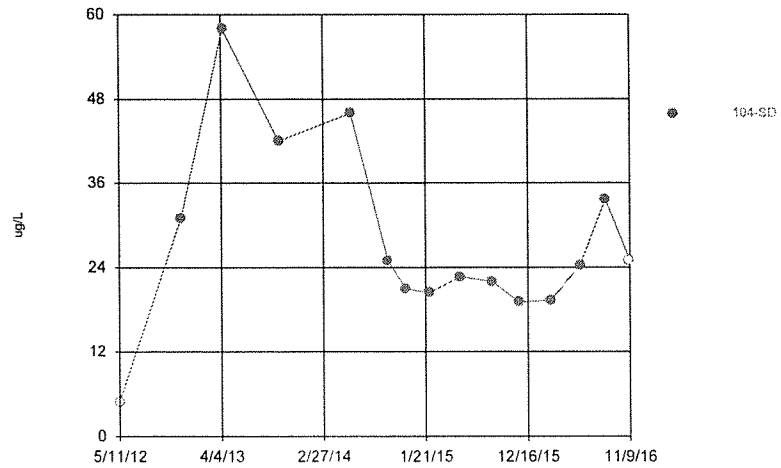
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes Total Analysis Run 1/3/2017 5:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX F
LABORATORY ANALYTICAL REPORT

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

December 15, 2016

Environmental Manager
Bridgeton Landfill LLC
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Dear Environmental Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between November 10, 2016 and November 23, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revised Report-THF reported PZ-104-SD and Dup 12-15-16 cls

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

Sincerely,

Chris Sarkan
chris.sarkan@pacelabs.com
Project Manager

Enclosures

cc. Mr. Steve Jett, Jett Environmental Consulting
Ms Dana Sincox, Republic Services, Inc
Mr. Jon Wilkinson, Feezor Engineering, Inc.

NELAP ACCREDITED LABORATORY

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019

Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50159795001	PZ-209-SS	Water	11/21/16 10:45	11/23/16 09:10
50159795002	PZ-209-SD	Water	11/21/16 11:54	11/23/16 09:10
50159795003	PZ-209-SD DUP	Water	11/21/16 11:54	11/23/16 09:10
50159795004	PZ-211-SD	Water	11/21/16 14:23	11/23/16 09:10
50159795005	PZ-211-SS	Water	11/21/16 15:11	11/23/16 09:10
50159795006	PZ-201A-SS	Water	11/21/16 16:01	11/23/16 09:10
50159795007	PZ-210-SD	Water	11/22/16 09:46	11/23/16 09:10
50159795008	PZ-210-SS	Water	11/22/16 10:39	11/23/16 09:10
50159795009	PZ-115-SS	Water	11/22/16 11:37	11/23/16 09:10
50159795010	PZ-114-AS	Water	11/22/16 12:49	11/23/16 09:10
50159795011	TRIP BLANK	Water	11/22/16 08:00	11/23/16 09:10
50158656001	PZ-111-SD	Water	11/08/16 09:07	11/10/16 08:15
50158656002	PZ-110-SS	Water	11/08/16 10:16	11/10/16 08:15
50158656003	PZ-109-SS	Water	11/08/16 11:23	11/10/16 08:15
50158656004	PZ-205-SS	Water	11/08/16 14:00	11/10/16 08:15
50158656005	PZ-106-SD	Water	11/08/16 15:23	11/10/16 08:15
50158656006	PZ-106-SS	Water	11/08/16 16:22	11/10/16 08:15
50158656008	PZ-105-SS	Water	11/09/16 11:26	11/10/16 08:15
50158656010	PZ-104-SD	Water	11/09/16 16:00	11/10/16 08:15
50158656011	PZ-104-SD Dup	Water	11/09/16 16:00	11/10/16 08:15
50158656012	Trip Blank	Water	11/09/16 08:00	11/10/16 08:15
50158656018	PZ-100-SD	Water	11/10/16 08:41	11/12/16 12:15
50158656019	PZ-100-SS	Water	11/10/16 09:24	11/12/16 12:15
50158656020	FB@PZ-104-KS	Water	11/10/16 09:55	11/12/16 12:15
50158656021	PZ-104-KS	Water	11/10/16 11:19	11/12/16 12:15
50158656022	PZ-104-SS	Water	11/10/16 14:01	11/12/16 12:15

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Pace Analytical Services, LLC
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Indianapolis, IN 46
(317)229-3

SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50159795001	PZ-209-SS	EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
		SM 4500-S2-D	TPD	1
50159795002	PZ-209-SD	EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
		SM 4500-S2-D	TPD	1
50159795003	PZ-209-SD DUP	EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
		SM 4500-S2-D	TPD	1
50159795004	PZ-211-SD	EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
		SM 4500-S2-D	TPD	1
50159795005	PZ-211-SS	EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
		SM 4500-S2-D	TPD	1
50159795006	PZ-201A-SS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	RSW	50
		SM 2540C	MLS	1
		EPA 410.4	CSA	1

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(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50159795007	PZ-210-SD	EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
50159795008	PZ-210-SS	SM 4500-S2-D	TPD	1
		EPA 8082	NPW	2
		EPA 6010	FRW	4
		EPA 6020	DMT	8
		EPA 8270	TBP	8
		EPA 8260	RSW	19
50159795009	PZ-115-SS	SM 4500-S2-D	TPD	1
		EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	RSW	50
		SM 2540C	MLS	1
		EPA 410.4	CSA	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
50159795010	PZ-114-AS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	RSW	50
		SM 2540C	MLS	1
		EPA 410.4	CSA	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50159795011	TRIP BLANK	SM 5310C	CSA	1
50158656001	PZ-111-SD	EPA 8260	RSW	50
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
50158656002	PZ-110-SS	SM 5310C	CSA	1
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
50158656003	PZ-109-SS	SM 5310C	CSA	1
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
50158656004	PZ-205-SS	SM 5310C	CSA	1
		EPA 9056	RID	3
		EPA 6010	JPK	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
50158656005	PZ-106-SD	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
50158656006	PZ-106-SS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
50158656008	PZ-105-SS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	MLS	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50158656010	PZ-104-SD	EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 8082	NPW	2
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	DAE	57
		SM 2540C	MLS	1
50158656011	PZ-104-SD Dup	EPA 410.4	ZM	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 8082	NPW	2
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	DAE	57
		SM 2540C	MLS	1
50158656012	Trip Blank	EPA 410.4	ZM	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 8260	DAE	50
50158656018	PZ-100-SD	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50158656019	PZ-100-SS	EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
50158656020	FB@PZ-104-KS	EPA 7470	JGJ	1
		EPA 8260	DAE	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	EJS	1
		EPA 8082	NPW	2
		EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
50158656021	PZ-104-KS	EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	DAE	57
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1
		EPA 8082	NPW	2
		EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50158656022	PZ-104-SS	EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	DAE	57
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	EJS	1
		EPA 8082	NPW	2
		EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	DAE	57
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	JRB	1
		EPA 365.1	ZM	1
		SM 4500-NH3 G	GWA	1
		SM 5310C	CSA	1

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50159795001	**PZ-209-SS**					
	Field pH	7.28	Std. Units		11/21/16 00:00	
	Field Temperature	14.3	deg C		11/21/16 00:00	
	Field Specific Conductance	697	umhos/cm		11/21/16 00:00	
	Field Oxidation Potential	-170	mV		11/21/16 00:00	
	Oxygen, Dissolved	0.23	mg/L		11/21/16 00:00	
	Field Turbidity	7.23	NTU		11/21/16 00:00	
	Total Well Depth	99.91	feet		11/21/16 00:00	
	Elevation Water Level	468.00	ft/msl		11/21/16 00:00	
	Depth to Water	21.68	feet		11/21/16 00:00	
EPA 6010	Barium	38.0	ug/L	10.0	12/01/16 10:33	
SM 4500-S2-D	Sulfide	2.2	mg/L	1.0	11/23/16 16:24	D3
50159795002	**PZ-209-SD**					
	Field pH	7.26	Std. Units		11/21/16 00:00	
	Field Temperature	14.5	deg C		11/21/16 00:00	
	Field Specific Conductance	805	umhos/cm		11/21/16 00:00	
	Field Oxidation Potential	-179	mV		11/21/16 00:00	
	Oxygen, Dissolved	0.20	mg/L		11/21/16 00:00	
	Field Turbidity	3.61	NTU		11/21/16 00:00	
	Total Well Depth	101.42	feet		11/21/16 00:00	
	Elevation Water Level	466.17	ft/msl		11/21/16 00:00	
	Depth to Water	23.41	feet		11/21/16 00:00	
EPA 6010	Barium	64.1	ug/L	10.0	12/01/16 10:36	
SM 4500-S2-D	Sulfide	1.2	mg/L	1.0	11/23/16 16:24	D3
50159795003	**PZ-209-SD DUP**					
EPA 6010	Barium	124	ug/L	10.0	12/01/16 10:39	
SM 4500-S2-D	Sulfide	1.2	mg/L	1.0	11/23/16 16:25	D3
50159795004	**PZ-211-SD**					
	Field pH	7.42	Std. Units		11/21/16 00:00	
	Field Temperature	14.7	deg C		11/21/16 00:00	
	Field Specific Conductance	943	umhos/cm		11/21/16 00:00	
	Field Oxidation Potential	-221	mV		11/21/16 00:00	
	Oxygen, Dissolved	0.18	mg/L		11/21/16 00:00	
	Field Turbidity	14.69	NTU		11/21/16 00:00	
	Total Well Depth	99.33	feet		11/21/16 00:00	
	Elevation Water Level	465.41	ft/msl		11/21/16 00:00	
	Depth to Water	22.05	feet		11/21/16 00:00	
EPA 6010	Barium	70.4	ug/L	10.0	12/01/16 12:58	
SM 4500-S2-D	Sulfide	2.7	mg/L	1.0	11/23/16 16:25	D3
50159795005	**PZ-211-SS**					
	Field pH	7.28	Std. Units		11/21/16 00:00	
	Field Temperature	14.8	deg C		11/21/16 00:00	
	Field Specific Conductance	681	umhos/cm		11/21/16 00:00	
	Field Oxidation Potential	-181	mV		11/21/16 00:00	
	Oxygen, Dissolved	0.20	mg/L		11/21/16 00:00	
	Field Turbidity	9.12	NTU		11/21/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50159795005	**PZ-211-SS**					
	Total Well Depth	98.15	feet		11/21/16 00:00	
	Elevation Water Level	467.44	ft/msl		11/21/16 00:00	
	Depth to Water	19.97	feet		11/21/16 00:00	
EPA 6010	Barium	81.4	ug/L	10.0	12/01/16 13:01	
50159795006	**PZ-201A-SS**					
	Field pH	7.17	Std. Units		11/21/16 00:00	
	Field Temperature	16.7	deg C		11/21/16 00:00	
	Field Specific Conductance	753	umhos/cm		11/21/16 00:00	
	Field Oxidation Potential	-17	mV		11/21/16 00:00	
	Oxygen, Dissolved	1.90	mg/L		11/21/16 00:00	
	Field Turbidity	3.40	NTU		11/21/16 00:00	
	Total Well Depth	86.12	feet		11/21/16 00:00	
	Elevation Water Level	468.12	ft/msl		11/21/16 00:00	
	Depth to Water	12.08	feet		11/21/16 00:00	
EPA 9056	Chloride	3.6	mg/L	0.25	12/03/16 19:18	
EPA 9056	Fluoride	0.34	mg/L	0.10	12/03/16 19:18	
EPA 9056	Sulfate	60.3	mg/L	2.5	12/03/16 19:32	
EPA 6010	Barium	78.2	ug/L	10.0	12/01/16 10:24	
EPA 6010	Boron	267	ug/L	100	12/01/16 10:24	
EPA 6010	Calcium	69400	ug/L	500	12/01/16 10:24	
EPA 6010	Iron	450	ug/L	50.0	12/01/16 10:24	
EPA 6010	Magnesium	47500	ug/L	500	12/01/16 10:24	
EPA 6010	Manganese	58.4	ug/L	5.0	12/01/16 10:24	
EPA 6010	Sodium	10900	ug/L	1000	12/01/16 10:24	
EPA 6010	Total Hardness by 2340B	369000	ug/L	1000	12/01/16 10:24	
SM 2540C	Total Dissolved Solids	427	mg/L	10.0	11/27/16 12:20	
EPA 353.2	Nitrogen, NO2 plus NO3	0.30	mg/L	0.10	12/09/16 14:58	
50159795007	**PZ-210-SD**					
	Field pH	7.15	Std. Units		11/22/16 00:00	
	Field Temperature	15.4	deg C		11/22/16 00:00	
	Field Specific Conductance	942	umhos/cm		11/22/16 00:00	
	Field Oxidation Potential	-131	mV		11/22/16 00:00	
	Oxygen, Dissolved	0.25	mg/L		11/22/16 00:00	
	Field Turbidity	3.11	NTU		11/22/16 00:00	
	Total Well Depth	101.65	feet		11/22/16 00:00	
	Elevation Water Level	461.28	ft/msl		11/22/16 00:00	
	Depth to Water	25.72	feet		11/22/16 00:00	
EPA 6010	Barium	475	ug/L	10.0	12/01/16 13:10	
EPA 6010	Cobalt	30.1	ug/L	5.0	12/01/16 13:10	
EPA 6010	Nickel	73.5	ug/L	10.0	12/01/16 13:10	
50159795008	**PZ-210-SS**					
	Field pH	7.18	Std. Units		11/22/16 00:00	
	Field Temperature	15.3	deg C		11/22/16 00:00	
	Field Specific Conductance	765	umhos/cm		11/22/16 00:00	
	Field Oxidation Potential	-98	mV		11/22/16 00:00	
	Oxygen, Dissolved	0.28	mg/L		11/22/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50159795008	**PZ-210-SS**					
	Field Turbidity	2.83	NTU		11/22/16 00:00	
	Total Well Depth	101.49	feet		11/22/16 00:00	
	Elevation Water Level	461.96	ft/msl		11/22/16 00:00	
	Depth to Water	24.94	feet		11/22/16 00:00	
EPA 6010	Barium	969	ug/L	10.0	12/01/16 13:13	
EPA 6010	Cobalt	5.4	ug/L	5.0	12/01/16 13:13	
EPA 6010	Nickel	10.4	ug/L	10.0	12/01/16 13:13	
50159795009	**PZ-115-SS**					
	Field pH	6.67	Std. Units		11/22/16 00:00	
	Field Temperature	15.6	deg C		11/22/16 00:00	
	Field Specific Conductance	2500	umhos/cm		11/22/16 00:00	
	Field Oxidation Potential	-55	mV		11/22/16 00:00	
	Oxygen, Dissolved	0.19	mg/L		11/22/16 00:00	
	Field Turbidity	3.00	NTU		11/22/16 00:00	
	Total Well Depth	81.11	feet		11/22/16 00:00	
	Elevation Water Level	436.32	ft/msl		11/22/16 00:00	
	Depth to Water	15.95	feet		11/22/16 00:00	
EPA 9056	Chloride	445	mg/L	25.0	12/03/16 20:02	
EPA 9056	Fluoride	0.10	mg/L	0.10	12/03/16 19:47	
EPA 9056	Sulfate	2.8	mg/L	0.25	12/03/16 19:47	
EPA 6010	Barium	48.1	ug/L	10.0	12/01/16 10:27	
EPA 6010	Boron	103	ug/L	100	12/01/16 10:27	
EPA 6010	Calcium	65600	ug/L	500	12/01/16 10:27	
EPA 6010	Iron	921	ug/L	50.0	12/01/16 10:27	
EPA 6010	Magnesium	38800	ug/L	500	12/01/16 10:27	
EPA 6010	Manganese	128	ug/L	5.0	12/01/16 10:27	
EPA 6010	Sodium	59300	ug/L	1000	12/01/16 10:27	
EPA 6010	Total Hardness by 2340B	324000	ug/L	1000	12/01/16 10:27	
EPA 6020	Arsenic	5.7	ug/L	5.0	12/07/16 01:26	
SM 2540C	Total Dissolved Solids	1390	mg/L	10.0	11/27/16 12:22	
EPA 410.4	Chemical Oxygen Demand	33.5	mg/L	10.0	12/08/16 06:33	
EPA 365.1	Phosphorus	0.24	mg/L	0.050	12/05/16 10:17	
SM 4500-NH3 G	Nitrogen, Ammonia	1.1	mg/L	0.10	12/08/16 13:54	
SM 5310C	Total Organic Carbon	10.9	mg/L	4.0	12/05/16 21:05	
50159795010	**PZ-114-AS**					
	Field pH	6.64	Std. Units		11/22/16 00:00	
	Field Temperature	15.8	deg C		11/22/16 00:00	
	Field Specific Conductance	2320	umhos/cm		11/22/16 00:00	
	Field Oxidation Potential	-112	mV		11/22/16 00:00	
	Oxygen, Dissolved	0.24	mg/L		11/22/16 00:00	
	Field Turbidity	16.86	NTU		11/22/16 00:00	
	Total Well Depth	26.32	feet		11/22/16 00:00	
	Elevation Water Level	432.78	ft/msl		11/22/16 00:00	
	Depth to Water	18.48	feet		11/22/16 00:00	
EPA 9056	Chloride	433	mg/L	25.0	12/03/16 20:46	
EPA 6010	Barium	47.9	ug/L	10.0	12/01/16 10:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50159795010	**PZ-114-AS**					
EPA 6010	Boron	103	ug/L	100	12/01/16 10:30	
EPA 6010	Calcium	66000	ug/L	500	12/01/16 10:30	
EPA 6010	Iron	893	ug/L	50.0	12/01/16 10:30	
EPA 6010	Magnesium	38700	ug/L	500	12/01/16 10:30	
EPA 6010	Manganese	128	ug/L	5.0	12/01/16 10:30	
EPA 6010	Sodium	59700	ug/L	1000	12/01/16 10:30	
EPA 6010	Total Hardness by 2340B	324000	ug/L	1000	12/01/16 10:30	
EPA 6020	Arsenic	106	ug/L	5.0	12/07/16 01:30	
EPA 8260	Chlorobenzene	44.8	ug/L	5.0	11/30/16 16:11	
EPA 8260	1,4-Dichlorobenzene	5.6	ug/L	5.0	11/30/16 16:11	
SM 2540C	Total Dissolved Solids	1310	mg/L	10.0	11/27/16 12:23	
EPA 410.4	Chemical Oxygen Demand	35.2	mg/L	10.0	12/08/16 06:33	
EPA 365.1	Phosphorus	1.7	mg/L	0.25	12/05/16 10:38	
SM 4500-NH3 G	Nitrogen, Ammonia	5.9	mg/L	0.10	12/08/16 13:59	
SM 5310C	Total Organic Carbon	7.9	mg/L	4.0	12/05/16 21:28	
50158656001	**PZ-111-SD**					
	Field pH	7.12	Std. Units		11/08/16 00:00	
	Field Temperature	17.5	deg C		11/08/16 00:00	
	Field Specific Conductance	853	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	-33	mV		11/08/16 00:00	
	Oxygen, Dissolved	0.83	mg/L		11/08/16 00:00	
	Field Turbidity	1.59	NTU		11/08/16 00:00	
	Total Well Depth	197.20	feet		11/08/16 00:00	
	Elevation Water Level	432.25	ft/msl		11/08/16 00:00	
	Depth to Water	34.21	feet		11/08/16 00:00	
EPA 9056	Chloride	10.2	mg/L	0.25	11/15/16 01:16	
EPA 9056	Fluoride	2.0	mg/L	0.10	11/15/16 01:16	
EPA 9056	Sulfate	45.3	mg/L	2.5	11/16/16 15:01	
EPA 6010	Barium	102	ug/L	10.0	11/18/16 03:16	
EPA 6010	Calcium	84900	ug/L	500	11/18/16 03:16	
EPA 6010	Iron	897	ug/L	50.0	11/18/16 03:16	
EPA 6010	Magnesium	51400	ug/L	500	11/18/16 03:16	
EPA 6010	Manganese	26.5	ug/L	5.0	11/18/16 03:16	
EPA 6010	Sodium	17100	ug/L	1000	11/18/16 03:16	
EPA 6010	Total Hardness by 2340B	424000	ug/L	1000	11/18/16 03:16	
SM 2540C	Total Dissolved Solids	469	mg/L	10.0	11/12/16 15:54	
SM 4500-NH3 G	Nitrogen, Ammonia	0.15	mg/L	0.10	11/18/16 13:45	
50158656002	**PZ-110-SS**					
	Field pH	6.70	Std. Units		11/08/16 00:00	
	Field Temperature	15.8	deg C		11/08/16 00:00	
	Field Specific Conductance	1901	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	-33	mV		11/08/16 00:00	
	Oxygen, Dissolved	0.35	mg/L		11/08/16 00:00	
	Field Turbidity	3.51	NTU		11/08/16 00:00	
	Total Well Depth	107.19	feet		11/08/16 00:00	
	Elevation Water Level	432.30	ft/msl		11/08/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656002	**PZ-110-SS**					
	Depth to Water	28.85	feet		11/08/16 00:00	
EPA 9056	Chloride	177	mg/L	25.0	11/13/16 19:03	
EPA 9056	Fluoride	0.27	mg/L	0.10	11/15/16 03:44	
EPA 9056	Sulfate	62.5	mg/L	2.5	11/13/16 18:48	
EPA 6010	Barium	242	ug/L	10.0	11/18/16 03:26	
EPA 6010	Boron	217	ug/L	100	11/18/16 03:26	
EPA 6010	Calcium	194000	ug/L	500	11/18/16 03:26	
EPA 6010	Iron	5490	ug/L	50.0	11/18/16 03:26	
EPA 6010	Magnesium	81200	ug/L	500	11/18/16 03:26	
EPA 6010	Manganese	157	ug/L	5.0	11/18/16 03:26	
EPA 6010	Nickel	11.4	ug/L	10.0	11/18/16 03:26	
EPA 6010	Sodium	72400	ug/L	1000	11/18/16 03:26	
EPA 6010	Total Hardness by 2340B	819000	ug/L	1000	11/18/16 03:26	
SM 2540C	Total Dissolved Solids	1110	mg/L	10.0	11/12/16 15:54	
EPA 410.4	Chemical Oxygen Demand	45.7	mg/L	10.0	11/21/16 17:45	
EPA 365.1	Phosphorus	0.15	mg/L	0.050	11/15/16 13:56	
SM 4500-NH3 G	Nitrogen, Ammonia	0.43	mg/L	0.10	11/18/16 13:47	
SM 5310C	Total Organic Carbon	12.1	mg/L	5.0	11/16/16 16:29	
50158656003	**PZ-109-SS**					
	Field pH	7.10	Std. Units		11/08/16 00:00	
	Field Temperature	20.3	deg C		11/08/16 00:00	
	Field Specific Conductance	822	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	57	mV		11/08/16 00:00	
	Oxygen, Dissolved	0.85	mg/L		11/08/16 00:00	
	Field Turbidity	0.00	NTU		11/08/16 00:00	
	Total Well Depth	130.98	feet		11/08/16 00:00	
	Elevation Water Level	432.07	ft/msl		11/08/16 00:00	
	Depth to Water	28.12	feet		11/08/16 00:00	
EPA 9056	Chloride	3.7	mg/L	0.25	11/16/16 14:47	
EPA 9056	Fluoride	2.4	mg/L	0.10	11/16/16 14:47	
EPA 9056	Sulfate	24.1	mg/L	0.25	11/16/16 14:47	
EPA 6010	Barium	56.7	ug/L	10.0	11/18/16 03:28	
EPA 6010	Boron	186	ug/L	100	11/18/16 03:28	
EPA 6010	Calcium	85600	ug/L	500	11/18/16 03:28	
EPA 6010	Magnesium	51600	ug/L	500	11/18/16 03:28	
EPA 6010	Sodium	9840	ug/L	1000	11/18/16 03:28	
EPA 6010	Total Hardness by 2340B	426000	ug/L	1000	11/18/16 03:28	
SM 2540C	Total Dissolved Solids	430	mg/L	10.0	11/12/16 15:54	
50158656004	**PZ-205-SS**					
	Field pH	7.01	Std. Units		11/08/16 00:00	
	Field Temperature	19.3	deg C		11/08/16 00:00	
	Field Specific Conductance	921	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	99	mV		11/08/16 00:00	
	Oxygen, Dissolved	1.53	mg/L		11/08/16 00:00	
	Field Turbidity	2.71	NTU		11/08/16 00:00	
	Total Well Depth	92.98	feet		11/08/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656004	**PZ-205-SS**					
	Elevation Water Level	435.71	ft/msl		11/08/16 00:00	
	Depth to Water	30.12	feet		11/08/16 00:00	
EPA 9056	Chloride	32.3	mg/L	2.5	11/13/16 19:31	
EPA 9056	Fluoride	0.38	mg/L	0.10	11/15/16 03:58	
EPA 9056	Sulfate	51.8	mg/L	2.5	11/13/16 19:31	
EPA 6010	Barium	135	ug/L	10.0	11/18/16 03:30	
EPA 6010	Calcium	94900	ug/L	500	11/18/16 03:30	
EPA 6010	Iron	207	ug/L	50.0	11/18/16 03:30	
EPA 6010	Magnesium	55700	ug/L	500	11/18/16 03:30	
EPA 6010	Sodium	15000	ug/L	1000	11/18/16 03:30	
EPA 6010	Total Hardness by 2340B	466000	ug/L	1000	11/18/16 03:30	
SM 2540C	Total Dissolved Solids	502	mg/L	10.0	11/12/16 15:54	
50158656005	**PZ-106-SD**					
	Field pH	6.82	Std. Units		11/08/16 00:00	
	Field Temperature	23.4	deg C		11/08/16 00:00	
	Field Specific Conductance	2110	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	-114	mV		11/08/16 00:00	
	Oxygen, Dissolved	0.17	mg/L		11/08/16 00:00	
	Field Turbidity	1.41	NTU		11/08/16 00:00	
	Total Well Depth	196.48	feet		11/08/16 00:00	
	Elevation Water Level	449.64	ft/msl		11/08/16 00:00	
	Depth to Water	13.72	feet		11/08/16 00:00	
EPA 9056	Chloride	216	mg/L	25.0	11/13/16 20:14	
EPA 9056	Fluoride	1.2	mg/L	0.10	11/15/16 04:13	
EPA 9056	Sulfate	42.3	mg/L	2.5	11/13/16 20:00	
EPA 6010	Barium	470	ug/L	10.0	11/18/16 03:32	
EPA 6010	Boron	943	ug/L	100	11/18/16 03:32	
EPA 6010	Calcium	97200	ug/L	500	11/18/16 03:32	
EPA 6010	Iron	1800	ug/L	50.0	11/18/16 03:32	
EPA 6010	Magnesium	67700	ug/L	500	11/18/16 03:32	
EPA 6010	Manganese	16.8	ug/L	5.0	11/18/16 03:32	
EPA 6010	Nickel	11.1	ug/L	10.0	11/18/16 03:32	
EPA 6010	Sodium	165000	ug/L	1000	11/18/16 03:32	
EPA 6010	Total Hardness by 2340B	522000	ug/L	1000	11/18/16 03:32	
EPA 6020	Chromium	5.2	ug/L	5.0	11/17/16 02:30	
SM 2540C	Total Dissolved Solids	1020	mg/L	10.0	11/12/16 15:54	
EPA 410.4	Chemical Oxygen Demand	117	mg/L	10.0	11/21/16 17:45	
EPA 365.1	Phosphorus	0.074	mg/L	0.050	11/15/16 13:58	
SM 4500-NH3 G	Nitrogen, Ammonia	45.0	mg/L	1.0	11/18/16 14:46	
SM 5310C	Total Organic Carbon	30.1	mg/L	20.0	11/16/16 16:29	
50158656006	**PZ-106-SS**					
	Field pH	6.95	Std. Units		11/08/16 00:00	
	Field Temperature	23.1	deg C		11/08/16 00:00	
	Field Specific Conductance	973	umhos/cm		11/08/16 00:00	
	Field Oxidation Potential	-98	mV		11/08/16 00:00	
	Oxygen, Dissolved	0.15	mg/L		11/08/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656006	**PZ-106-SS**					
	Field Turbidity	3.41	NTU		11/08/16 00:00	
	Total Well Depth	161.42	feet		11/08/16 00:00	
	Elevation Water Level	449.54	ft/msl		11/08/16 00:00	
	Depth to Water	13.17	feet		11/08/16 00:00	
EPA 9056	Chloride	39.3	mg/L	2.5	11/13/16 20:43	
EPA 9056	Fluoride	1.9	mg/L	0.10	11/15/16 04:28	
EPA 9056	Sulfate	46.4	mg/L	2.5	11/13/16 20:43	
EPA 6010	Barium	166	ug/L	10.0	11/18/16 03:39	
EPA 6010	Calcium	99100	ug/L	500	11/18/16 03:39	
EPA 6010	Iron	2520	ug/L	50.0	11/18/16 03:39	
EPA 6010	Magnesium	51400	ug/L	500	11/18/16 03:39	
EPA 6010	Manganese	15.2	ug/L	5.0	11/18/16 03:39	
EPA 6010	Sodium	23200	ug/L	1000	11/18/16 03:39	
EPA 6010	Total Hardness by 2340B	459000	ug/L	1000	11/18/16 03:39	
EPA 6020	Arsenic	6.1	ug/L	5.0	11/17/16 02:34	
SM 2540C	Total Dissolved Solids	524	mg/L	10.0	11/12/16 15:54	
EPA 410.4	Chemical Oxygen Demand	21.6	mg/L	10.0	11/21/16 17:45	
SM 4500-NH3 G	Nitrogen, Ammonia	0.25	mg/L	0.10	11/18/16 14:48	
50158656008	**PZ-105-SS**					
	Field pH	7.02	Std. Units		11/09/16 00:00	
	Field Temperature	19.5	deg C		11/09/16 00:00	
	Field Specific Conductance	1081	umhos/cm		11/09/16 00:00	
	Field Oxidation Potential	-76	mV		11/09/16 00:00	
	Oxygen, Dissolved	0.82	mg/L		11/09/16 00:00	
	Field Turbidity	1.93	NTU		11/09/16 00:00	
	Total Well Depth	144.86	feet		11/09/16 00:00	
	Elevation Water Level	460.16	ft/msl		11/09/16 00:00	
	Depth to Water	23.35	feet		11/09/16 00:00	
EPA 9056	Chloride	64.8	mg/L	2.5	11/13/16 22:23	
EPA 9056	Fluoride	0.51	mg/L	0.10	11/15/16 04:58	
EPA 9056	Sulfate	48.7	mg/L	2.5	11/13/16 22:23	
EPA 6010	Barium	178	ug/L	10.0	11/18/16 03:43	
EPA 6010	Calcium	102000	ug/L	500	11/18/16 03:43	
EPA 6010	Iron	4010	ug/L	50.0	11/18/16 03:43	
EPA 6010	Magnesium	57000	ug/L	500	11/18/16 03:43	
EPA 6010	Manganese	119	ug/L	5.0	11/18/16 03:43	
EPA 6010	Sodium	39900	ug/L	1000	11/18/16 03:43	
EPA 6010	Total Hardness by 2340B	488000	ug/L	1000	11/18/16 03:43	
SM 2540C	Total Dissolved Solids	585	mg/L	10.0	11/14/16 07:39	
EPA 410.4	Chemical Oxygen Demand	10.2	mg/L	10.0	11/21/16 17:45	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	11/16/16 16:29	
50158656010	**PZ-104-SD**					
	Field pH	6.77	Std. Units		11/09/16 00:00	
	Field Temperature	27.2	deg C		11/09/16 00:00	
	Field Specific Conductance	2110	umhos/cm		11/09/16 00:00	
	Field Oxidation Potential	-147	mV		11/09/16 00:00	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656010	**PZ-104-SD**					
	Oxygen, Dissolved	0.65	mg/L		11/09/16 00:00	
	Field Turbidity	0.91	NTU		11/09/16 00:00	
	Total Well Depth	120.68	feet		11/09/16 00:00	
	Elevation Water Level	462.70	ft/msl		11/09/16 00:00	
	Depth to Water	20.81	feet		11/09/16 00:00	
EPA 9056	Chloride	261	mg/L	25.0	11/14/16 00:17	
EPA 9056	Fluoride	0.80	mg/L	0.10	11/15/16 05:42	
EPA 9056	Sulfate	1.6	mg/L	0.25	11/15/16 05:42	
EPA 6010	Barium	647	ug/L	10.0	11/18/16 03:48	
EPA 6010	Boron	1110	ug/L	100	11/18/16 03:48	
EPA 6010	Calcium	97800	ug/L	500	11/18/16 03:48	
EPA 6010	Iron	12600	ug/L	50.0	11/18/16 03:48	
EPA 6010	Magnesium	65400	ug/L	500	11/18/16 03:48	
EPA 6010	Manganese	136	ug/L	5.0	11/18/16 03:48	
EPA 6010	Nickel	67.9	ug/L	10.0	11/18/16 03:48	
EPA 6010	Sodium	171000	ug/L	1000	11/18/16 03:48	
EPA 6010	Total Hardness by 2340B	514000	ug/L	1000	11/18/16 03:48	
EPA 6020	Arsenic	20.2	ug/L	5.0	11/17/16 04:05	
EPA 6020	Chromium	14.8	ug/L	5.0	11/17/16 04:05	
EPA 6020	Vanadium	12.6	ug/L	10.0	11/17/16 04:05	N2
EPA 8260	Benzene	592	ug/L	25.0	11/16/16 15:41	
EPA 8260	Tetrahydrofuran	2060	ug/L	500	11/16/16 15:41	E,N2
SM 2540C	Total Dissolved Solids	1050	mg/L	20.0	11/14/16 07:40	
EPA 410.4	Chemical Oxygen Demand	266	mg/L	10.0	11/21/16 19:10	
EPA 365.1	Phosphorus	0.14	mg/L	0.050	11/15/16 14:02	
SM 4500-NH3 G	Nitrogen, Ammonia	45.8	mg/L	1.0	11/18/16 14:52	
SM 5310C	Total Organic Carbon	65.0	mg/L	40.0	11/16/16 16:29	
50158656011	**PZ-104-SD Dup**					
EPA 9056	Chloride	273	mg/L	25.0	11/14/16 01:00	
EPA 9056	Fluoride	0.76	mg/L	0.10	11/15/16 06:41	
EPA 9056	Sulfate	1.5	mg/L	0.25	11/15/16 06:41	
EPA 6010	Barium	650	ug/L	10.0	11/18/16 03:50	
EPA 6010	Boron	1130	ug/L	100	11/18/16 03:50	
EPA 6010	Calcium	100000	ug/L	500	11/18/16 03:50	
EPA 6010	Iron	13000	ug/L	50.0	11/18/16 03:50	
EPA 6010	Magnesium	67000	ug/L	500	11/18/16 03:50	
EPA 6010	Manganese	140	ug/L	5.0	11/18/16 03:50	
EPA 6010	Nickel	69.0	ug/L	10.0	11/18/16 03:50	
EPA 6010	Sodium	173000	ug/L	1000	11/18/16 03:50	
EPA 6010	Total Hardness by 2340B	526000	ug/L	1000	11/18/16 03:50	
EPA 6020	Arsenic	19.7	ug/L	5.0	11/17/16 04:09	
EPA 6020	Chromium	14.4	ug/L	5.0	11/17/16 04:09	
EPA 6020	Vanadium	12.1	ug/L	10.0	11/17/16 04:09	N2
EPA 8260	Benzene	564	ug/L	50.0	11/16/16 16:47	
EPA 8260	1,4-Dichlorobenzene	6.5	ug/L	5.0	11/18/16 04:43	
EPA 8260	p-Isopropyltoluene	9.9	ug/L	5.0	11/18/16 04:43	
EPA 8260	Methyl-tert-butyl ether	5.2	ug/L	5.0	11/18/16 04:43	

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656011	**PZ-104-SD Dup**					
EPA 8260	Tetrahydrofuran	2030	ug/L	1000	11/16/16 16:47	N2
EPA 8260	Toluene	9.7	ug/L	5.0	11/18/16 04:43	
EPA 8260	Xylene (Total)	26.8	ug/L	5.0	11/18/16 04:43	
SM 2540C	Total Dissolved Solids	1060	mg/L	10.0	11/14/16 07:51	
EPA 410.4	Chemical Oxygen Demand	257	mg/L	10.0	11/21/16 19:10	
EPA 365.1	Phosphorus	0.14	mg/L	0.050	11/15/16 14:03	
SM 4500-NH3 G	Nitrogen, Ammonia	46.8	mg/L	1.0	11/18/16 14:53	
SM 5310C	Total Organic Carbon	61.8	mg/L	40.0	11/16/16 16:29	
50158656018	**PZ-100-SD**					
	Field pH	7.22	Std. Units		11/10/16 00:00	
	Field Temperature	16.0	deg C		11/10/16 00:00	
	Field Specific Conductance	628	umhos/cm		11/10/16 00:00	
	Field Oxidation Potential	14	mV		11/10/16 00:00	
	Oxygen, Dissolved	0.40	mg/L		11/10/16 00:00	
	Field Turbidity	4.16	NTU		11/10/16 00:00	
	Total Well Depth	96.42	feet		11/10/16 00:00	
	Elevation Water Level	453.17	ft/msl		11/10/16 00:00	
	Depth to Water	32.55	feet		11/10/16 00:00	
EPA 9056	Chloride	1.6	mg/L	0.25	11/20/16 20:04	
EPA 9056	Fluoride	2.2	mg/L	0.10	11/20/16 20:04	
EPA 9056	Sulfate	10	mg/L	0.25	11/20/16 20:04	
EPA 6010	Barium	323	ug/L	10.0	11/17/16 11:48	
EPA 6010	Calcium	75400	ug/L	500	11/17/16 11:48	
EPA 6010	Iron	802	ug/L	50.0	11/17/16 11:48	
EPA 6010	Magnesium	35700	ug/L	500	11/17/16 11:48	
EPA 6010	Manganese	59.8	ug/L	5.0	11/17/16 11:48	
EPA 6010	Sodium	6560	ug/L	1000	11/17/16 11:48	
EPA 6010	Total Hardness by 2340B	335000	ug/L	1000	11/17/16 11:48	
SM 2540C	Total Dissolved Solids	315	mg/L	10.0	11/16/16 13:52	
SM 4500-NH3 G	Nitrogen, Ammonia	0.46	mg/L	0.10	11/18/16 14:11	
50158656019	**PZ-100-SS**					
	Field pH	7.08	Std. Units		11/10/16 00:00	
	Field Temperature	16.4	deg C		11/10/16 00:00	
	Field Specific Conductance	821	umhos/cm		11/10/16 00:00	
	Field Oxidation Potential	64	mV		11/10/16 00:00	
	Oxygen, Dissolved	1.81	mg/L		11/10/16 00:00	
	Field Turbidity	4.51	NTU		11/10/16 00:00	
	Total Well Depth	89.12	feet		11/10/16 00:00	
	Elevation Water Level	455.98	ft/msl		11/10/16 00:00	
	Depth to Water	29.77	feet		11/10/16 00:00	
EPA 9056	Chloride	6.1	mg/L	0.25	11/19/16 21:00	
EPA 9056	Fluoride	0.65	mg/L	0.10	11/19/16 21:00	
EPA 9056	Sulfate	36.9	mg/L	2.5	11/22/16 22:35	
EPA 6010	Barium	65.6	ug/L	10.0	11/17/16 15:17	
EPA 6010	Boron	118	ug/L	100	11/17/16 15:17	
EPA 6010	Calcium	93700	ug/L	500	11/17/16 15:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656019	**PZ-100-SS**					
EPA 6010	Magnesium	51000	ug/L	500	11/17/16 15:17	
EPA 6010	Nickel	11.5	ug/L	10.0	11/17/16 15:17	
EPA 6010	Sodium	11100	ug/L	1000	11/17/16 15:17	
EPA 6010	Total Hardness by 2340B	444000	ug/L	1000	11/17/16 15:17	
SM 2540C	Total Dissolved Solids	501	mg/L	10.0	11/16/16 13:53	
EPA 353.2	Nitrogen, NO2 plus NO3	0.12	mg/L	0.10	11/21/16 13:19	
50158656020	**FB@PZ-104-KS**					
EPA 8260	Acetone	12.1	ug/L	10.0	11/18/16 02:15	
50158656021	**PZ-104-KS**					
	Field pH	7.14	Std. Units		11/10/16 00:00	
	Field Temperature	24.9	deg C		11/10/16 00:00	
	Field Specific Conductance	793	umhos/cm		11/10/16 00:00	
	Field Oxidation Potential	-87	mV		11/10/16 00:00	
	Oxygen, Dissolved	0.34	mg/L		11/10/16 00:00	
	Field Turbidity	4.59	NTU		11/10/16 00:00	
	Total Well Depth	93.09	feet		11/10/16 00:00	
	Elevation Water Level	467.23	ft/msl		11/10/16 00:00	
	Depth to Water	16.72	feet		11/10/16 00:00	
EPA 9056	Chloride	39.1	mg/L	2.5	11/22/16 23:05	
EPA 9056	Fluoride	1.7	mg/L	0.10	11/22/16 22:50	
EPA 9056	Sulfate	22.9	mg/L	2.5	11/22/16 23:05	
EPA 6010	Barium	90.0	ug/L	10.0	11/17/16 15:20	
EPA 6010	Boron	116	ug/L	100	11/17/16 15:20	
EPA 6010	Calcium	74900	ug/L	500	11/17/16 15:20	
EPA 6010	Iron	1210	ug/L	50.0	11/17/16 15:20	
EPA 6010	Magnesium	36600	ug/L	500	11/17/16 15:20	
EPA 6010	Manganese	12.9	ug/L	5.0	11/17/16 15:20	
EPA 6010	Sodium	34800	ug/L	1000	11/17/16 15:20	
EPA 6010	Total Hardness by 2340B	338000	ug/L	1000	11/17/16 15:20	
SM 2540C	Total Dissolved Solids	407	mg/L	10.0	11/16/16 13:53	
SM 4500-NH3 G	Nitrogen, Ammonia	0.22	mg/L	0.10	11/18/16 14:14	
50158656022	**PZ-104-SS**					
	Field pH	6.59	Std. Units		11/10/16 00:00	
	Field Temperature	27.3	deg C		11/10/16 00:00	
	Field Specific Conductance	797	umhos/cm		11/10/16 00:00	
	Field Oxidation Potential	-173	mV		11/10/16 00:00	
	Oxygen, Dissolved	0.12	mg/L		11/10/16 00:00	
	Field Turbidity	5.23	NTU		11/10/16 00:00	
	Total Well Depth	140.32	feet		11/10/16 00:00	
	Elevation Water Level	463.61	ft/msl		11/10/16 00:00	
	Depth to Water	19.84	feet		11/10/16 00:00	
EPA 9056	Chloride	3.8	mg/L	0.25	11/22/16 23:19	
EPA 9056	Fluoride	0.73	mg/L	0.10	11/22/16 23:19	
EPA 9056	Sulfate	13.2	mg/L	0.25	11/22/16 23:19	
EPA 6010	Barium	100	ug/L	10.0	11/17/16 15:23	
EPA 6010	Boron	137	ug/L	100	11/17/16 15:23	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50158656022	**PZ-104-SS**					
EPA 6010	Calcium	82300	ug/L	500	11/17/16 15:23	
EPA 6010	Iron	146	ug/L	50.0	11/17/16 15:23	
EPA 6010	Magnesium	48300	ug/L	500	11/17/16 15:23	
EPA 6010	Manganese	23.6	ug/L	5.0	11/17/16 15:23	
EPA 6010	Sodium	14600	ug/L	1000	11/17/16 15:23	
EPA 6010	Total Hardness by 2340B	405000	ug/L	1000	11/17/16 15:23	
EPA 8260	Benzene	279	ug/L	5.0	11/19/16 03:07	
EPA 8260	1,4-Dichlorobenzene	7.1	ug/L	5.0	11/19/16 03:07	
EPA 8260	Ethylbenzene	5.9	ug/L	5.0	11/19/16 03:07	
EPA 8260	p-Isopropyltoluene	12.3	ug/L	5.0	11/19/16 03:07	
EPA 8260	Methyl-tert-butyl ether	8.6	ug/L	5.0	11/19/16 03:07	
EPA 8260	Toluene	21.0	ug/L	5.0	11/19/16 03:07	
EPA 8260	Xylene (Total)	12.2	ug/L	5.0	11/19/16 03:07	
SM 2540C	Total Dissolved Solids	410	mg/L	10.0	11/16/16 13:53	
EPA 410.4	Chemical Oxygen Demand	26.2	mg/L	10.0	11/21/16 18:33	
SM 5310C	Total Organic Carbon	6.3	mg/L	4.0	11/17/16 22:45	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-209-SS **Lab ID: 50159795001** Collected: 11/21/16 10:45 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.28**	Std. Units		1		11/21/16 00:00		
Field Temperature	**14.3**	deg C		1		11/21/16 00:00		
Field Specific Conductance	**697**	umhos/cm		1		11/21/16 00:00		
Field Oxidation Potential	**-170**	mV		1		11/21/16 00:00		
Oxygen, Dissolved	**0.23**	mg/L		1		11/21/16 00:00	7782-44-7	
Field Turbidity	**7.23**	NTU		1		11/21/16 00:00		
Total Well Depth	**99.91**	feet		1		11/21/16 00:00		
Elevation Water Level	**468.00**	ft/msl		1		11/21/16 00:00		
Depth to Water	**21.68**	feet		1		11/21/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 10:27	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	44	%.	10-98	1	11/28/16 22:03	11/29/16 10:27	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**38.0**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:33	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:33	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:33	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:33	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:40	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 00:40	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 00:40	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:40	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:40	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:40	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:40	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 00:40	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:12		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:12	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	56	%.	38-124	1	11/28/16 09:20	11/29/16 20:12	4165-60-0	
2-Fluorobiphenyl (S)	44	%.	33-114	1	11/28/16 09:20	11/29/16 20:12	321-60-8	
p-Terphenyl-d14 (S)	76	%.	10-113	1	11/28/16 09:20	11/29/16 20:12	1718-51-0	
Phenol-d5 (S)	18	%.	10-58	1	11/28/16 09:20	11/29/16 20:12	4165-62-2	
2-Fluorophenol (S)	27	%.	11-79	1	11/28/16 09:20	11/29/16 20:12	367-12-4	
2,4,6-Tribromophenol (S)	62	%.	29-158	1	11/28/16 09:20	11/29/16 20:12	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 18:39	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 18:39	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 18:39	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-209-SS** **Lab ID: 50159795001** Collected: 11/21/16 10:45 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 18:39	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 18:39	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 18:39	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 18:39	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 18:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 18:39	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 18:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 18:39	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 18:39	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 18:39	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 18:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 18:39	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		11/30/16 18:39	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/30/16 18:39	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/30/16 18:39	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	**2.2**	mg/L	1.0	5		11/23/16 16:24		D3

Sample: **PZ-209-SD** **Lab ID: 50159795002** Collected: 11/21/16 11:54 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.26**	Std. Units		1		11/21/16 00:00		
Field Temperature	**14.5**	deg C		1		11/21/16 00:00		
Field Specific Conductance	**805**	umhos/cm		1		11/21/16 00:00		
Field Oxidation Potential	**-179**	mV		1		11/21/16 00:00		
Oxygen, Dissolved	**0.20**	mg/L		1		11/21/16 00:00	7782-44-7	
Field Turbidity	**3.61**	NTU		1		11/21/16 00:00		
Total Well Depth	**101.42**	feet		1		11/21/16 00:00		
Elevation Water Level	**466.17**	ft/msl		1		11/21/16 00:00		
Depth to Water	**23.41**	feet		1		11/21/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 10:35	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	35	%.	10-98	1	11/28/16 22:03	11/29/16 10:35	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**64.1**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:36	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:36	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:36	7440-02-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-209-SD **Lab ID: 50159795002** Collected: 11/21/16 11:54 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:36	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:45	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 00:45	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 00:45	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:45	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:45	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:45	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:45	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 00:45	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:30		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:30	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	52	%.	38-124	1	11/28/16 09:20	11/29/16 20:30	4165-60-0	
2-Fluorobiphenyl (S)	41	%.	33-114	1	11/28/16 09:20	11/29/16 20:30	321-60-8	
p-Terphenyl-d14 (S)	71	%.	10-113	1	11/28/16 09:20	11/29/16 20:30	1718-51-0	
Phenol-d5 (S)	16	%.	10-58	1	11/28/16 09:20	11/29/16 20:30	4165-62-2	
2-Fluorophenol (S)	24	%.	11-79	1	11/28/16 09:20	11/29/16 20:30	367-12-4	
2,4,6-Tribromophenol (S)	53	%.	29-158	1	11/28/16 09:20	11/29/16 20:30	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 19:45	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 19:45	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 19:45	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 19:45	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 19:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 19:45	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 19:45	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 19:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 19:45	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 19:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 19:45	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 19:45	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 19:45	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 19:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 19:45	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 19:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		11/30/16 19:45	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/30/16 19:45	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 19:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-209-SD **Lab ID: 50159795002** Collected: 11/21/16 11:54 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	**1.2**	mg/L	1.0	2		11/23/16 16:24		D3

Sample: PZ-209-SD DUP **Lab ID: 50159795003** Collected: 11/21/16 11:54 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 10:43	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	37	%.	10-98	1	11/28/16 22:03	11/29/16 10:43	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**124**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:39	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:39	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:39	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:39	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:49	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 00:49	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 00:49	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:49	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:49	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:49	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:49	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 00:49	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:47		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 20:47	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	54	%.	38-124	1	11/28/16 09:20	11/29/16 20:47	4165-60-0	
2-Fluorobiphenyl (S)	43	%.	33-114	1	11/28/16 09:20	11/29/16 20:47	321-60-8	
Terphenyl-d14 (S)	73	%.	10-113	1	11/28/16 09:20	11/29/16 20:47	1718-51-0	
Phenol-d5 (S)	16	%.	10-58	1	11/28/16 09:20	11/29/16 20:47	4165-62-2	
2-Fluorophenol (S)	25	%.	11-79	1	11/28/16 09:20	11/29/16 20:47	367-12-4	
2,4,6-Tribromophenol (S)	55	%.	29-158	1	11/28/16 09:20	11/29/16 20:47	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 20:18	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 20:18	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 20:18	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 20:18	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 20:18	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 20:18	107-06-2	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-209-SD DUP **Lab ID: 50159795003** Collected: 11/21/16 11:54 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 20:18	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 20:18	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 20:18	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 20:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 20:18	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 20:18	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 20:18	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 20:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 20:18	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 20:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		11/30/16 20:18	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/30/16 20:18	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/30/16 20:18	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	**1.2**	mg/L	1.0	2		11/23/16 16:25		D3

Sample: PZ-211-SD **Lab ID: 50159795004** Collected: 11/21/16 14:23 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.42**	Std. Units		1		11/21/16 00:00		
Field Temperature	**14.7**	deg C		1		11/21/16 00:00		
Field Specific Conductance	**943**	umhos/cm		1		11/21/16 00:00		
Field Oxidation Potential	**-221**	mV		1		11/21/16 00:00		
Oxygen, Dissolved	**0.18**	mg/L		1		11/21/16 00:00	7782-44-7	
Field Turbidity	**14.69**	NTU		1		11/21/16 00:00		
Total Well Depth	**99.33**	feet		1		11/21/16 00:00		
Elevation Water Level	**465.41**	ft/msl		1		11/21/16 00:00		
Depth to Water	**22.05**	feet		1		11/21/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 10:51	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	43	%.	10-98	1	11/28/16 22:03	11/29/16 10:51	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**70.4**	ug/L	10.0	1	11/30/16 07:13	12/01/16 12:58	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 12:58	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 12:58	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 12:58	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-211-SD** **Lab ID: 50159795004** Collected: 11/21/16 14:23 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:54	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 00:54	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 00:54	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:54	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:54	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:54	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:54	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 00:54	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:04		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:04	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%.	38-124	1	11/28/16 09:20	11/29/16 21:04	4165-60-0	
2-Fluorobiphenyl (S)	45	%.	33-114	1	11/28/16 09:20	11/29/16 21:04	321-60-8	
p-Terphenyl-d14 (S)	68	%.	10-113	1	11/28/16 09:20	11/29/16 21:04	1718-51-0	
Phenol-d5 (S)	18	%.	10-58	1	11/28/16 09:20	11/29/16 21:04	4165-62-2	
2-Fluorophenol (S)	26	%.	11-79	1	11/28/16 09:20	11/29/16 21:04	367-12-4	
2,4,6-Tribromophenol (S)	51	%.	29-158	1	11/28/16 09:20	11/29/16 21:04	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 20:51	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 20:51	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 20:51	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 20:51	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 20:51	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 20:51	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 20:51	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 20:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 20:51	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 20:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 20:51	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 20:51	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 20:51	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 20:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 20:51	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 20:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/30/16 20:51	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/30/16 20:51	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/30/16 20:51	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	**2.7**	mg/L	1.0	5		11/23/16 16:25		D3

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-211-SS **Lab ID: 50159795005** Collected: 11/21/16 15:11 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.28**	Std. Units		1		11/21/16 00:00		
Field Temperature	**14.8**	deg C		1		11/21/16 00:00		
Field Specific Conductance	**681**	umhos/cm		1		11/21/16 00:00		
Field Oxidation Potential	**-181**	mV		1		11/21/16 00:00		
Oxygen, Dissolved	**0.20**	mg/L		1		11/21/16 00:00	7782-44-7	
Field Turbidity	**9.12**	NTU		1		11/21/16 00:00		
Total Well Depth	**98.15**	feet		1		11/21/16 00:00		
Elevation Water Level	**467.44**	ft/msl		1		11/21/16 00:00		
Depth to Water	**19.97**	feet		1		11/21/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 10:59	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	36	%.	10-98	1	11/28/16 22:03	11/29/16 10:59	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**81.4**	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:01	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 13:01	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:01	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 13:01	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:58	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 00:58	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 00:58	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:58	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:58	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:58	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 00:58	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 00:58	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:21		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:21	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	50	%.	38-124	1	11/28/16 09:20	11/29/16 21:21	4165-60-0	
2-Fluorobiphenyl (S)	40	%.	33-114	1	11/28/16 09:20	11/29/16 21:21	321-60-8	
p-Terphenyl-d14 (S)	78	%.	10-113	1	11/28/16 09:20	11/29/16 21:21	1718-51-0	
Phenol-d5 (S)	17	%.	10-58	1	11/28/16 09:20	11/29/16 21:21	4165-62-2	
2-Fluorophenol (S)	24	%.	11-79	1	11/28/16 09:20	11/29/16 21:21	367-12-4	
2,4,6-Tribromophenol (S)	54	%.	29-158	1	11/28/16 09:20	11/29/16 21:21	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 13:26	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 13:26	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 13:26	78-93-3	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-211-SS **Lab ID: 50159795005** Collected: 11/21/16 15:11 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 13:26	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 13:26	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 13:26	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 13:26	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 13:26	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 13:26	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 13:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 13:26	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 13:26	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 13:26	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 13:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 13:26	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 13:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		11/30/16 13:26	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/30/16 13:26	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 13:26	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/23/16 16:26		

Sample: PZ-201A-SS **Lab ID: 50159795006** Collected: 11/21/16 16:01 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.17**	Std. Units		1		11/21/16 00:00		
Field Temperature	**16.7**	deg C		1		11/21/16 00:00		
Field Specific Conductance	**753**	umhos/cm		1		11/21/16 00:00		
Field Oxidation Potential	**-17**	mV		1		11/21/16 00:00		
Oxygen, Dissolved	**1.90**	mg/L		1		11/21/16 00:00	7782-44-7	
Field Turbidity	**3.40**	NTU		1		11/21/16 00:00		
Total Well Depth	**86.12**	feet		1		11/21/16 00:00		
Elevation Water Level	**468.12**	ft/msl		1		11/21/16 00:00		
Depth to Water	**12.08**	feet		1		11/21/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.6**	mg/L	0.25	1		12/03/16 19:18	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	1		12/03/16 19:18	16984-48-8	
Sulfate	**60.3**	mg/L	2.5	10		12/03/16 19:32	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**78.2**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:24	7440-39-3	
Boron	**267**	ug/L	100	1	11/30/16 07:13	12/01/16 10:24	7440-42-8	
Calcium	**69400**	ug/L	500	1	11/30/16 07:13	12/01/16 10:24	7440-70-2	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-201A-SS **Lab ID: 50159795006** Collected: 11/21/16 16:01 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:24	7440-48-4	
Iron	**450**	ug/L	50.0	1	11/30/16 07:13	12/01/16 10:24	7439-89-6	
Magnesium	**47500**	ug/L	500	1	11/30/16 07:13	12/01/16 10:24	7439-95-4	
Manganese	**58.4**	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:24	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:24	7440-02-0	
Sodium	**10900**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:24	7440-23-5	
Total Hardness by 2340B	**369000**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:24		
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:24	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7440-36-0	
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:12	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 01:12	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7782-49-2	
Silver	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:12	7440-22-4	
Thallium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:12	7440-28-0	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 01:12	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/06/16 16:44	12/06/16 21:43	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 21:40	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/30/16 21:40	107-13-1	
Benzene	ND	ug/L	5.0	1		11/30/16 21:40	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/30/16 21:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/30/16 21:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/30/16 21:40	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/30/16 21:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 21:40	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/30/16 21:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/16 21:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/30/16 21:40	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/30/16 21:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/30/16 21:40	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/30/16 21:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/30/16 21:40	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/30/16 21:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/30/16 21:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/30/16 21:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 21:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 21:40	106-46-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-201A-SS **Lab ID: 50159795006** Collected: 11/21/16 16:01 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/30/16 21:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/30/16 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 21:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/16 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 21:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/30/16 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 21:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/30/16 21:40	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/30/16 21:40	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/16 21:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 21:40	108-10-1	
Styrene	ND	ug/L	5.0	1		11/30/16 21:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 21:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/16 21:40	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/16 21:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/16 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/30/16 21:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/30/16 21:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/30/16 21:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/30/16 21:40	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/30/16 21:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/30/16 21:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 21:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		11/30/16 21:40	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/30/16 21:40	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 21:40	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**427**	mg/L	10.0	1		11/27/16 12:20		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	12/06/16 09:56	12/06/16 14:03		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.30**	mg/L	0.10	1		12/09/16 14:58		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	12/02/16 09:53	12/05/16 10:16	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		12/08/16 13:53	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-201A-SS **Lab ID: 50159795006** Collected: 11/21/16 16:01 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		12/02/16 04:31	7440-44-0	

Sample: PZ-210-SD **Lab ID: 50159795007** Collected: 11/22/16 09:46 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.15**	Std. Units		1		11/22/16 00:00		
Field Temperature	**15.4**	deg C		1		11/22/16 00:00		
Field Specific Conductance	**942**	umhos/cm		1		11/22/16 00:00		
Field Oxidation Potential	**-131**	mV		1		11/22/16 00:00		
Oxygen, Dissolved	**0.25**	mg/L		1		11/22/16 00:00	7782-44-7	
Field Turbidity	**3.11**	NTU		1		11/22/16 00:00		
Total Well Depth	**101.65**	feet		1		11/22/16 00:00		
Elevation Water Level	**461.28**	ft/msl		1		11/22/16 00:00		
Depth to Water	**25.72**	feet		1		11/22/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/28/16 22:03	11/29/16 11:07	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	48	%.	10-98	1	11/28/16 22:03	11/29/16 11:07	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**475**	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:10	7440-39-3	
Cobalt	**30.1**	ug/L	5.0	1	11/30/16 07:13	12/01/16 13:10	7440-48-4	
Nickel	**73.5**	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:10	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 13:10	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:17	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:17	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 01:17	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:17	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:17	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:17	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:17	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 01:17	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:38		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:38	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%.	38-124	1	11/28/16 09:20	11/29/16 21:38	4165-60-0	
2-Fluorobiphenyl (S)	42	%.	33-114	1	11/28/16 09:20	11/29/16 21:38	321-60-8	
p-Terphenyl-d14 (S)	67	%.	10-113	1	11/28/16 09:20	11/29/16 21:38	1718-51-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-210-SD** **Lab ID: 50159795007** Collected: 11/22/16 09:46 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Surrogates								
Phenol-d5 (S)	17	%.	10-58	1	11/28/16 09:20	11/29/16 21:38	4165-62-2	
2-Fluorophenol (S)	24	%.	11-79	1	11/28/16 09:20	11/29/16 21:38	367-12-4	
2,4,6-Tribromophenol (S)	55	%.	29-158	1	11/28/16 09:20	11/29/16 21:38	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 13:59	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 13:59	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 13:59	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 13:59	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 13:59	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 13:59	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 13:59	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 13:59	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 13:59	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 13:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 13:59	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 13:59	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 13:59	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 13:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 13:59	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 13:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/30/16 13:59	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/30/16 13:59	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 13:59	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/23/16 16:26		

Sample: **PZ-210-SS** **Lab ID: 50159795008** Collected: 11/22/16 10:39 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.18**	Std. Units		1		11/22/16 00:00		
Field Temperature	**15.3**	deg C		1		11/22/16 00:00		
Field Specific Conductance	**765**	umhos/cm		1		11/22/16 00:00		
Field Oxidation Potential	**-98**	mV		1		11/22/16 00:00		
Oxygen, Dissolved	**0.28**	mg/L		1		11/22/16 00:00	7782-44-7	
Field Turbidity	**2.83**	NTU		1		11/22/16 00:00		
Total Well Depth	**101.49**	feet		1		11/22/16 00:00		
Elevation Water Level	**461.96**	ft/msl		1		11/22/16 00:00		
Depth to Water	**24.94**	feet		1		11/22/16 00:00		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-210-SS **Lab ID: 50159795008** Collected: 11/22/16 10:39 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.22	1	11/28/16 22:03	11/29/16 11:15	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	50	%.	10-98	1	11/28/16 22:03	11/29/16 11:15	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**969**	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:13	7440-39-3	
Cobalt	**5.4**	ug/L	5.0	1	11/30/16 07:13	12/01/16 13:13	7440-48-4	
Nickel	**10.4**	ug/L	10.0	1	11/30/16 07:13	12/01/16 13:13	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 13:13	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:21	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:21	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 01:21	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:21	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:21	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:21	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:21	7782-49-2	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 01:21	7440-62-2	N2
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:55		
Phenol	ND	ug/L	10.0	1	11/28/16 09:20	11/29/16 21:55	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	48	%.	38-124	1	11/28/16 09:20	11/29/16 21:55	4165-60-0	
2-Fluorobiphenyl (S)	39	%.	33-114	1	11/28/16 09:20	11/29/16 21:55	321-60-8	
p-Terphenyl-d14 (S)	64	%.	10-113	1	11/28/16 09:20	11/29/16 21:55	1718-51-0	
Phenol-d5 (S)	15	%.	10-58	1	11/28/16 09:20	11/29/16 21:55	4165-62-2	
2-Fluorophenol (S)	21	%.	11-79	1	11/28/16 09:20	11/29/16 21:55	367-12-4	
2,4,6-Tribromophenol (S)	50	%.	29-158	1	11/28/16 09:20	11/29/16 21:55	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 15:05	67-64-1	
Benzene	ND	ug/L	5.0	1		11/30/16 15:05	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 15:05	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/30/16 15:05	109-69-3	N2
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 15:05	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 15:05	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 15:05	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/30/16 15:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/30/16 15:05	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 15:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/30/16 15:05	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/30/16 15:05	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/30/16 15:05	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 15:05	95-63-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-210-SS **Lab ID: 50159795008** Collected: 11/22/16 10:39 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/30/16 15:05	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 15:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/30/16 15:05	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/30/16 15:05	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 15:05	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/23/16 16:26		

Sample: PZ-115-SS **Lab ID: 50159795009** Collected: 11/22/16 11:37 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.67**	Std. Units		1		11/22/16 00:00		
Field Temperature	**15.6**	deg C		1		11/22/16 00:00		
Field Specific Conductance	**2500**	umhos/cm		1		11/22/16 00:00		
Field Oxidation Potential	**-55**	mV		1		11/22/16 00:00		
Oxygen, Dissolved	**0.19**	mg/L		1		11/22/16 00:00	7782-44-7	
Field Turbidity	**3.00**	NTU		1		11/22/16 00:00		
Total Well Depth	**81.11**	feet		1		11/22/16 00:00		
Elevation Water Level	**436.32**	ft/msl		1		11/22/16 00:00		
Depth to Water	**15.95**	feet		1		11/22/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**445**	mg/L	25.0	100		12/03/16 20:02	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	1		12/03/16 19:47	16984-48-8	
Sulfate	**2.8**	mg/L	0.25	1		12/03/16 19:47	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**48.1**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:27	7440-39-3	
Boron	**103**	ug/L	100	1	11/30/16 07:13	12/01/16 10:27	7440-42-8	
Calcium	**65600**	ug/L	500	1	11/30/16 07:13	12/01/16 10:27	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:27	7440-48-4	
Iron	**921**	ug/L	50.0	1	11/30/16 07:13	12/01/16 10:27	7439-89-6	
Magnesium	**38800**	ug/L	500	1	11/30/16 07:13	12/01/16 10:27	7439-95-4	
Manganese	**128**	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:27	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:27	7440-02-0	
Sodium	**59300**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:27	7440-23-5	
Total Hardness by 2340B	**324000**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:27		
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:27	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7440-36-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-115-SS **Lab ID: 50159795009** Collected: 11/22/16 11:37 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	**5.7**	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:26	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 01:26	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7782-49-2	
Silver	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:26	7440-22-4	
Thallium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:26	7440-28-0	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 01:26	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/06/16 16:44	12/06/16 21:45	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 15:38	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/30/16 15:38	107-13-1	
Benzene	ND	ug/L	5.0	1		11/30/16 15:38	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/30/16 15:38	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/30/16 15:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/30/16 15:38	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/30/16 15:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 15:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/30/16 15:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/16 15:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/30/16 15:38	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/30/16 15:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/30/16 15:38	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/30/16 15:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/30/16 15:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/30/16 15:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/30/16 15:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/30/16 15:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 15:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 15:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/30/16 15:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/30/16 15:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 15:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/16 15:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 15:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 15:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/30/16 15:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 15:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 15:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 15:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/30/16 15:38	591-78-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-115-SS** **Lab ID: 50159795009** Collected: 11/22/16 11:37 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Iodomethane	ND	ug/L	5.0	1		11/30/16 15:38	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/16 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 15:38	108-10-1	
Styrene	ND	ug/L	5.0	1		11/30/16 15:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 15:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 15:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/16 15:38	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/16 15:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/16 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/30/16 15:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/30/16 15:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/30/16 15:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/30/16 15:38	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/30/16 15:38	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/30/16 15:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 15:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		11/30/16 15:38	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/30/16 15:38	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/30/16 15:38	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1390**	mg/L	10.0	1		11/27/16 12:22		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**33.5**	mg/L	10.0	1	12/07/16 14:27	12/08/16 06:33		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/09/16 15:01		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.24**	mg/L	0.050	1	12/02/16 09:53	12/05/16 10:17	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**1.1**	mg/L	0.10	1		12/08/16 13:54	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**10.9**	mg/L	4.0	4		12/05/16 21:05	7440-44-0	

Sample: **PZ-114-AS** **Lab ID: 50159795010** Collected: 11/22/16 12:49 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.64**	Std. Units		1		11/22/16 00:00		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-114-AS **Lab ID: 50159795010** Collected: 11/22/16 12:49 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Temperature	**15.8**	deg C		1		11/22/16 00:00		
Field Specific Conductance	**2320**	umhos/cm		1		11/22/16 00:00		
Field Oxidation Potential	**-112**	mV		1		11/22/16 00:00		
Oxygen, Dissolved	**0.24**	mg/L		1		11/22/16 00:00	7782-44-7	
Field Turbidity	**16.86**	NTU		1		11/22/16 00:00		
Total Well Depth	**26.32**	feet		1		11/22/16 00:00		
Elevation Water Level	**432.78**	ft/msl		1		11/22/16 00:00		
Depth to Water	**18.48**	feet		1		11/22/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**433**	mg/L	25.0	100		12/03/16 20:46	16887-00-6	
Fluoride	ND	mg/L	0.10	1		12/03/16 20:17	16984-48-8	
Sulfate	ND	mg/L	0.25	1		12/03/16 20:17	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**47.9**	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:30	7440-39-3	
Boron	**103**	ug/L	100	1	11/30/16 07:13	12/01/16 10:30	7440-42-8	
Calcium	**66000**	ug/L	500	1	11/30/16 07:13	12/01/16 10:30	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:30	7440-48-4	
Iron	**893**	ug/L	50.0	1	11/30/16 07:13	12/01/16 10:30	7439-89-6	
Magnesium	**38700**	ug/L	500	1	11/30/16 07:13	12/01/16 10:30	7439-95-4	
Manganese	**128**	ug/L	5.0	1	11/30/16 07:13	12/01/16 10:30	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/30/16 07:13	12/01/16 10:30	7440-02-0	
Sodium	**59700**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:30	7440-23-5	
Total Hardness by 2340B	**324000**	ug/L	1000	1	11/30/16 07:13	12/01/16 10:30		
Zinc	ND	ug/L	20.0	1	11/30/16 07:13	12/01/16 10:30	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7440-36-0	
Arsenic	**106**	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7440-38-2	
Beryllium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:30	7440-41-7	
Cadmium	ND	ug/L	0.20	1	12/05/16 14:40	12/07/16 01:30	7440-43-9	
Chromium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7440-47-3	
Copper	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7440-50-8	
Lead	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7439-92-1	
Selenium	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7782-49-2	
Silver	ND	ug/L	5.0	1	12/05/16 14:40	12/07/16 01:30	7440-22-4	
Thallium	ND	ug/L	2.0	1	12/05/16 14:40	12/07/16 01:30	7440-28-0	
Vanadium	ND	ug/L	10.0	1	12/05/16 14:40	12/07/16 01:30	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/06/16 16:44	12/06/16 21:47	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 16:11	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/30/16 16:11	107-13-1	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-114-AS** **Lab ID: 50159795010** Collected: 11/22/16 12:49 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		11/30/16 16:11	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/30/16 16:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/30/16 16:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/30/16 16:11	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/30/16 16:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 16:11	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/30/16 16:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/16 16:11	56-23-5	
Chlorobenzene	**44.8**	ug/L	5.0	1		11/30/16 16:11	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/30/16 16:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/30/16 16:11	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/30/16 16:11	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/30/16 16:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/30/16 16:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/30/16 16:11	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/30/16 16:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 16:11	95-50-1	
1,4-Dichlorobenzene	**5.6**	ug/L	5.0	1		11/30/16 16:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/30/16 16:11	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/30/16 16:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 16:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/30/16 16:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 16:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 16:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 16:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/30/16 16:11	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/30/16 16:11	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/16 16:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 16:11	108-10-1	
Styrene	ND	ug/L	5.0	1		11/30/16 16:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 16:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 16:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/16 16:11	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/16 16:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/16 16:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/30/16 16:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/30/16 16:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/30/16 16:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/30/16 16:11	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/30/16 16:11	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/30/16 16:11	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 16:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		11/30/16 16:11	1868-53-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-114-AS **Lab ID: 50159795010** Collected: 11/22/16 12:49 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/30/16 16:11	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/30/16 16:11	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1310**	mg/L	10.0	1		11/27/16 12:23		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**35.2**	mg/L	10.0	1	12/07/16 14:27	12/08/16 06:33		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		12/09/16 15:02		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**1.7**	mg/L	0.25	5	12/02/16 09:53	12/05/16 10:38	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**5.9**	mg/L	0.10	1		12/08/16 13:59	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**7.9**	mg/L	4.0	4		12/05/16 21:28	7440-44-0	

Sample: TRIP BLANK **Lab ID: 50159795011** Collected: 11/22/16 08:00 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/30/16 16:44	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/30/16 16:44	107-13-1	
Benzene	ND	ug/L	5.0	1		11/30/16 16:44	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/30/16 16:44	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/30/16 16:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/30/16 16:44	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/30/16 16:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/30/16 16:44	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/30/16 16:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/30/16 16:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/30/16 16:44	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/30/16 16:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/30/16 16:44	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/30/16 16:44	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/30/16 16:44	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/30/16 16:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/30/16 16:44	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/30/16 16:44	74-95-3	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **TRIP BLANK** **Lab ID: 50159795011** Collected: 11/22/16 08:00 Received: 11/23/16 09:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 16:44	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/30/16 16:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/30/16 16:44	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/30/16 16:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/30/16 16:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/30/16 16:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/30/16 16:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 16:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/30/16 16:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/30/16 16:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/30/16 16:44	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/30/16 16:44	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/30/16 16:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/30/16 16:44	108-10-1	
Styrene	ND	ug/L	5.0	1		11/30/16 16:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 16:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/30/16 16:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/30/16 16:44	127-18-4	
Toluene	ND	ug/L	5.0	1		11/30/16 16:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/30/16 16:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/30/16 16:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/30/16 16:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/30/16 16:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/30/16 16:44	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/30/16 16:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/30/16 16:44	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/30/16 16:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/30/16 16:44	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/30/16 16:44	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/30/16 16:44	2037-26-5	

Sample: **PZ-111-SD** **Lab ID: 50158656001** Collected: 11/08/16 09:07 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.12**	Std. Units		1		11/08/16 00:00		
Field Temperature	**17.5**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**853**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**-33**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**0.83**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**1.59**	NTU		1		11/08/16 00:00		
Total Well Depth	**197.20**	feet		1		11/08/16 00:00		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-111-SD **Lab ID: 50158656001** Collected: 11/08/16 09:07 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Elevation Water Level	**432.25**	ft/msl		1		11/08/16 00:00		
Depth to Water	**34.21**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**10.2**	mg/L	0.25	1		11/15/16 01:16	16887-00-6	
Fluoride	**2.0**	mg/L	0.10	1		11/15/16 01:16	16984-48-8	
Sulfate	**45.3**	mg/L	2.5	10		11/16/16 15:01	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**102**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:16	7440-39-3	
Boron	ND	ug/L	100	1	11/11/16 11:27	11/18/16 03:16	7440-42-8	
Calcium	**84900**	ug/L	500	1	11/11/16 11:27	11/18/16 03:16	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:16	7440-48-4	
Iron	**897**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:16	7439-89-6	
Magnesium	**51400**	ug/L	500	1	11/11/16 11:27	11/18/16 03:16	7439-95-4	
Manganese	**26.5**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:16	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:16	7440-02-0	
Sodium	**17100**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:16	7440-23-5	
Total Hardness by 2340B	**424000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:16		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:16	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:16	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:16	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:16	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:16	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:16	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:27	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 08:00	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 08:00	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 08:00	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 08:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 08:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 08:00	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 08:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 08:00	78-93-3	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-111-SD **Lab ID: 50158656001** Collected: 11/08/16 09:07 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 08:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 08:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 08:00	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 08:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 08:00	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 08:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 08:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 08:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 08:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 08:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 08:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 08:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 08:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 08:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 08:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 08:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 08:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 08:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 08:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 08:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 08:00	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 08:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 08:00	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 08:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 08:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 08:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 08:00	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 08:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 08:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 08:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 08:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 08:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 08:00	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 08:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 08:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 08:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		11/16/16 08:00	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/16/16 08:00	460-00-4	
Toluene-d8 (S)	105	%.	86-110	1		11/16/16 08:00	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**469**	mg/L	10.0	1		11/12/16 15:54		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-111-SD **Lab ID: 50158656001** Collected: 11/08/16 09:07 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:37		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:56	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.15**	mg/L	0.10	1		11/18/16 13:45	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/16/16 16:29	7440-44-0	

Sample: PZ-110-SS **Lab ID: 50158656002** Collected: 11/08/16 10:16 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.70**	Std. Units		1		11/08/16 00:00		
Field Temperature	**15.8**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**1901**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**-33**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**0.35**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**3.51**	NTU		1		11/08/16 00:00		
Total Well Depth	**107.19**	feet		1		11/08/16 00:00		
Elevation Water Level	**432.30**	ft/msl		1		11/08/16 00:00		
Depth to Water	**28.85**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**177**	mg/L	25.0	100		11/13/16 19:03	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		11/15/16 03:44	16984-48-8	
Sulfate	**62.5**	mg/L	2.5	10		11/13/16 18:48	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**242**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:26	7440-39-3	
Boron	**217**	ug/L	100	1	11/11/16 11:27	11/18/16 03:26	7440-42-8	
Calcium	**194000**	ug/L	500	1	11/11/16 11:27	11/18/16 03:26	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:26	7440-48-4	
Iron	**5490**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:26	7439-89-6	
Magnesium	**81200**	ug/L	500	1	11/11/16 11:27	11/18/16 03:26	7439-95-4	
Manganese	**157**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:26	7439-96-5	
Nickel	**11.4**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:26	7440-02-0	
Sodium	**72400**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:26	7440-23-5	
Total Hardness by 2340B	**819000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:26		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-110-SS | Lab ID: 50158656002 | Collected: 11/08/16 10:16 | Received: 11/10/16 08:15 | Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:26	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:20	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:20	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:20	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:20	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:20	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:29	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 08:33	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 08:33	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 08:33	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 08:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 08:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 08:33	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 08:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 08:33	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 08:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 08:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 08:33	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 08:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 08:33	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 08:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 08:33	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 08:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 08:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 08:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 08:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 08:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 08:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 08:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 08:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 08:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 08:33	78-87-5	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-110-SS **Lab ID: 50158656002** Collected: 11/08/16 10:16 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 08:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 08:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 08:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 08:33	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 08:33	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 08:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 08:33	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 08:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 08:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 08:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 08:33	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 08:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 08:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 08:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 08:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 08:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 08:33	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 08:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 08:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 08:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		11/16/16 08:33	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	79-116	1		11/16/16 08:33	460-00-4	
Toluene-d8 (S)	107	%.	86-110	1		11/16/16 08:33	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1110**	mg/L	10.0	1		11/12/16 15:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**45.7**	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:38		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.15**	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:56	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.43**	mg/L	0.10	1		11/18/16 13:47	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**12.1**	mg/L	5.0	5		11/16/16 16:29	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-109-SS **Lab ID: 50158656003** Collected: 11/08/16 11:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.10**	Std. Units		1		11/08/16 00:00		
Field Temperature	**20.3**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**822**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**57**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**0.85**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**0.00**	NTU		1		11/08/16 00:00		
Total Well Depth	**130.98**	feet		1		11/08/16 00:00		
Elevation Water Level	**432.07**	ft/msl		1		11/08/16 00:00		
Depth to Water	**28.12**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.7**	mg/L	0.25	1		11/16/16 14:47	16887-00-6	
Fluoride	**2.4**	mg/L	0.10	1		11/16/16 14:47	16984-48-8	
Sulfate	**24.1**	mg/L	0.25	1		11/16/16 14:47	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**56.7**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:28	7440-39-3	
Boron	**186**	ug/L	100	1	11/11/16 11:27	11/18/16 03:28	7440-42-8	
Calcium	**85600**	ug/L	500	1	11/11/16 11:27	11/18/16 03:28	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:28	7440-48-4	
Iron	ND	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:28	7439-89-6	
Magnesium	**51600**	ug/L	500	1	11/11/16 11:27	11/18/16 03:28	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:28	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:28	7440-02-0	
Sodium	**9840**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:28	7440-23-5	
Total Hardness by 2340B	**426000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:28		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:28	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 01:49	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 01:49	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:49	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 01:49	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 01:49	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:40	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 09:06	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-109-SS **Lab ID: 50158656003** Collected: 11/08/16 11:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		11/16/16 09:06	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 09:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 09:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 09:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 09:06	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 09:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 09:06	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 09:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 09:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 09:06	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 09:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 09:06	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 09:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 09:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 09:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 09:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 09:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 09:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 09:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 09:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 09:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 09:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 09:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 09:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 09:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 09:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 09:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 09:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 09:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 09:06	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 09:06	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 09:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 09:06	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 09:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 09:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 09:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 09:06	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 09:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 09:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 09:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 09:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 09:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 09:06	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 09:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 09:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 09:06	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-109-SS **Lab ID: 50158656003** Collected: 11/08/16 11:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	103	%.	84-118	1		11/16/16 09:06	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	79-116	1		11/16/16 09:06	460-00-4	
Toluene-d8 (S)	106	%.	86-110	1		11/16/16 09:06	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**430**	mg/L	10.0	1		11/12/16 15:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 12:07		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:57	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 13:48	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/16/16 16:29	7440-44-0	

Sample: PZ-205-SS **Lab ID: 50158656004** Collected: 11/08/16 14:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.01**	Std. Units		1		11/08/16 00:00		
Field Temperature	**19.3**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**921**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**99**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**1.53**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**2.71**	NTU		1		11/08/16 00:00		
Total Well Depth	**92.98**	feet		1		11/08/16 00:00		
Elevation Water Level	**435.71**	ft/msl		1		11/08/16 00:00		
Depth to Water	**30.12**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**32.3**	mg/L	2.5	10		11/13/16 19:31	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	1		11/15/16 03:58	16984-48-8	
Sulfate	**51.8**	mg/L	2.5	10		11/13/16 19:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-205-SS **Lab ID: 50158656004** Collected: 11/08/16 14:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**135**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:30	7440-39-3	
Boron	ND	ug/L	100	1	11/11/16 11:27	11/18/16 03:30	7440-42-8	
Calcium	**94900**	ug/L	500	1	11/11/16 11:27	11/18/16 03:30	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:30	7440-48-4	
Iron	**207**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:30	7439-89-6	
Magnesium	**55700**	ug/L	500	1	11/11/16 11:27	11/18/16 03:30	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:30	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:30	7440-02-0	
Sodium	**15000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:30	7440-23-5	
Total Hardness by 2340B	**466000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:30		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:30	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:25	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:25	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:25	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:25	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:25	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:42	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 20:20	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 20:20	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 20:20	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 20:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 20:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 20:20	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 20:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 20:20	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 20:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 20:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 20:20	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 20:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 20:20	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 20:20	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 20:20	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 20:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 20:20	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-205-SS **Lab ID: 50158656004** Collected: 11/08/16 14:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		11/16/16 20:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 20:20	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 20:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 20:20	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 20:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 20:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 20:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 20:20	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 20:20	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 20:20	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 20:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 20:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 20:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 20:20	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 20:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 20:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 20:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 20:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 20:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 20:20	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 20:20	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 20:20	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 20:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/16/16 20:20	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/16/16 20:20	460-00-4	
Toluene-d8 (S)	108	%.	86-110	1		11/16/16 20:20	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**502**	mg/L	10.0	1		11/12/16 15:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:40		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:58	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-205-SS **Lab ID: 50158656004** Collected: 11/08/16 14:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 13:49	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/16/16 16:29	7440-44-0	

Sample: PZ-106-SD **Lab ID: 50158656005** Collected: 11/08/16 15:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.82**	Std. Units		1		11/08/16 00:00		
Field Temperature	**23.4**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**2110**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**-114**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**0.17**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**1.41**	NTU		1		11/08/16 00:00		
Total Well Depth	**196.48**	feet		1		11/08/16 00:00		
Elevation Water Level	**449.64**	ft/msl		1		11/08/16 00:00		
Depth to Water	**13.72**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**216**	mg/L	25.0	100		11/13/16 20:14	16887-00-6	
Fluoride	**1.2**	mg/L	0.10	1		11/15/16 04:13	16984-48-8	
Sulfate	**42.3**	mg/L	2.5	10		11/13/16 20:00	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**470**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:32	7440-39-3	
Boron	**943**	ug/L	100	1	11/11/16 11:27	11/18/16 03:32	7440-42-8	
Calcium	**97200**	ug/L	500	1	11/11/16 11:27	11/18/16 03:32	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:32	7440-48-4	
Iron	**1800**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:32	7439-89-6	
Magnesium	**67700**	ug/L	500	1	11/11/16 11:27	11/18/16 03:32	7439-95-4	
Manganese	**16.8**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:32	7439-96-5	
Nickel	**11.1**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:32	7440-02-0	
Sodium	**165000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:32	7440-23-5	
Total Hardness by 2340B	**522000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:32		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:32	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:30	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:30	7440-43-9	
Chromium	**5.2**	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7440-50-8	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-106-SD **Lab ID: 50158656005** Collected: 11/08/16 15:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:30	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:30	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:30	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:44	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 10:12	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 10:12	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 10:12	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 10:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 10:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 10:12	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 10:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 10:12	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 10:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 10:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 10:12	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 10:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 10:12	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 10:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 10:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 10:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 10:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 10:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 10:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 10:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 10:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 10:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 10:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 10:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 10:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 10:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 10:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 10:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 10:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 10:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 10:12	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 10:12	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 10:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 10:12	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 10:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 10:12	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-106-SD **Lab ID: 50158656005** Collected: 11/08/16 15:23 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 10:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 10:12	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 10:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 10:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 10:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 10:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 10:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 10:12	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 10:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 10:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 10:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		11/16/16 10:12	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/16/16 10:12	460-00-4	
Toluene-d8 (S)	106	%.	86-110	1		11/16/16 10:12	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1020**	mg/L	10.0	1		11/12/16 15:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**117**	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:42		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.074**	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:58	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**45.0**	mg/L	1.0	10		11/18/16 14:46	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**30.1**	mg/L	20.0	20		11/16/16 16:29	7440-44-0	

Sample: PZ-106-SS **Lab ID: 50158656006** Collected: 11/08/16 16:22 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.95**	Std. Units		1		11/08/16 00:00		
Field Temperature	**23.1**	deg C		1		11/08/16 00:00		
Field Specific Conductance	**973**	umhos/cm		1		11/08/16 00:00		
Field Oxidation Potential	**-98**	mV		1		11/08/16 00:00		
Oxygen, Dissolved	**0.15**	mg/L		1		11/08/16 00:00	7782-44-7	
Field Turbidity	**3.41**	NTU		1		11/08/16 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-106-SS **Lab ID: 50158656006** Collected: 11/08/16 16:22 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Total Well Depth	**161.42**	feet		1		11/08/16 00:00		
Elevation Water Level	**449.54**	ft/msl		1		11/08/16 00:00		
Depth to Water	**13.17**	feet		1		11/08/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**39.3**	mg/L	2.5	10		11/13/16 20:43	16887-00-6	
Fluoride	**1.9**	mg/L	0.10	1		11/15/16 04:28	16984-48-8	
Sulfate	**46.4**	mg/L	2.5	10		11/13/16 20:43	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**166**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:39	7440-39-3	
Boron	ND	ug/L	100	1	11/11/16 11:27	11/18/16 03:39	7440-42-8	
Calcium	**99100**	ug/L	500	1	11/11/16 11:27	11/18/16 03:39	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:39	7440-48-4	
Iron	**2520**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:39	7439-89-6	
Magnesium	**51400**	ug/L	500	1	11/11/16 11:27	11/18/16 03:39	7439-95-4	
Manganese	**15.2**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:39	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:39	7440-02-0	
Sodium	**23200**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:39	7440-23-5	
Total Hardness by 2340B	**459000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:39		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:39	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7440-36-0	
Arsenic	**6.1**	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:34	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:34	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:34	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:34	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:34	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:46	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 11:18	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 11:18	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 11:18	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 11:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 11:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 11:18	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 11:18	74-83-9	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-106-SS **Lab ID: 50158656006** Collected: 11/08/16 16:22 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 11:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 11:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 11:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 11:18	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 11:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 11:18	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 11:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 11:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 11:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 11:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 11:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 11:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 11:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 11:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 11:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 11:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 11:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 11:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 11:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 11:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 11:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 11:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 11:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 11:18	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 11:18	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 11:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 11:18	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 11:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 11:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 11:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 11:18	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 11:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 11:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 11:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 11:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 11:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 11:18	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 11:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 11:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 11:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		11/16/16 11:18	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	79-116	1		11/16/16 11:18	460-00-4	
Toluene-d8 (S)	105	%.	86-110	1		11/16/16 11:18	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**524**	mg/L	10.0	1		11/12/16 15:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-106-SS **Lab ID: 50158656006** Collected: 11/08/16 16:22 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**21.6**	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:43		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/15/16 10:48	11/15/16 13:59	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.25**	mg/L	0.10	1		11/18/16 14:48	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	4.0	4		11/16/16 16:29	7440-44-0	D3

Sample: PZ-105-SS **Lab ID: 50158656008** Collected: 11/09/16 11:26 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.02**	Std. Units		1		11/09/16 00:00		
Field Temperature	**19.5**	deg C		1		11/09/16 00:00		
Field Specific Conductance	**1081**	umhos/cm		1		11/09/16 00:00		
Field Oxidation Potential	**-76**	mV		1		11/09/16 00:00		
Oxygen, Dissolved	**0.82**	mg/L		1		11/09/16 00:00	7782-44-7	
Field Turbidity	**1.93**	NTU		1		11/09/16 00:00		
Total Well Depth	**144.86**	feet		1		11/09/16 00:00		
Elevation Water Level	**460.16**	ft/msl		1		11/09/16 00:00		
Depth to Water	**23.35**	feet		1		11/09/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**64.8**	mg/L	2.5	10		11/13/16 22:23	16887-00-6	
Fluoride	**0.51**	mg/L	0.10	1		11/15/16 04:58	16984-48-8	
Sulfate	**48.7**	mg/L	2.5	10		11/13/16 22:23	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**178**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:43	7440-39-3	
Boron	ND	ug/L	100	1	11/11/16 11:27	11/18/16 03:43	7440-42-8	
Calcium	**102000**	ug/L	500	1	11/11/16 11:27	11/18/16 03:43	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:43	7440-48-4	
Iron	**4010**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:43	7439-89-6	
Magnesium	**57000**	ug/L	500	1	11/11/16 11:27	11/18/16 03:43	7439-95-4	
Manganese	**119**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:43	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:43	7440-02-0	
Sodium	**39900**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:43	7440-23-5	
Total Hardness by 2340B	**488000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:43		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-105-SS **Lab ID: 50158656008** Collected: 11/09/16 11:26 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:43	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 02:43	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 02:43	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 02:43	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 02:43	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:50	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 21:26	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 21:26	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 21:26	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 21:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 21:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 21:26	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 21:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 21:26	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 21:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 21:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 21:26	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 21:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 21:26	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 21:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 21:26	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 21:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 21:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 21:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 21:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 21:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 21:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 21:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 21:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 21:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 21:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 21:26	78-87-5	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-105-SS **Lab ID: 50158656008** Collected: 11/09/16 11:26 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 21:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 21:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 21:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 21:26	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 21:26	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 21:26	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 21:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 21:26	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 21:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 21:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 21:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 21:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 21:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 21:26	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 21:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 21:26	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 21:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/16/16 21:26	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/16/16 21:26	460-00-4	
Toluene-d8 (S)	109	%.	86-110	1		11/16/16 21:26	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**585**	mg/L	10.0	1		11/14/16 07:39		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**10.2**	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 12:15		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/15/16 10:48	11/15/16 14:00	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 13:57	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	1.0	1		11/16/16 16:29	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SD **Lab ID: 50158656010** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.77**	Std. Units		1		11/09/16 00:00		
Field Temperature	**27.2**	deg C		1		11/09/16 00:00		
Field Specific Conductance	**2110**	umhos/cm		1		11/09/16 00:00		
Field Oxidation Potential	**-147**	mV		1		11/09/16 00:00		
Oxygen, Dissolved	**0.65**	mg/L		1		11/09/16 00:00	7782-44-7	
Field Turbidity	**0.91**	NTU		1		11/09/16 00:00		
Total Well Depth	**120.68**	feet		1		11/09/16 00:00		
Elevation Water Level	**462.70**	ft/msl		1		11/09/16 00:00		
Depth to Water	**20.81**	feet		1		11/09/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/14/16 22:26	11/15/16 16:16	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	48	%.	10-98	1	11/14/16 22:26	11/15/16 16:16	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**261**	mg/L	25.0	100		11/14/16 00:17	16887-00-6	
Fluoride	**0.80**	mg/L	0.10	1		11/15/16 05:42	16984-48-8	
Sulfate	**1.6**	mg/L	0.25	1		11/15/16 05:42	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**647**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:48	7440-39-3	
Boron	**1110**	ug/L	100	1	11/11/16 11:27	11/18/16 03:48	7440-42-8	
Calcium	**97800**	ug/L	500	1	11/11/16 11:27	11/18/16 03:48	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:48	7440-48-4	
Iron	**12600**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:48	7439-89-6	
Magnesium	**65400**	ug/L	500	1	11/11/16 11:27	11/18/16 03:48	7439-95-4	
Manganese	**136**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:48	7439-96-5	
Nickel	**67.9**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:48	7440-02-0	
Sodium	**171000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:48	7440-23-5	
Total Hardness by 2340B	**514000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:48		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7440-36-0	
Arsenic	**20.2**	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 04:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 04:05	7440-43-9	
Chromium	**14.8**	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 04:05	7440-28-0	
Vanadium	**12.6**	ug/L	10.0	1	11/15/16 10:00	11/17/16 04:05	7440-62-2	N2

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-104-SD** **Lab ID: 50158656010** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 20:54	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3,4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/13/16 22:23	11/15/16 13:01		
Phenol	ND	ug/L	10.0	1	11/13/16 22:23	11/15/16 13:01	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	105	%.	38-124	1	11/13/16 22:23	11/15/16 13:01	4165-60-0	
2-Fluorobiphenyl (S)	66	%.	33-114	1	11/13/16 22:23	11/15/16 13:01	321-60-8	
p-Terphenyl-d14 (S)	62	%.	10-113	1	11/13/16 22:23	11/15/16 13:01	1718-51-0	
Phenol-d5 (S)	27	%.	10-58	1	11/13/16 22:23	11/15/16 13:01	4165-62-2	
2-Fluorophenol (S)	46	%.	11-79	1	11/13/16 22:23	11/15/16 13:01	367-12-4	
2,4,6-Tribromophenol (S)	107	%.	29-158	1	11/13/16 22:23	11/15/16 13:01	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	50.0	5		11/16/16 15:41	67-64-1	
Acrylonitrile	ND	ug/L	500	5		11/16/16 15:41	107-13-1	
Benzene	**592**	ug/L	25.0	5		11/16/16 15:41	71-43-2	
Bromochloromethane	ND	ug/L	25.0	5		11/16/16 15:41	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	5		11/16/16 15:41	75-27-4	
Bromoform	ND	ug/L	25.0	5		11/16/16 15:41	75-25-2	
Bromomethane	ND	ug/L	50.0	5		11/16/16 15:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	5		11/16/16 15:41	78-93-3	
n-Butyl chloride	ND	ug/L	25.0	5		11/16/16 15:41	109-69-3	N2
Carbon disulfide	ND	ug/L	50.0	5		11/16/16 15:41	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	5		11/16/16 15:41	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5		11/16/16 15:41	108-90-7	
Chloroethane	ND	ug/L	50.0	5		11/16/16 15:41	75-00-3	
Chloroform	ND	ug/L	25.0	5		11/16/16 15:41	67-66-3	
Chloromethane	ND	ug/L	50.0	5		11/16/16 15:41	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	5		11/16/16 15:41	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5		11/16/16 15:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		11/16/16 15:41	106-93-4	
Dibromomethane	ND	ug/L	50.0	5		11/16/16 15:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	5		11/16/16 15:41	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	5		11/16/16 15:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	50.0	5		11/16/16 15:41	110-57-6	
1,1-Dichloroethane	ND	ug/L	25.0	5		11/16/16 15:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		11/16/16 15:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		11/16/16 15:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	5		11/16/16 15:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5		11/16/16 15:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	5		11/16/16 15:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	25.0	5		11/16/16 15:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	5		11/16/16 15:41	10061-02-6	
Ethylbenzene	ND	ug/L	25.0	5		11/16/16 15:41	100-41-4	
2-Hexanone	ND	ug/L	50.0	5		11/16/16 15:41	591-78-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SD **Lab ID: 50158656010** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Iodomethane	ND	ug/L	25.0	5		11/16/16 15:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	25.0	5		11/16/16 15:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	25.0	5		11/16/16 15:41	99-87-6	
Methylene Chloride	ND	ug/L	25.0	5		11/16/16 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	5		11/16/16 15:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	25.0	5		11/16/16 15:41	1634-04-4	
Styrene	ND	ug/L	25.0	5		11/16/16 15:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	5		11/16/16 15:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	5		11/16/16 15:41	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	5		11/16/16 15:41	127-18-4	
Tetrahydrofuran	**2060**	ug/L	500	5		11/16/16 15:41	109-99-9	E,N2
Toluene	ND	ug/L	25.0	5		11/16/16 15:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		11/16/16 15:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5		11/16/16 15:41	79-00-5	
Trichloroethene	ND	ug/L	25.0	5		11/16/16 15:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	50.0	5		11/16/16 15:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	25.0	5		11/16/16 15:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	25.0	5		11/16/16 15:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	25.0	5		11/16/16 15:41	108-67-8	
Vinyl acetate	ND	ug/L	50.0	5		11/16/16 15:41	108-05-4	
Vinyl chloride	ND	ug/L	10.0	5		11/16/16 15:41	75-01-4	
Xylene (Total)	ND	ug/L	25.0	5		11/16/16 15:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	5		11/16/16 15:41	1868-53-7	D4
4-Bromofluorobenzene (S)	98	%.	79-116	5		11/16/16 15:41	460-00-4	
Toluene-d8 (S)	105	%.	86-110	5		11/16/16 15:41	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1050**	mg/L	20.0	1		11/14/16 07:40		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**266**	mg/L	10.0	1	11/21/16 16:10	11/21/16 19:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/11/16 09:28		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.20	2		11/21/16 12:24		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.14**	mg/L	0.050	1	11/15/16 10:48	11/15/16 14:02	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**45.8**	mg/L	1.0	10		11/18/16 14:52	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SD **Lab ID: 50158656010** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**65.0**	mg/L	40.0	40		11/16/16 16:29	7440-44-0	

Sample: PZ-104-SD Dup **Lab ID: 50158656011** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/14/16 22:26	11/15/16 16:24	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	56	%.	10-98	1	11/14/16 22:26	11/15/16 16:24	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**273**	mg/L	25.0	100		11/14/16 01:00	16887-00-6	
Fluoride	**0.76**	mg/L	0.10	1		11/15/16 06:41	16984-48-8	
Sulfate	**1.5**	mg/L	0.25	1		11/15/16 06:41	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**650**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:50	7440-39-3	
Boron	**1130**	ug/L	100	1	11/11/16 11:27	11/18/16 03:50	7440-42-8	
Calcium	**100000**	ug/L	500	1	11/11/16 11:27	11/18/16 03:50	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:50	7440-48-4	
Iron	**13000**	ug/L	50.0	1	11/11/16 11:27	11/18/16 03:50	7439-89-6	
Magnesium	**67000**	ug/L	500	1	11/11/16 11:27	11/18/16 03:50	7439-95-4	
Manganese	**140**	ug/L	5.0	1	11/11/16 11:27	11/18/16 03:50	7439-96-5	
Nickel	**69.0**	ug/L	10.0	1	11/11/16 11:27	11/18/16 03:50	7440-02-0	
Sodium	**173000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:50	7440-23-5	
Total Hardness by 2340B	**526000**	ug/L	1000	1	11/11/16 11:27	11/18/16 03:50		
Zinc	ND	ug/L	20.0	1	11/11/16 11:27	11/18/16 03:50	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7440-36-0	
Arsenic	**19.7**	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 04:09	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 04:09	7440-43-9	
Chromium	**14.4**	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 04:09	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 04:09	7440-28-0	
Vanadium	**12.1**	ug/L	10.0	1	11/15/16 10:00	11/17/16 04:09	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 21:03	7439-97-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SD Dup **Lab ID: 50158656011** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/13/16 22:23	11/15/16 13:18		
Phenol	ND	ug/L	10.0	1	11/13/16 22:23	11/15/16 13:18	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	96	%.	38-124	1	11/13/16 22:23	11/15/16 13:18	4165-60-0	
2-Fluorobiphenyl (S)	63	%.	33-114	1	11/13/16 22:23	11/15/16 13:18	321-60-8	
p-Terphenyl-d14 (S)	64	%.	10-113	1	11/13/16 22:23	11/15/16 13:18	1718-51-0	
Phenol-d5 (S)	27	%.	10-58	1	11/13/16 22:23	11/15/16 13:18	4165-62-2	
2-Fluorophenol (S)	44	%.	11-79	1	11/13/16 22:23	11/15/16 13:18	367-12-4	
2,4,6-Tribromophenol (S)	118	%.	29-158	1	11/13/16 22:23	11/15/16 13:18	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/18/16 04:43	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/18/16 04:43	107-13-1	
Benzene	**564**	ug/L	50.0	10		11/16/16 16:47	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/18/16 04:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/18/16 04:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/18/16 04:43	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/18/16 04:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/18/16 04:43	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/18/16 04:43	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/18/16 04:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/18/16 04:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/18/16 04:43	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/18/16 04:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/18/16 04:43	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/18/16 04:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/18/16 04:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/18/16 04:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/18/16 04:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/18/16 04:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 04:43	95-50-1	
1,4-Dichlorobenzene	**6.5**	ug/L	5.0	1		11/18/16 04:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/18/16 04:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/18/16 04:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/18/16 04:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/18/16 04:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 04:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 04:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/18/16 04:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 04:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 04:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/18/16 04:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/18/16 04:43	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/18/16 04:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/18/16 04:43	98-82-8	
p-Isopropyltoluene	**9.9**	ug/L	5.0	1		11/18/16 04:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/18/16 04:43	75-09-2	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SD Dup **Lab ID: 50158656011** Collected: 11/09/16 16:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/18/16 04:43	108-10-1	
Methyl-tert-butyl ether	**5.2**	ug/L	5.0	1		11/18/16 04:43	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/18/16 04:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 04:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 04:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/18/16 04:43	127-18-4	
Tetrahydrofuran	**2030**	ug/L	1000	10		11/16/16 16:47	109-99-9	N2
Toluene	**9.7**	ug/L	5.0	1		11/18/16 04:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/18/16 04:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/18/16 04:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/18/16 04:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/18/16 04:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/18/16 04:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 04:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 04:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/18/16 04:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/18/16 04:43	75-01-4	
Xylene (Total)	**26.8**	ug/L	5.0	1		11/18/16 04:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	84-118	1		11/18/16 04:43	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	79-116	1		11/18/16 04:43	460-00-4	
Toluene-d8 (S)	95	%.	86-110	1		11/18/16 04:43	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1060**	mg/L	10.0	1		11/14/16 07:51		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**257**	mg/L	10.0	1	11/21/16 16:10	11/21/16 19:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/11/16 09:34		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.20	2		11/21/16 12:28		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.14**	mg/L	0.050	1	11/15/16 10:48	11/15/16 14:03	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**46.8**	mg/L	1.0	10		11/18/16 14:53	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**61.8**	mg/L	40.0	40		11/16/16 16:29	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: Trip Blank **Lab ID: 50158656012** Collected: 11/09/16 08:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/16/16 17:52	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/16/16 17:52	107-13-1	
Benzene	ND	ug/L	5.0	1		11/16/16 17:52	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/16/16 17:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/16/16 17:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/16/16 17:52	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/16/16 17:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/16/16 17:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/16/16 17:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/16/16 17:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/16/16 17:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/16/16 17:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/16/16 17:52	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/16/16 17:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/16/16 17:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/16/16 17:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/16/16 17:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/16/16 17:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 17:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/16/16 17:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/16/16 17:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/16/16 17:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/16/16 17:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/16/16 17:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 17:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/16/16 17:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/16/16 17:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 17:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/16/16 17:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/16/16 17:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/16/16 17:52	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/16/16 17:52	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/16/16 17:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/16/16 17:52	108-10-1	
Styrene	ND	ug/L	5.0	1		11/16/16 17:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 17:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/16/16 17:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/16/16 17:52	127-18-4	
Toluene	ND	ug/L	5.0	1		11/16/16 17:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/16/16 17:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/16/16 17:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/16/16 17:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/16/16 17:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/16/16 17:52	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/16/16 17:52	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/16/16 17:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/16/16 17:52	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: Trip Blank **Lab ID: 50158656012** Collected: 11/09/16 08:00 Received: 11/10/16 08:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		11/16/16 17:52	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	79-116	1		11/16/16 17:52	460-00-4	
Toluene-d8 (S)	104	%.	86-110	1		11/16/16 17:52	2037-26-5	

Sample: PZ-100-SD **Lab ID: 50158656018** Collected: 11/10/16 08:41 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.22**	Std. Units		1		11/10/16 00:00		
Field Temperature	**16.0**	deg C		1		11/10/16 00:00		
Field Specific Conductance	**628**	umhos/cm		1		11/10/16 00:00		
Field Oxidation Potential	**14**	mV		1		11/10/16 00:00		
Oxygen, Dissolved	**0.40**	mg/L		1		11/10/16 00:00	7782-44-7	
Field Turbidity	**4.16**	NTU		1		11/10/16 00:00		
Total Well Depth	**96.42**	feet		1		11/10/16 00:00		
Elevation Water Level	**453.17**	ft/msl		1		11/10/16 00:00		
Depth to Water	**32.55**	feet		1		11/10/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.6**	mg/L	0.25	1		11/20/16 20:04	16887-00-6	
Fluoride	**2.2**	mg/L	0.10	1		11/20/16 20:04	16984-48-8	
Sulfate	**10**	mg/L	0.25	1		11/20/16 20:04	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**323**	ug/L	10.0	1	11/16/16 07:11	11/17/16 11:48	7440-39-3	
Boron	ND	ug/L	100	1	11/16/16 07:11	11/17/16 11:48	7440-42-8	CU
Calcium	**75400**	ug/L	500	1	11/16/16 07:11	11/17/16 11:48	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 11:48	7440-48-4	
Iron	**802**	ug/L	50.0	1	11/16/16 07:11	11/17/16 11:48	7439-89-6	
Magnesium	**35700**	ug/L	500	1	11/16/16 07:11	11/17/16 11:48	7439-95-4	
Manganese	**59.8**	ug/L	5.0	1	11/16/16 07:11	11/17/16 11:48	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/16 07:11	11/17/16 11:48	7440-02-0	
Sodium	**6560**	ug/L	1000	1	11/16/16 07:11	11/17/16 11:48	7440-23-5	
Total Hardness by 2340B	**335000**	ug/L	1000	1	11/16/16 07:11	11/17/16 11:48		
Zinc	ND	ug/L	20.0	1	11/16/16 07:11	11/17/16 11:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:19	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 03:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7440-50-8	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-100-SD **Lab ID: 50158656018** Collected: 11/10/16 08:41 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:19	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:19	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 03:19	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 21:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/18/16 08:34	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/18/16 08:34	107-13-1	
Benzene	ND	ug/L	5.0	1		11/18/16 08:34	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/18/16 08:34	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/18/16 08:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/18/16 08:34	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/18/16 08:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/18/16 08:34	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/18/16 08:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/18/16 08:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/18/16 08:34	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/18/16 08:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/18/16 08:34	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/18/16 08:34	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/18/16 08:34	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/18/16 08:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/18/16 08:34	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/18/16 08:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 08:34	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 08:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/18/16 08:34	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/18/16 08:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/18/16 08:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/18/16 08:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 08:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 08:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/18/16 08:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 08:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 08:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/18/16 08:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/18/16 08:34	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/18/16 08:34	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/18/16 08:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/18/16 08:34	108-10-1	
Styrene	ND	ug/L	5.0	1		11/18/16 08:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 08:34	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-100-SD Lab ID: 50158656018 Collected: 11/10/16 08:41 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 08:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/18/16 08:34	127-18-4	
Toluene	ND	ug/L	5.0	1		11/18/16 08:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/18/16 08:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/18/16 08:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/18/16 08:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/18/16 08:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/18/16 08:34	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/18/16 08:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/18/16 08:34	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/18/16 08:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	84-118	1		11/18/16 08:34	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	79-116	1		11/18/16 08:34	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		11/18/16 08:34	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**315**	mg/L	10.0	1		11/16/16 13:52		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:17		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/17/16 09:07	11/18/16 11:40	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.46**	mg/L	0.10	1		11/18/16 14:11	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	4.0	4		11/17/16 20:03	7440-44-0	D3

Sample: PZ-100-SS Lab ID: 50158656019 Collected: 11/10/16 09:24 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.08**	Std. Units		1		11/10/16 00:00		
Field Temperature	**16.4**	deg C		1		11/10/16 00:00		
Field Specific Conductance	**821**	umhos/cm		1		11/10/16 00:00		
Field Oxidation Potential	**64**	mV		1		11/10/16 00:00		
Oxygen, Dissolved	**1.81**	mg/L		1		11/10/16 00:00	7782-44-7	
Field Turbidity	**4.51**	NTU		1		11/10/16 00:00		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-100-SS | Lab ID: 50158656019 | Collected: 11/10/16 09:24 | Received: 11/12/16 12:15 | Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Total Well Depth	**89.12**	feet		1		11/10/16 00:00		
Elevation Water Level	**455.98**	ft/msl		1		11/10/16 00:00		
Depth to Water	**29.77**	feet		1		11/10/16 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**6.1**	mg/L	0.25	1		11/19/16 21:00	16887-00-6	
Fluoride	**0.65**	mg/L	0.10	1		11/19/16 21:00	16984-48-8	
Sulfate	**36.9**	mg/L	2.5	10		11/22/16 22:35	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**65.6**	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:17	7440-39-3	
Boron	**118**	ug/L	100	1	11/16/16 07:11	11/17/16 15:17	7440-42-8	
Calcium	**93700**	ug/L	500	1	11/16/16 07:11	11/17/16 15:17	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:17	7440-48-4	
Iron	ND	ug/L	50.0	1	11/16/16 07:11	11/17/16 15:17	7439-89-6	
Magnesium	**51000**	ug/L	500	1	11/16/16 07:11	11/17/16 15:17	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:17	7439-96-5	
Nickel	**11.5**	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:17	7440-02-0	
Sodium	**11100**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:17	7440-23-5	
Total Hardness by 2340B	**444000**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:17		
Zinc	ND	ug/L	20.0	1	11/16/16 07:11	11/17/16 15:17	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:24	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 03:24	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:24	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:24	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 03:24	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	12/01/16 10:49	12/01/16 21:18	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/18/16 09:40	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/18/16 09:40	107-13-1	
Benzene	ND	ug/L	5.0	1		11/18/16 09:40	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/18/16 09:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/18/16 09:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/18/16 09:40	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/18/16 09:40	74-83-9	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-100-SS** **Lab ID: 50158656019** Collected: 11/10/16 09:24 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		11/18/16 09:40	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/18/16 09:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/18/16 09:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/18/16 09:40	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/18/16 09:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/18/16 09:40	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/18/16 09:40	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/18/16 09:40	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/18/16 09:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/18/16 09:40	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/18/16 09:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 09:40	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 09:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/18/16 09:40	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/18/16 09:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/18/16 09:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/18/16 09:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 09:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 09:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/18/16 09:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 09:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 09:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/18/16 09:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/18/16 09:40	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/18/16 09:40	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/18/16 09:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/18/16 09:40	108-10-1	
Styrene	ND	ug/L	5.0	1		11/18/16 09:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 09:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 09:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/18/16 09:40	127-18-4	
Toluene	ND	ug/L	5.0	1		11/18/16 09:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/18/16 09:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/18/16 09:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/18/16 09:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/18/16 09:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/18/16 09:40	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/18/16 09:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/18/16 09:40	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/18/16 09:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	84-118	1		11/18/16 09:40	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/18/16 09:40	460-00-4	
Toluene-d8 (S)	99	%.	86-110	1		11/18/16 09:40	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**501**	mg/L	10.0	1		11/16/16 13:53		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-100-SS **Lab ID: 50158656019** Collected: 11/10/16 09:24 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.10	1		11/21/16 13:19		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/17/16 09:07	11/18/16 11:40	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 14:12	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/27/16 09:31	7440-44-0	

Sample: FB@PZ-104-KS **Lab ID: 50158656020** Collected: 11/10/16 09:55 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/17/16 13:30	11/18/16 12:37	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	56	%.	10-98	1	11/17/16 13:30	11/18/16 12:37	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	ND	mg/L	0.25	1		11/20/16 21:18	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/20/16 21:18	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/20/16 21:18	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	ND	ug/L	10.0	1	11/16/16 07:11	11/17/16 11:54	7440-39-3	
Boron	ND	ug/L	100	1	11/16/16 07:11	11/17/16 11:54	7440-42-8	CU
Calcium	ND	ug/L	500	1	11/16/16 07:11	11/17/16 11:54	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 11:54	7440-48-4	
Iron	ND	ug/L	50.0	1	11/16/16 07:11	11/17/16 11:54	7439-89-6	
Magnesium	ND	ug/L	500	1	11/16/16 07:11	11/17/16 11:54	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 11:54	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/16 07:11	11/17/16 11:54	7440-02-0	
Sodium	ND	ug/L	1000	1	11/16/16 07:11	11/17/16 11:54	7440-23-5	
Total Hardness by 2340B	ND	ug/L	1000	1	11/16/16 07:11	11/17/16 11:54		
Zinc	ND	ug/L	20.0	1	11/16/16 07:11	11/17/16 11:54	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7440-38-2	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: FB@PZ-104-KS **Lab ID: 50158656020** Collected: 11/10/16 09:55 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 01:40	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 01:40	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 01:40	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 01:40	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 01:40	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/30/16 13:27	11/30/16 20:57	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:01		
Phenol	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:01	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	100	%.	38-124	1	11/16/16 16:34	11/17/16 20:01	4165-60-0	
2-Fluorobiphenyl (S)	82	%.	33-114	1	11/16/16 16:34	11/17/16 20:01	321-60-8	
p-Terphenyl-d14 (S)	124	%.	10-113	1	11/16/16 16:34	11/17/16 20:01	1718-51-0	S3
Phenol-d5 (S)	30	%.	10-58	1	11/16/16 16:34	11/17/16 20:01	4165-62-2	
2-Fluorophenol (S)	44	%.	11-79	1	11/16/16 16:34	11/17/16 20:01	367-12-4	
2,4,6-Tribromophenol (S)	100	%.	29-158	1	11/16/16 16:34	11/17/16 20:01	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	**12.1**	ug/L	10.0	1		11/18/16 02:15	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/18/16 02:15	107-13-1	
Benzene	ND	ug/L	5.0	1		11/18/16 02:15	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/18/16 02:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/18/16 02:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/18/16 02:15	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/18/16 02:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/18/16 02:15	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/18/16 02:15	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/18/16 02:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/18/16 02:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/18/16 02:15	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/18/16 02:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/18/16 02:15	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/18/16 02:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/18/16 02:15	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/18/16 02:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/18/16 02:15	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/18/16 02:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 02:15	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 02:15	106-46-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: FB@PZ-104-KS **Lab ID: 50158656020** Collected: 11/10/16 09:55 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/18/16 02:15	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/18/16 02:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/18/16 02:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/18/16 02:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 02:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 02:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/18/16 02:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/18/16 02:15	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/18/16 02:15	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/18/16 02:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/18/16 02:15	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/18/16 02:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/18/16 02:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/18/16 02:15	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/18/16 02:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 02:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 02:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/18/16 02:15	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		11/18/16 02:15	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/18/16 02:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/18/16 02:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/18/16 02:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/18/16 02:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/18/16 02:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/18/16 02:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 02:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 02:15	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/18/16 02:15	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/18/16 02:15	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/18/16 02:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		11/18/16 02:15	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	79-116	1		11/18/16 02:15	460-00-4	
Toluene-d8 (S)	100	%.	86-110	1		11/18/16 02:15	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		11/16/16 13:53		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/14/16 09:21		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: FB@PZ-104-KS **Lab ID: 50158656020** Collected: 11/10/16 09:55 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:21		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/17/16 09:07	11/18/16 11:42	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 14:13	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/17/16 21:51	7440-44-0	

Sample: PZ-104-KS **Lab ID: 50158656021** Collected: 11/10/16 11:19 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.14**	Std. Units		1		11/10/16 00:00		
Field Temperature	**24.9**	deg C		1		11/10/16 00:00		
Field Specific Conductance	**793**	umhos/cm		1		11/10/16 00:00		
Field Oxidation Potential	**-87**	mV		1		11/10/16 00:00		
Oxygen, Dissolved	**0.34**	mg/L		1		11/10/16 00:00	7782-44-7	
Field Turbidity	**4.59**	NTU		1		11/10/16 00:00		
Total Well Depth	**93.09**	feet		1		11/10/16 00:00		
Elevation Water Level	**467.23**	ft/msl		1		11/10/16 00:00		
Depth to Water	**16.72**	feet		1		11/10/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/17/16 13:30	11/18/16 12:45	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	54	%.	10-98	1	11/17/16 13:30	11/18/16 12:45	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**39.1**	mg/L	2.5	10		11/22/16 23:05	16887-00-6	
Fluoride	**1.7**	mg/L	0.10	1		11/22/16 22:50	16984-48-8	
Sulfate	**22.9**	mg/L	2.5	10		11/22/16 23:05	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**90.0**	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:20	7440-39-3	
Boron	**116**	ug/L	100	1	11/16/16 07:11	11/17/16 15:20	7440-42-8	
Calcium	**74900**	ug/L	500	1	11/16/16 07:11	11/17/16 15:20	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:20	7440-48-4	
Iron	**1210**	ug/L	50.0	1	11/16/16 07:11	11/17/16 15:20	7439-89-6	
Magnesium	**36600**	ug/L	500	1	11/16/16 07:11	11/17/16 15:20	7439-95-4	
Manganese	**12.9**	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:20	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:20	7440-02-0	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-KS **Lab ID: 50158656021** Collected: 11/10/16 11:19 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Sodium	**34800**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:20	7440-23-5	
Total Hardness by 2340B	**338000**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:20		
Zinc	ND	ug/L	20.0	1	11/16/16 07:11	11/17/16 15:20	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/15/16 10:00	11/17/16 03:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7440-47-3	
Copper	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7440-50-8	
Lead	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7782-49-2	
Silver	ND	ug/L	5.0	1	11/15/16 10:00	11/17/16 03:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/15/16 10:00	11/17/16 03:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/15/16 10:00	11/17/16 03:28	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/30/16 13:27	11/30/16 20:59	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:18		
Phenol	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:18	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	89	%.	38-124	1	11/16/16 16:34	11/17/16 20:18	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	33-114	1	11/16/16 16:34	11/17/16 20:18	321-60-8	
p-Terphenyl-d14 (S)	88	%.	10-113	1	11/16/16 16:34	11/17/16 20:18	1718-51-0	
Phenol-d5 (S)	26	%.	10-58	1	11/16/16 16:34	11/17/16 20:18	4165-62-2	
2-Fluorophenol (S)	39	%.	11-79	1	11/16/16 16:34	11/17/16 20:18	367-12-4	
2,4,6-Tribromophenol (S)	64	%.	29-158	1	11/16/16 16:34	11/17/16 20:18	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/18/16 02:48	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/18/16 02:48	107-13-1	
Benzene	ND	ug/L	5.0	1		11/18/16 02:48	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/18/16 02:48	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/18/16 02:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/18/16 02:48	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/18/16 02:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/18/16 02:48	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/18/16 02:48	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/18/16 02:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/18/16 02:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/18/16 02:48	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/18/16 02:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/18/16 02:48	67-66-3	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-KS **Lab ID: 50158656021** Collected: 11/10/16 11:19 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloromethane	ND	ug/L	10.0	1		11/18/16 02:48	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/18/16 02:48	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/18/16 02:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/18/16 02:48	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/18/16 02:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 02:48	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/18/16 02:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/18/16 02:48	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/18/16 02:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/18/16 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/18/16 02:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/18/16 02:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 02:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/18/16 02:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/18/16 02:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/18/16 02:48	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/18/16 02:48	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/18/16 02:48	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/18/16 02:48	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/18/16 02:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/18/16 02:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/18/16 02:48	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/18/16 02:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 02:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/18/16 02:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/18/16 02:48	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		11/18/16 02:48	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/18/16 02:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/18/16 02:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/18/16 02:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/18/16 02:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/18/16 02:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/18/16 02:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 02:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/18/16 02:48	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/18/16 02:48	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/18/16 02:48	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/18/16 02:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	84-118	1		11/18/16 02:48	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/18/16 02:48	460-00-4	
Toluene-d8 (S)	102	%.	86-110	1		11/18/16 02:48	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**407**	mg/L	10.0	1		11/16/16 13:53		

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-KS **Lab ID: 50158656021** Collected: 11/10/16 11:19 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/16 14:25	11/21/16 17:45		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/14/16 09:21		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:22		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/17/16 09:07	11/18/16 11:42	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.22**	mg/L	0.10	1		11/18/16 14:14	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	4.0	4		11/27/16 09:31	7440-44-0	D3

Sample: PZ-104-SS **Lab ID: 50158656022** Collected: 11/10/16 14:01 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.59**	Std. Units		1		11/10/16 00:00		
Field Temperature	**27.3**	deg C		1		11/10/16 00:00		
Field Specific Conductance	**797**	umhos/cm		1		11/10/16 00:00		
Field Oxidation Potential	**-173**	mV		1		11/10/16 00:00		
Oxygen, Dissolved	**0.12**	mg/L		1		11/10/16 00:00	7782-44-7	
Field Turbidity	**5.23**	NTU		1		11/10/16 00:00		
Total Well Depth	**140.32**	feet		1		11/10/16 00:00		
Elevation Water Level	**463.61**	ft/msl		1		11/10/16 00:00		
Depth to Water	**19.84**	feet		1		11/10/16 00:00		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/17/16 13:30	11/18/16 12:53	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	66	%.	10-98	1	11/17/16 13:30	11/18/16 12:53	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.8**	mg/L	0.25	1		11/22/16 23:19	16887-00-6	
Fluoride	**0.73**	mg/L	0.10	1		11/22/16 23:19	16984-48-8	
Sulfate	**13.2**	mg/L	0.25	1		11/22/16 23:19	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**100**	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:23	7440-39-3	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SS **Lab ID: 50158656022** Collected: 11/10/16 14:01 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Boron	**137**	ug/L	100	1	11/16/16 07:11	11/17/16 15:23	7440-42-8	
Calcium	**82300**	ug/L	500	1	11/16/16 07:11	11/17/16 15:23	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:23	7440-48-4	
Iron	**146**	ug/L	50.0	1	11/16/16 07:11	11/17/16 15:23	7439-89-6	
Magnesium	**48300**	ug/L	500	1	11/16/16 07:11	11/17/16 15:23	7439-95-4	
Manganese	**23.6**	ug/L	5.0	1	11/16/16 07:11	11/17/16 15:23	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/16 07:11	11/17/16 15:23	7440-02-0	
Sodium	**14600**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:23	7440-23-5	
Total Hardness by 2340B	**405000**	ug/L	1000	1	11/16/16 07:11	11/17/16 15:23		
Zinc	ND	ug/L	20.0	1	11/16/16 07:11	11/17/16 15:23	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/17/16 06:00	11/19/16 03:46	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/17/16 06:00	11/19/16 03:46	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7440-47-3	
Copper	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7440-50-8	
Lead	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7782-49-2	
Silver	ND	ug/L	5.0	1	11/17/16 06:00	11/19/16 03:46	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/17/16 06:00	11/19/16 03:46	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/17/16 06:00	11/19/16 03:46	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/30/16 13:27	11/30/16 21:01	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:34		
Phenol	ND	ug/L	10.0	1	11/16/16 16:34	11/17/16 20:34	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	92	%.	38-124	1	11/16/16 16:34	11/17/16 20:34	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	33-114	1	11/16/16 16:34	11/17/16 20:34	321-60-8	
p-Terphenyl-d14 (S)	111	%.	10-113	1	11/16/16 16:34	11/17/16 20:34	1718-51-0	
Phenol-d5 (S)	27	%.	10-58	1	11/16/16 16:34	11/17/16 20:34	4165-62-2	
2-Fluorophenol (S)	44	%.	11-79	1	11/16/16 16:34	11/17/16 20:34	367-12-4	
2,4,6-Tribromophenol (S)	102	%.	29-158	1	11/16/16 16:34	11/17/16 20:34	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/19/16 03:07	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/19/16 03:07	107-13-1	
Benzene	**279**	ug/L	5.0	1		11/19/16 03:07	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/19/16 03:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/19/16 03:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/19/16 03:07	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/19/16 03:07	74-83-9	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: PZ-104-SS **Lab ID: 50158656022** Collected: 11/10/16 14:01 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		11/19/16 03:07	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/19/16 03:07	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/19/16 03:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/19/16 03:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/19/16 03:07	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/19/16 03:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/19/16 03:07	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/19/16 03:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/19/16 03:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/19/16 03:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/19/16 03:07	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/19/16 03:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/19/16 03:07	95-50-1	
1,4-Dichlorobenzene	**7.1**	ug/L	5.0	1		11/19/16 03:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/19/16 03:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/19/16 03:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/19/16 03:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/19/16 03:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/19/16 03:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/19/16 03:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/19/16 03:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/19/16 03:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/19/16 03:07	10061-02-6	
Ethylbenzene	**5.9**	ug/L	5.0	1		11/19/16 03:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/19/16 03:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/19/16 03:07	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/19/16 03:07	98-82-8	
p-Isopropyltoluene	**12.3**	ug/L	5.0	1		11/19/16 03:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/19/16 03:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/19/16 03:07	108-10-1	
Methyl-tert-butyl ether	**8.6**	ug/L	5.0	1		11/19/16 03:07	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/19/16 03:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/19/16 03:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/19/16 03:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/19/16 03:07	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		11/19/16 03:07	109-99-9	N2
Toluene	**21.0**	ug/L	5.0	1		11/19/16 03:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/19/16 03:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/19/16 03:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/19/16 03:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/19/16 03:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/19/16 03:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/19/16 03:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/19/16 03:07	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/19/16 03:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/19/16 03:07	75-01-4	
Xylene (Total)	**12.2**	ug/L	5.0	1		11/19/16 03:07	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Sample: **PZ-104-SS** **Lab ID: 50158656022** Collected: 11/10/16 14:01 Received: 11/12/16 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	99	%.	84-118	1		11/19/16 03:07	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	79-116	1		11/19/16 03:07	460-00-4	
Toluene-d8 (S)	98	%.	86-110	1		11/19/16 03:07	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**410**	mg/L	10.0	1		11/16/16 13:53		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**26.2**	mg/L	10.0	1	11/21/16 15:00	11/21/16 18:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	20.0	20		11/14/16 09:22		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/21/16 13:24		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/17/16 09:07	11/18/16 11:43	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/18/16 14:17	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**6.3**	mg/L	4.0	4		11/17/16 22:45	7440-44-0	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 360977 — Analysis Method: EPA 9056
QC Batch Method: EPA 9056 — Analysis Description: 9056 IC Anions
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

METHOD BLANK: 1668046 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/16/16 10:16	
Fluoride	mg/L	ND	0.10	11/16/16 10:16	
Sulfate	mg/L	ND	0.25	11/16/16 10:16	

LABORATORY CONTROL SAMPLE: 1668047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	.5	0.55	110	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1668048 1668049

Parameter	Units	50158656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.2	1.2	1.2	11.4	11.4	95	99	80-120	0	15	
Fluoride	mg/L	2.0	.5	.5	2.6	2.6	110	106	80-120	1	15	
Sulfate	mg/L	45.3	25	25	70.6	71.1	101	103	80-120	1	15	

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

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361548 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

METHOD BLANK: 1671030 Matrix: Water
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/20/16 19:34	
Fluoride	mg/L	ND	0.10	11/20/16 19:34	
Sulfate	mg/L	ND	0.25	11/20/16 19:34	

LABORATORY CONTROL SAMPLE: 1671031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.5	118	80-120	
Fluoride	mg/L	.5	0.53	107	80-120	
Sulfate	mg/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1676394 1676395

Parameter	Units	50158656018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	1.2	1.2	2.6	2.7	83	89	80-120	2	15	
Fluoride	mg/L	2.2	.5	.5	2.8	2.8	110	108	80-120	0	15	
Sulfate	mg/L	10	2.5	2.5	12.6	12.6	104	105	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363967 — Analysis Method: EPA 9056
QC Batch Method: EPA 9056 — Analysis Description: 9056 IC Anions
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1681486 — Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	12/01/16 16:48	
Fluoride	mg/L	ND	0.10	12/01/16 16:48	
Sulfate	mg/L	ND	0.25	12/01/16 16:48	

LABORATORY CONTROL SAMPLE: 1681487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	97	80-120	
Fluoride	mg/L	.5	0.45	90	80-120	
Sulfate	mg/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681488 — 1681489

Parameter	Units	50160006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	399	125	125	505	515	85	93	80-120	2	15	
Fluoride	mg/L	0.69	.5	.5	1.1	1.1	88	89	80-120	1	15	
Sulfate	mg/L	3.0	2.5	2.5	5.5	5.6	100	102	80-120	1	15	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362441 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019

METHOD BLANK: 1674931 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/01/16 20:23	

LABORATORY CONTROL SAMPLE: 1674932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674933 1674934

Parameter	Units	50158656002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.7	96	93	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362445 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 50158656020, 50158656021, 50158656022

METHOD BLANK: 1674939 — Matrix: Water
Associated Lab Samples: 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/30/16 20:49	

LABORATORY CONTROL SAMPLE: 1674940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674941 1674942

Parameter	Units	50158528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.6	5.3	112	106	75-125	6	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364736 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1685320 — Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	12/06/16 20:48	

LABORATORY CONTROL SAMPLE: 1685321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1685322 — 1685323

Parameter	Units	50159623003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.1	103	98	75-125	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1685324 — 1685325

Parameter	Units	50159750007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.6	5.6	109	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 360955 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

METHOD BLANK: 1667852 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/18/16 03:07	
Boron	ug/L	ND	100	11/18/16 03:07	
Calcium	ug/L	ND	500	11/18/16 03:07	
Cobalt	ug/L	ND	5.0	11/18/16 03:07	
Iron	ug/L	ND	50.0	11/18/16 03:07	
Magnesium	ug/L	ND	500	11/18/16 03:07	
Manganese	ug/L	ND	5.0	11/18/16 03:07	
Nickel	ug/L	ND	10.0	11/18/16 03:07	
Sodium	ug/L	ND	1000	11/18/16 03:07	
Total Hardness by 2340B	ug/L	ND	1000	11/18/16 03:07	
Zinc	ug/L	ND	20.0	11/18/16 03:07	

LABORATORY CONTROL SAMPLE: 1667853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	1060	106	80-120	
Calcium	ug/L	10000	9900	99	80-120	
Cobalt	ug/L	1000	1030	103	80-120	
Iron	ug/L	10000	10200	102	80-120	
Magnesium	ug/L	10000	10300	103	80-120	
Manganese	ug/L	1000	1000	100	80-120	
Nickel	ug/L	1000	1040	104	80-120	
Sodium	ug/L	10000	10000	100	80-120	
Total Hardness by 2340B	ug/L	66200	67100	101	80-120	
Zinc	ug/L	1000	1050	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1667854 1667855

Parameter	Units	50158656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	102	1000	1000	1080	1050	98	95	75-125	2	20	
Boron	ug/L	ND	1000	1000	1100	1070	104	101	75-125	3	20	
Calcium	ug/L	84900	10000	10000	96700	92200	118	73	75-125	5	20	P6
Cobalt	ug/L	ND	1000	1000	971	950	97	95	75-125	2	20	
Iron	ug/L	897	10000	10000	10600	10300	97	94	75-125	3	20	
Magnesium	ug/L	51400	10000	10000	63000	60200	116	88	75-125	5	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1667854 1667855

Parameter	Units	50158656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	26.5	1000	1000	982	958	96	93	75-125	2	20	
Nickel	ug/L	ND	1000	1000	961	941	96	94	75-125	2	20	
Sodium	ug/L	17100	10000	10000	27100	26100	100	90	75-125	4	20	
Total Hardness by 2340B	ug/L	424000	66200	66200	501000	478000	117	83	75-125	5	20	
Zinc	ug/L	ND	1000	1000	997	983	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361309 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

METHOD BLANK: 1670234 — Matrix: Water
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/17/16 10:57	
Boron	ug/L	ND	100	11/17/16 10:57	
Calcium	ug/L	ND	500	11/17/16 10:57	
Cobalt	ug/L	ND	5.0	11/17/16 10:57	
Iron	ug/L	ND	50.0	11/17/16 10:57	
Magnesium	ug/L	ND	500	11/17/16 10:57	
Manganese	ug/L	ND	5.0	11/17/16 10:57	
Nickel	ug/L	ND	10.0	11/17/16 10:57	
Sodium	ug/L	ND	1000	11/17/16 10:57	
Total Hardness by 2340B	ug/L	ND	1000	11/17/16 10:57	
Zinc	ug/L	ND	20.0	11/17/16 10:57	

LABORATORY CONTROL SAMPLE: 1670235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	987	99	80-120	
Boron	ug/L	1000	1030	103	80-120	
Calcium	ug/L	10000	9770	98	80-120	
Cobalt	ug/L	1000	973	97	80-120	
Iron	ug/L	10000	9820	98	80-120	
Magnesium	ug/L	10000	9950	100	80-120	
Manganese	ug/L	1000	947	95	80-120	
Nickel	ug/L	1000	1000	100	80-120	
Sodium	ug/L	10000	9730	97	80-120	
Total Hardness by 2340B	ug/L	66200	65400	99	80-120	
Zinc	ug/L	1000	983	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670236 1670237

Parameter	Units	50158474007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	52.8	1000	1000	1030	1020	98	97	75-125	0	20	
Boron	ug/L	956	1000	1000	2010	2040	105	108	75-125	1	20	
Calcium	ug/L	26700	10000	10000	35900	36200	92	95	75-125	1	20	
Cobalt	ug/L	ND	1000	1000	954	951	95	95	75-125	0	20	
Iron	ug/L	5640	10000	10000	14100	13900	85	83	75-125	2	20	
Magnesium	ug/L	18200	10000	10000	27300	27500	92	93	75-125	1	20	
Manganese	ug/L	164	1000	1000	1090	1090	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670236 1670237

Parameter	Units	50158474007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nickel	ug/L	ND	1000	1000	993	990	97	97	75-125	0	20	
Sodium	ug/L	248000	10000	10000	255000	255000	71	70	75-125	0	20	E,P6
Total Hardness by 2340B	ug/L	142000	66200	66200	202000	204000	92	94	75-125	1	20	
Zinc	ug/L	28.8	1000	1000	1020	1020	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363742 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010

METHOD BLANK: 1680543 Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	12/01/16 09:37	
Boron	ug/L	ND	100	12/01/16 09:37	
Calcium	ug/L	ND	500	12/01/16 09:37	
Cobalt	ug/L	ND	5.0	12/01/16 09:37	
Iron	ug/L	ND	50.0	12/01/16 16:46	
Magnesium	ug/L	ND	500	12/01/16 09:37	
Manganese	ug/L	ND	5.0	12/01/16 09:37	
Nickel	ug/L	ND	10.0	12/01/16 09:37	
Sodium	ug/L	ND	1000	12/01/16 09:37	
Total Hardness by 2340B	ug/L	ND	1000	12/01/16 09:37	
Zinc	ug/L	ND	20.0	12/01/16 09:37	

LABORATORY CONTROL SAMPLE: 1680544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	996	100	80-120	
Boron	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	9990	100	80-120	
Cobalt	ug/L	1000	1000	100	80-120	
Iron	ug/L	10000	10100	101	80-120	
Magnesium	ug/L	10000	9780	98	80-120	
Manganese	ug/L	1000	953	95	80-120	
Nickel	ug/L	1000	991	99	80-120	
Sodium	ug/L	10000	9760	98	80-120	
Total Hardness by 2340B	ug/L	66200	65200	99	80-120	
Zinc	ug/L	1000	977	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680545 1680546

Parameter	Units	50159625001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	1920	1000	1000	2980	2840	107	93	75-125	5	20	
Boron	ug/L	167	1000	1000	1190	1180	102	102	75-125	1	20	
Calcium	ug/L	441000	10000	10000	452000	471000	106	292	75-125	4	20	P6
Cobalt	ug/L	ND	1000	1000	939	942	94	94	75-125	0	20	
Iron	ug/L	138000	10000	10000	151000	146000	130	84	75-125	3	20	P6
Magnesium	ug/L	40500	10000	10000	50600	49200	100	87	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680545 1680546

Parameter	Units	50159625001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	5050	1000	1000	6100	6000	105	95	75-125	2	20	
Nickel	ug/L	14.6	1000	1000	939	943	92	93	75-125	0	20	
Sodium	ug/L	72700	10000	10000	85000	80500	122	78	75-125	5	20	
Total Hardness by 2340B	ug/L	1270000	66200	66200	1340000	1380000	103	165	75-125	3	20	
Zinc	ug/L	ND	1000	1000	947	949	93	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361418 — Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 — Analysis Description: 6020 MET
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019, 50158656020, 50158656021

METHOD BLANK: 1670569 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019, 50158656020, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/17/16 01:31	
Arsenic	ug/L	ND	5.0	11/17/16 01:31	
Beryllium	ug/L	ND	2.0	11/17/16 01:31	
Cadmium	ug/L	ND	0.20	11/17/16 01:31	
Chromium	ug/L	ND	5.0	11/17/16 01:31	
Copper	ug/L	ND	5.0	11/17/16 01:31	
Lead	ug/L	ND	5.0	11/17/16 01:31	
Selenium	ug/L	ND	5.0	11/17/16 01:31	
Silver	ug/L	ND	5.0	11/17/16 01:31	
Thallium	ug/L	ND	2.0	11/17/16 01:31	
Vanadium	ug/L	ND	10.0	11/17/16 01:31	N2

LABORATORY CONTROL SAMPLE: 1670570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.5	106	80-120	
Arsenic	ug/L	40	39.5	99	80-120	
Beryllium	ug/L	40	40.3	101	80-120	
Cadmium	ug/L	40	40.5	101	80-120	
Chromium	ug/L	40	41.8	105	80-120	
Copper	ug/L	40	39.9	100	80-120	
Lead	ug/L	40	41.7	104	80-120	
Selenium	ug/L	40	40.0	100	80-120	
Silver	ug/L	40	40.3	101	80-120	
Thallium	ug/L	40	42.0	105	80-120	
Vanadium	ug/L	40	41.5	104	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670571 1670572

Parameter	Units	50158656003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	44.1	42.9	110	107	75-125	3	20	
Arsenic	ug/L	ND	40	40	40.8	40.9	101	102	75-125	0	20	
Beryllium	ug/L	ND	40	40	43.0	40.8	107	102	75-125	5	20	
Cadmium	ug/L	ND	40	40	41.1	39.5	103	99	75-125	4	20	
Chromium	ug/L	ND	40	40	42.0	41.7	104	103	75-125	1	20	
Copper	ug/L	ND	40	40	37.9	36.6	94	90	75-125	3	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670571 1670572

Parameter	Units	50158656003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	40	40	42.1	40.6	105	101	75-125	4	20	
Selenium	ug/L	ND	40	40	40.4	40.4	99	99	75-125	0	20	
Silver	ug/L	ND	40	40	40.7	39.0	102	97	75-125	4	20	
Thallium	ug/L	ND	40	40	43.0	41.6	107	104	75-125	3	20	
Vanadium	ug/L	ND	40	40	42.1	42.6	105	106	75-125	1	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361921
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 50158656022

METHOD BLANK: 1672392
Matrix: Water
Associated Lab Samples: 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/19/16 02:01	
Arsenic	ug/L	ND	5.0	11/19/16 02:01	
Beryllium	ug/L	ND	2.0	11/19/16 02:01	
Cadmium	ug/L	ND	0.20	11/19/16 02:01	
Chromium	ug/L	ND	5.0	11/19/16 02:01	
Copper	ug/L	ND	5.0	11/19/16 02:01	
Lead	ug/L	ND	5.0	11/19/16 02:01	
Selenium	ug/L	ND	5.0	11/19/16 02:01	
Silver	ug/L	ND	5.0	11/19/16 02:01	
Thallium	ug/L	ND	2.0	11/19/16 02:01	
Vanadium	ug/L	ND	10.0	11/19/16 02:01	N2

LABORATORY CONTROL SAMPLE: 1672393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	39.9	100	80-120	
Arsenic	ug/L	40	37.8	94	80-120	
Beryllium	ug/L	40	37.1	93	80-120	
Cadmium	ug/L	40	38.9	97	80-120	
Chromium	ug/L	40	40.0	100	80-120	
Copper	ug/L	40	39.3	98	80-120	
Lead	ug/L	40	40.1	100	80-120	
Selenium	ug/L	40	37.6	94	80-120	
Silver	ug/L	40	39.4	99	80-120	
Thallium	ug/L	40	41.3	103	80-120	
Vanadium	ug/L	40	39.3	98	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672394 1672395

Parameter	Units	50158899004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<2.0	40	40	41.6	42.2	104	105	75-125	1	20	
Arsenic	ug/L	22.4	40	40	60.0	61.2	94	97	75-125	2	20	
Beryllium	ug/L	<0.40	40	40	37.5	37.4	94	94	75-125	0	20	
Cadmium	ug/L	<0.40	40	40	38.3	38.5	96	96	75-125	1	20	
Chromium	ug/L	<4.0	40	40	38.5	39.9	96	99	75-125	4	20	
Copper	ug/L	<2.0	40	40	38.6	37.1	93	89	75-125	4	20	
Lead	ug/L	<2.0	40	40	39.4	39.4	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1672394 1672395

Parameter	Units	50158899004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	ug/L	<2.0	40	40	38.4	39.0	94	95	75-125	2	20	
Silver	ug/L	<1.0	40	40	38.0	38.4	95	96	75-125	1	20	
Thallium	ug/L	<2.0	40	40	40.2	40.0	100	100	75-125	1	20	
Vanadium	ug/L	<2.0	40	40	39.6	40.2	99	101	75-125	2	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364605 — Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 — Analysis Description: 6020 MET
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010

METHOD BLANK: 1684669 — Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	12/06/16 23:28	
Arsenic	ug/L	ND	5.0	12/06/16 23:28	
Beryllium	ug/L	ND	2.0	12/06/16 23:28	
Cadmium	ug/L	ND	0.20	12/06/16 23:28	
Chromium	ug/L	ND	5.0	12/06/16 23:28	
Copper	ug/L	ND	5.0	12/06/16 23:28	
Lead	ug/L	ND	5.0	12/06/16 23:28	
Selenium	ug/L	ND	5.0	12/06/16 23:28	
Silver	ug/L	ND	5.0	12/06/16 23:28	
Thallium	ug/L	ND	2.0	12/06/16 23:28	
Vanadium	ug/L	ND	10.0	12/06/16 23:28	N2

LABORATORY CONTROL SAMPLE: 1684670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.0	103	80-120	
Arsenic	ug/L	40	37.6	94	80-120	
Beryllium	ug/L	40	40.6	101	80-120	
Cadmium	ug/L	40	40.1	100	80-120	
Chromium	ug/L	40	42.0	105	80-120	
Copper	ug/L	40	40.8	102	80-120	
Lead	ug/L	40	40.8	102	80-120	
Selenium	ug/L	40	38.0	95	80-120	
Silver	ug/L	40	41.1	103	80-120	
Thallium	ug/L	40	39.9	100	80-120	
Vanadium	ug/L	40	41.0	102	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1684671 1684672

Parameter	Units	50160313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	40	40	41.4	41.2	103	103	75-125	1	20	
Arsenic	ug/L	96.2	40	40	133	129	92	83	75-125	3	20	
Beryllium	ug/L	ND	40	40	43.8	43.5	109	109	75-125	1	20	
Cadmium	ug/L	0.26	40	40	41.1	40.1	102	100	75-125	2	20	
Chromium	ug/L	2.1	40	40	44.8	44.3	107	105	75-125	1	20	
Copper	ug/L	3.9	40	40	39.8	38.9	90	87	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1684671 1684672

Parameter	Units	50160313001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	1.8	40	40	44.5	43.7	107	105	75-125	2	20	
Selenium	ug/L	ND	40	40	36.3	35.0	91	87	75-125	4	20	
Silver	ug/L	ND	40	40	41.0	40.1	102	100	75-125	2	20	
Thallium	ug/L	ND	40	40	42.8	41.9	107	105	75-125	2	20	
Vanadium	ug/L	ND	40	40	47.3	45.8	111	107	75-125	3	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361801 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656005, 50158656006

METHOD BLANK: 1671994 Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656005, 50158656006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,1-Dichloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,1-Dichloroethene	ug/L	ND	5.0	11/16/16 02:30	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/16/16 02:30	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/16/16 02:30	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/16/16 02:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/16/16 02:30	
1,2-Dichloroethane	ug/L	ND	5.0	11/16/16 02:30	
1,2-Dichloropropane	ug/L	ND	5.0	11/16/16 02:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/16/16 02:30	
2-Butanone (MEK)	ug/L	ND	10.0	11/16/16 02:30	
2-Hexanone	ug/L	ND	10.0	11/16/16 02:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/16/16 02:30	
Acetone	ug/L	ND	10.0	11/16/16 02:30	
Acrylonitrile	ug/L	ND	100	11/16/16 02:30	
Benzene	ug/L	ND	5.0	11/16/16 02:30	
Bromochloromethane	ug/L	ND	5.0	11/16/16 02:30	
Bromodichloromethane	ug/L	ND	5.0	11/16/16 02:30	
Bromoform	ug/L	ND	5.0	11/16/16 02:30	
Bromomethane	ug/L	ND	10.0	11/16/16 02:30	
Carbon disulfide	ug/L	ND	10.0	11/16/16 02:30	
Carbon tetrachloride	ug/L	ND	5.0	11/16/16 02:30	
Chlorobenzene	ug/L	ND	5.0	11/16/16 02:30	
Chloroethane	ug/L	ND	10.0	11/16/16 02:30	
Chloroform	ug/L	ND	5.0	11/16/16 02:30	
Chloromethane	ug/L	ND	10.0	11/16/16 02:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 02:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 02:30	
Dibromochloromethane	ug/L	ND	5.0	11/16/16 02:30	
Dibromomethane	ug/L	ND	10.0	11/16/16 02:30	
Ethylbenzene	ug/L	ND	5.0	11/16/16 02:30	
Iodomethane	ug/L	ND	5.0	11/16/16 02:30	
Methylene Chloride	ug/L	ND	5.0	11/16/16 02:30	
Styrene	ug/L	ND	5.0	11/16/16 02:30	
Tetrachloroethene	ug/L	ND	5.0	11/16/16 02:30	
Toluene	ug/L	ND	5.0	11/16/16 02:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 02:30	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 02:30	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1671994 Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656005, 50158656006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/16/16 02:30	
Trichloroethene	ug/L	ND	5.0	11/16/16 02:30	
Trichlorofluoromethane	ug/L	ND	10.0	11/16/16 02:30	
Vinyl acetate	ug/L	ND	10.0	11/16/16 02:30	
Vinyl chloride	ug/L	ND	2.0	11/16/16 02:30	
Xylene (Total)	ug/L	ND	5.0	11/16/16 02:30	
4-Bromofluorobenzene (S)	%.	99	79-116	11/16/16 02:30	
Dibromofluoromethane (S)	%.	98	84-118	11/16/16 02:30	
Toluene-d8 (S)	%.	108	86-110	11/16/16 02:30	

LABORATORY CONTROL SAMPLE: 1671995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.6	103	74-130	
1,1,1-Trichloroethane	ug/L	50	48.5	97	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	55.4	111	72-124	
1,1,2-Trichloroethane	ug/L	50	55.0	110	75-125	
1,1-Dichloroethane	ug/L	50	47.4	95	70-120	
1,1-Dichloroethene	ug/L	50	45.5	91	69-127	
1,2,3-Trichloropropane	ug/L	50	55.9	112	77-127	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	59.5	119	76-125	
1,2-Dichlorobenzene	ug/L	50	51.4	103	77-122	
1,2-Dichloroethane	ug/L	50	45.1	90	70-123	
1,2-Dichloropropane	ug/L	50	51.5	103	77-124	
1,4-Dichlorobenzene	ug/L	50	51.0	102	75-117	
2-Butanone (MEK)	ug/L	250	250	100	60-135	
2-Hexanone	ug/L	250	317	127	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	313	125	66-134	
Acetone	ug/L	250	245	98	47-144	
Acrylonitrile	ug/L	200	196	98	64-133	
Benzene	ug/L	50	49.3	99	76-122	
Bromochloromethane	ug/L	50	51.2	102	74-134	
Bromodichloromethane	ug/L	50	49.9	100	71-124	
Bromoform	ug/L	50	51.4	103	60-125	
Bromomethane	ug/L	50	35.7	71	23-194	
Carbon disulfide	ug/L	50	46.7	93	63-130	
Carbon tetrachloride	ug/L	50	51.5	103	73-133	
Chlorobenzene	ug/L	50	49.1	98	76-118	
Chloroethane	ug/L	50	50.3	101	50-147	
Chloroform	ug/L	50	47.2	94	70-119	
Chloromethane	ug/L	50	36.4	73	52-136	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	74-120	
cis-1,3-Dichloropropene	ug/L	50	53.2	106	71-134	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1671995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	62.3	125	73-127	
Dibromomethane	ug/L	50	48.7	97	75-124	
Ethylbenzene	ug/L	50	57.9	116	75-123	
Iodomethane	ug/L	100	73.4	73	56-142	
Methylene Chloride	ug/L	50	50.1	100	66-130	
Styrene	ug/L	50	58.8	118	78-128	
Tetrachloroethene	ug/L	50	52.1	104	69-119	
Toluene	ug/L	50	52.5	105	74-122	
trans-1,2-Dichloroethene	ug/L	50	45.5	91	72-122	
trans-1,3-Dichloropropene	ug/L	50	63.6	127	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	193	96	39-153	
Trichloroethene	ug/L	50	46.0	92	75-123	
Trichlorofluoromethane	ug/L	50	48.8	98	58-148	
Vinyl acetate	ug/L	200	233	116	67-154	
Vinyl chloride	ug/L	50	43.1	86	61-147	
Xylene (Total)	ug/L	150	171	114	75-127	
4-Bromofluorobenzene (S)	%.			103	79-116	
Dibromofluoromethane (S)	%.			96	84-118	
Toluene-d8 (S)	%.			110	86-110	

MATRIX SPIKE SAMPLE: 1671997

Parameter	Units	50158656006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.7	95	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	51.4	103	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	55.0	110	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	50.6	101	51-138	
1,1-Dichloroethane	ug/L	ND	50	49.5	99	48-137	
1,1-Dichloroethene	ug/L	ND	50	48.5	97	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	55.1	110	51-139	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.8	102	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	57.0	114	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	51.7	103	38-138	
1,2-Dichloroethane	ug/L	ND	50	45.3	91	44-144	
1,2-Dichloropropane	ug/L	ND	50	50.1	100	56-138	
1,4-Dichlorobenzene	ug/L	ND	50	51.3	103	34-134	
2-Butanone (MEK)	ug/L	ND	250	245	98	44-142	
2-Hexanone	ug/L	ND	250	301	120	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	294	118	46-143	
Acetone	ug/L	ND	250	241	96	33-150	
Acrylonitrile	ug/L	ND	200	201	100	47-143	
Benzene	ug/L	ND	50	49.5	99	51-140	
Bromochloromethane	ug/L	ND	50	51.0	102	53-148	
Bromodichloromethane	ug/L	ND	50	49.9	100	46-137	
Bromoform	ug/L	ND	50	49.7	99	36-127	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1671997

Parameter	Units	50158656006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	50	20.8	42	10-188	
Carbon disulfide	ug/L	ND	50	48.8	98	35-148	
Carbon tetrachloride	ug/L	ND	50	52.3	105	45-151	
Chlorobenzene	ug/L	ND	50	47.8	96	45-138	
Chloroethane	ug/L	ND	50	54.5	109	33-164	
Chloroform	ug/L	ND	50	47.3	95	50-135	
Chloromethane	ug/L	ND	50	37.8	76	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	49.0	98	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	48.5	97	42-136	
Dibromochloromethane	ug/L	ND	50	57.3	115	45-136	
Dibromomethane	ug/L	ND	50	49.8	100	51-139	
Ethylbenzene	ug/L	ND	50	55.0	110	36-146	
Iodomethane	ug/L	ND	100	39.5	40	28-153	
Methylene Chloride	ug/L	ND	50	53.1	106	48-140	
Styrene	ug/L	ND	50	56.3	113	31-148	
Tetrachloroethene	ug/L	ND	50	51.2	102	38-139	
Toluene	ug/L	ND	50	50.8	102	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	48.5	97	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	56.5	113	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	165	83	10-157	
Trichloroethene	ug/L	ND	50	46.9	94	44-146	
Trichlorofluoromethane	ug/L	ND	50	53.6	107	41-164	
Vinyl acetate	ug/L	ND	200	179	89	15-146	
Vinyl chloride	ug/L	ND	50	46.1	92	43-166	
Xylene (Total)	ug/L	ND	150	163	109	35-146	
4-Bromofluorobenzene (S)	%.				99	79-116	
Dibromofluoromethane (S)	%.				98	84-118	
Toluene-d8 (S)	%.				108	86-110	

SAMPLE DUPLICATE: 1671996

Parameter	Units	50158656003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

SAMPLE DUPLICATE: 1671996

Parameter	Units	50158656003 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	100	101	0		
Dibromofluoromethane (S)	%.	103	103	1		
Toluene-d8 (S)	%.	106	106	0		

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361802 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Associated Lab Samples: 50158656004, 50158656008

METHOD BLANK: 1671998 — Matrix: Water
Associated Lab Samples: 50158656004, 50158656008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,1-Dichloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,1-Dichloroethene	ug/L	ND	5.0	11/16/16 14:19	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/16/16 14:19	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/16/16 14:19	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/16/16 14:19	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/16/16 14:19	
1,2-Dichloroethane	ug/L	ND	5.0	11/16/16 14:19	
1,2-Dichloropropane	ug/L	ND	5.0	11/16/16 14:19	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/16/16 14:19	
2-Butanone (MEK)	ug/L	ND	10.0	11/16/16 14:19	
2-Hexanone	ug/L	ND	10.0	11/16/16 14:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/16/16 14:19	
Acetone	ug/L	ND	10.0	11/16/16 14:19	
Acrylonitrile	ug/L	ND	100	11/16/16 14:19	
Benzene	ug/L	ND	5.0	11/16/16 14:19	
Bromochloromethane	ug/L	ND	5.0	11/16/16 14:19	
Bromodichloromethane	ug/L	ND	5.0	11/16/16 14:19	
Bromoform	ug/L	ND	5.0	11/16/16 14:19	
Bromomethane	ug/L	ND	10.0	11/16/16 14:19	
Carbon disulfide	ug/L	ND	10.0	11/16/16 14:19	
Carbon tetrachloride	ug/L	ND	5.0	11/16/16 14:19	
Chlorobenzene	ug/L	ND	5.0	11/16/16 14:19	
Chloroethane	ug/L	ND	10.0	11/16/16 14:19	
Chloroform	ug/L	ND	5.0	11/16/16 14:19	
Chloromethane	ug/L	ND	10.0	11/16/16 14:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 14:19	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 14:19	
Dibromochloromethane	ug/L	ND	5.0	11/16/16 14:19	
Dibromomethane	ug/L	ND	10.0	11/16/16 14:19	
Ethylbenzene	ug/L	ND	5.0	11/16/16 14:19	
Iodomethane	ug/L	ND	5.0	11/16/16 14:19	
Methylene Chloride	ug/L	6.4	5.0	11/16/16 14:19	C9
Styrene	ug/L	ND	5.0	11/16/16 14:19	
Tetrachloroethene	ug/L	ND	5.0	11/16/16 14:19	
Toluene	ug/L	ND	5.0	11/16/16 14:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 14:19	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 14:19	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1671998 Matrix: Water
Associated Lab Samples: 50158656004, 50158656008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/16/16 14:19	
Trichloroethene	ug/L	ND	5.0	11/16/16 14:19	
Trichlorofluoromethane	ug/L	ND	10.0	11/16/16 14:19	
Vinyl acetate	ug/L	ND	10.0	11/16/16 14:19	
Vinyl chloride	ug/L	ND	2.0	11/16/16 14:19	
Xylene (Total)	ug/L	ND	5.0	11/16/16 14:19	
4-Bromofluorobenzene (S)	%.	96	79-116	11/16/16 14:19	
Dibromofluoromethane (S)	%.	97	84-118	11/16/16 14:19	
Toluene-d8 (S)	%.	111	86-110	11/16/16 14:19	S0

LABORATORY CONTROL SAMPLE: 1671999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.9	112	74-130	
1,1,1-Trichloroethane	ug/L	50	48.9	98	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	54.1	108	72-124	
1,1,2-Trichloroethane	ug/L	50	50.9	102	75-125	
1,1-Dichloroethane	ug/L	50	47.4	95	70-120	
1,1-Dichloroethene	ug/L	50	45.8	92	69-127	
1,2,3-Trichloropropane	ug/L	50	55.4	111	77-127	
1,2-Dibromo-3-chloropropane	ug/L	50	47.1	94	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	76-125	
1,2-Dichlorobenzene	ug/L	50	52.2	104	77-122	
1,2-Dichloroethane	ug/L	50	46.6	93	70-123	
1,2-Dichloropropane	ug/L	50	51.4	103	77-124	
1,4-Dichlorobenzene	ug/L	50	47.6	95	75-117	
2-Butanone (MEK)	ug/L	250	207	83	60-135	
2-Hexanone	ug/L	250	274	110	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	263	105	66-134	
Acetone	ug/L	250	283	113	47-144	
Acrylonitrile	ug/L	200	173	86	64-133	
Benzene	ug/L	50	46.6	93	76-122	
Bromochloromethane	ug/L	50	48.6	97	74-134	
Bromodichloromethane	ug/L	50	51.7	103	71-124	
Bromoform	ug/L	50	50.7	101	60-125	
Bromomethane	ug/L	50	53.5	107	23-194	
Carbon disulfide	ug/L	50	44.9	90	63-130	
Carbon tetrachloride	ug/L	50	47.1	94	73-133	
Chlorobenzene	ug/L	50	46.8	94	76-118	
Chloroethane	ug/L	50	40.9	82	50-147	
Chloroform	ug/L	50	48.6	97	70-119	
Chloromethane	ug/L	50	37.5	75	52-136	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	74-120	
cis-1,3-Dichloropropene	ug/L	50	56.7	113	71-134	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1671999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	51.0	102	73-127	
Dibromomethane	ug/L	50	46.6	93	75-124	
Ethylbenzene	ug/L	50	49.3	99	75-123	
Iodomethane	ug/L	100	93.4	93	56-142	
Methylene Chloride	ug/L	50	49.8	100	66-130	
Styrene	ug/L	50	57.0	114	78-128	
Tetrachloroethene	ug/L	50	47.1	94	69-119	
Toluene	ug/L	50	52.0	104	74-122	
trans-1,2-Dichloroethene	ug/L	50	47.0	94	72-122	
trans-1,3-Dichloropropene	ug/L	50	58.9	118	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	176	88	39-153	
Trichloroethene	ug/L	50	45.2	90	75-123	
Trichlorofluoromethane	ug/L	50	44.6	89	58-148	
Vinyl acetate	ug/L	200	213	106	67-154	
Vinyl chloride	ug/L	50	41.6	83	61-147	
Xylene (Total)	ug/L	150	161	108	75-127	
4-Bromofluorobenzene (S)	%.			102	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			107	86-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361803
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50158656010, 50158656012

METHOD BLANK: 1672002
Matrix: Water
Associated Lab Samples: 50158656010, 50158656012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,1-Dichloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,1-Dichloroethene	ug/L	ND	5.0	11/16/16 14:35	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/16/16 14:35	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/16/16 14:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/16/16 14:35	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/16/16 14:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/16/16 14:35	
1,2-Dichloroethane	ug/L	ND	5.0	11/16/16 14:35	
1,2-Dichloropropane	ug/L	ND	5.0	11/16/16 14:35	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/16/16 14:35	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/16/16 14:35	
2-Butanone (MEK)	ug/L	ND	10.0	11/16/16 14:35	
2-Hexanone	ug/L	ND	10.0	11/16/16 14:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/16/16 14:35	
Acetone	ug/L	ND	10.0	11/16/16 14:35	
Acrylonitrile	ug/L	ND	100	11/16/16 14:35	
Benzene	ug/L	ND	5.0	11/16/16 14:35	
Bromochloromethane	ug/L	ND	5.0	11/16/16 14:35	
Bromodichloromethane	ug/L	ND	5.0	11/16/16 14:35	
Bromoform	ug/L	ND	5.0	11/16/16 14:35	
Bromomethane	ug/L	ND	10.0	11/16/16 14:35	
Carbon disulfide	ug/L	ND	10.0	11/16/16 14:35	
Carbon tetrachloride	ug/L	ND	5.0	11/16/16 14:35	
Chlorobenzene	ug/L	ND	5.0	11/16/16 14:35	
Chloroethane	ug/L	ND	10.0	11/16/16 14:35	
Chloroform	ug/L	ND	5.0	11/16/16 14:35	
Chloromethane	ug/L	ND	10.0	11/16/16 14:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 14:35	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 14:35	
Dibromochloromethane	ug/L	ND	5.0	11/16/16 14:35	
Dibromomethane	ug/L	ND	10.0	11/16/16 14:35	
Ethylbenzene	ug/L	ND	5.0	11/16/16 14:35	
Iodomethane	ug/L	ND	5.0	11/16/16 14:35	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/16/16 14:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/16/16 14:35	
Methylene Chloride	ug/L	ND	5.0	11/16/16 14:35	
n-Butyl chloride	ug/L	ND	5.0	11/16/16 14:35	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1672002 Matrix: Water
Associated Lab Samples: 50158656010, 50158656012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropyltoluene	ug/L	ND	5.0	11/16/16 14:35	
Styrene	ug/L	ND	5.0	11/16/16 14:35	
Tetrachloroethene	ug/L	ND	5.0	11/16/16 14:35	
Tetrahydrofuran	ug/L	ND	100	11/16/16 14:35	N2
Toluene	ug/L	ND	5.0	11/16/16 14:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/16/16 14:35	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/16/16 14:35	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/16/16 14:35	
Trichloroethene	ug/L	ND	5.0	11/16/16 14:35	
Trichlorofluoromethane	ug/L	ND	10.0	11/16/16 14:35	
Vinyl acetate	ug/L	ND	10.0	11/16/16 14:35	
Vinyl chloride	ug/L	ND	2.0	11/16/16 14:35	
Xylene (Total)	ug/L	ND	5.0	11/16/16 14:35	
4-Bromofluorobenzene (S)	%.	98	79-116	11/16/16 14:35	
Dibromofluoromethane (S)	%.	101	84-118	11/16/16 14:35	
Toluene-d8 (S)	%.	104	86-110	11/16/16 14:35	

LABORATORY CONTROL SAMPLE: 1672003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.4	101	74-130	
1,1,1-Trichloroethane	ug/L	50	50.9	102	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	56.4	113	72-124	
1,1,2-Trichloroethane	ug/L	50	55.0	110	75-125	
1,1-Dichloroethane	ug/L	50	50.3	101	70-120	
1,1-Dichloroethene	ug/L	50	47.8	96	69-127	
1,2,3-Trichloropropane	ug/L	50	56.7	113	77-127	
1,2,4-Trimethylbenzene	ug/L	50	56.8	114	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	58.9	118	76-125	
1,2-Dichlorobenzene	ug/L	50	52.9	106	77-122	
1,2-Dichloroethane	ug/L	50	47.1	94	70-123	
1,2-Dichloropropane	ug/L	50	50.9	102	77-124	
1,3,5-Trimethylbenzene	ug/L	50	57.4	115	75-124	
1,4-Dichlorobenzene	ug/L	50	52.3	105	75-117	
2-Butanone (MEK)	ug/L	250	257	103	60-135	
2-Hexanone	ug/L	250	307	123	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	304	122	66-134	
Acetone	ug/L	250	241	97	47-144	
Acrylonitrile	ug/L	200	211	105	64-133	
Benzene	ug/L	50	51.1	102	76-122	
Bromochloromethane	ug/L	50	53.4	107	74-134	
Bromodichloromethane	ug/L	50	52.9	106	71-124	
Bromoform	ug/L	50	51.3	103	60-125	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1672003

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	33.6	67	23-194	
Carbon disulfide	ug/L	50	48.8	98	63-130	
Carbon tetrachloride	ug/L	50	52.8	106	73-133	
Chlorobenzene	ug/L	50	48.2	96	76-118	
Chloroethane	ug/L	50	51.5	103	50-147	
Chloroform	ug/L	50	49.3	99	70-119	
Chloromethane	ug/L	50	37.1	74	52-136	
cis-1,2-Dichloroethene	ug/L	50	48.5	97	74-120	
cis-1,3-Dichloropropene	ug/L	50	50.3	101	71-134	
Dibromochloromethane	ug/L	50	61.0	122	73-127	
Dibromomethane	ug/L	50	51.5	103	75-124	
Ethylbenzene	ug/L	50	56.4	113	75-123	
Iodomethane	ug/L	100	64.9	65	56-142	
Isopropylbenzene (Cumene)	ug/L	50	55.7	111	84-134	
Methyl-tert-butyl ether	ug/L	50	54.5	109	65-131	
Methylene Chloride	ug/L	50	54.4	109	66-130	
n-Butyl chloride	ug/L	50	51.9	104	70-130	N2
p-Isopropyltoluene	ug/L	50	56.3	113	75-124	
Styrene	ug/L	50	59.2	118	78-128	
Tetrachloroethene	ug/L	50	51.0	102	69-119	
Tetrahydrofuran	ug/L	50	50.8J	102	50-150	N2
Toluene	ug/L	50	50.5	101	74-122	
trans-1,2-Dichloroethene	ug/L	50	47.1	94	72-122	
trans-1,3-Dichloropropene	ug/L	50	60.8	122	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	169	84	39-153	
Trichloroethene	ug/L	50	47.8	96	75-123	
Trichlorofluoromethane	ug/L	50	51.4	103	58-148	
Vinyl acetate	ug/L	200	247	124	67-154	
Vinyl chloride	ug/L	50	44.0	88	61-147	
Xylene (Total)	ug/L	150	165	110	75-127	
4-Bromofluorobenzene (S)	%.			98	79-116	
Dibromofluoromethane (S)	%.			96	84-118	
Toluene-d8 (S)	%.			103	86-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362376 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50158656011, 50158656018, 50158656019

METHOD BLANK: 1674753 | Matrix: Water
Associated Lab Samples: 50158656011, 50158656018, 50158656019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,1-Dichloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,1-Dichloroethene	ug/L	ND	5.0	11/18/16 01:59	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/18/16 01:59	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/18/16 01:59	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/18/16 01:59	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/18/16 01:59	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/18/16 01:59	
1,2-Dichloroethane	ug/L	ND	5.0	11/18/16 01:59	
1,2-Dichloropropane	ug/L	ND	5.0	11/18/16 01:59	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/18/16 01:59	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/18/16 01:59	
2-Butanone (MEK)	ug/L	ND	10.0	11/18/16 01:59	
2-Hexanone	ug/L	ND	10.0	11/18/16 01:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/18/16 01:59	
Acetone	ug/L	ND	10.0	11/18/16 01:59	
Acrylonitrile	ug/L	ND	100	11/18/16 01:59	
Benzene	ug/L	ND	5.0	11/18/16 01:59	
Bromochloromethane	ug/L	ND	5.0	11/18/16 01:59	
Bromodichloromethane	ug/L	ND	5.0	11/18/16 01:59	
Bromoform	ug/L	ND	5.0	11/18/16 01:59	
Bromomethane	ug/L	ND	10.0	11/18/16 01:59	
Carbon disulfide	ug/L	ND	10.0	11/18/16 01:59	
Carbon tetrachloride	ug/L	ND	5.0	11/18/16 01:59	
Chlorobenzene	ug/L	ND	5.0	11/18/16 01:59	
Chloroethane	ug/L	ND	10.0	11/18/16 01:59	
Chloroform	ug/L	ND	5.0	11/18/16 01:59	
Chloromethane	ug/L	ND	10.0	11/18/16 01:59	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/18/16 01:59	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/18/16 01:59	
Dibromochloromethane	ug/L	ND	5.0	11/18/16 01:59	
Dibromomethane	ug/L	ND	10.0	11/18/16 01:59	
Ethylbenzene	ug/L	ND	5.0	11/18/16 01:59	
Iodomethane	ug/L	ND	5.0	11/18/16 01:59	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/18/16 01:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/18/16 01:59	
Methylene Chloride	ug/L	ND	5.0	11/18/16 01:59	
n-Butyl chloride	ug/L	ND	5.0	11/18/16 01:59	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1674753 Matrix: Water
Associated Lab Samples: 50158656011, 50158656018, 50158656019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	ND	5.0	11/18/16 01:59	
Styrene	ug/L	ND	5.0	11/18/16 01:59	
Tetrachloroethene	ug/L	ND	5.0	11/18/16 01:59	
Tetrahydrofuran	ug/L	ND	100	11/18/16 01:59	N2
Toluene	ug/L	ND	5.0	11/18/16 01:59	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/18/16 01:59	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/18/16 01:59	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/18/16 01:59	
Trichloroethene	ug/L	ND	5.0	11/18/16 01:59	
Trichlorofluoromethane	ug/L	ND	10.0	11/18/16 01:59	
Vinyl acetate	ug/L	ND	10.0	11/18/16 01:59	
Vinyl chloride	ug/L	ND	2.0	11/18/16 01:59	
Xylene (Total)	ug/L	ND	5.0	11/18/16 01:59	
4-Bromofluorobenzene (S)	%.	102	79-116	11/18/16 01:59	
Dibromofluoromethane (S)	%.	98	84-118	11/18/16 01:59	
Toluene-d8 (S)	%.	99	86-110	11/18/16 01:59	

LABORATORY CONTROL SAMPLE: 1674754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.5	111	74-130	
1,1,1-Trichloroethane	ug/L	50	49.5	99	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	53.8	108	72-124	
1,1,2-Trichloroethane	ug/L	50	50.0	100	75-125	
1,1-Dichloroethane	ug/L	50	51.9	104	70-120	
1,1-Dichloroethene	ug/L	50	47.1	94	69-127	
1,2,3-Trichloropropane	ug/L	50	50.4	101	77-127	
1,2,4-Trimethylbenzene	ug/L	50	50.0	100	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	60.6	121	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	76-125	
1,2-Dichlorobenzene	ug/L	50	50.7	101	77-122	
1,2-Dichloroethane	ug/L	50	48.0	96	70-123	
1,2-Dichloropropane	ug/L	50	50.6	101	77-124	
1,3,5-Trimethylbenzene	ug/L	50	51.7	103	75-124	
1,4-Dichlorobenzene	ug/L	50	47.5	95	75-117	
2-Butanone (MEK)	ug/L	250	293	117	60-135	
2-Hexanone	ug/L	250	301	120	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	280	112	66-134	
Acetone	ug/L	250	291	116	47-144	
Acrylonitrile	ug/L	200	197	99	64-133	
Benzene	ug/L	50	47.8	96	76-122	
Bromochloromethane	ug/L	50	51.5	103	74-134	
Bromodichloromethane	ug/L	50	52.5	105	71-124	
Bromoform	ug/L	50	47.4	95	60-125	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1674754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	63.2	126	23-194	
Carbon disulfide	ug/L	50	51.1	102	63-130	
Carbon tetrachloride	ug/L	50	51.2	102	73-133	
Chlorobenzene	ug/L	50	47.6	95	76-118	
Chloroethane	ug/L	50	51.3	103	50-147	
Chloroform	ug/L	50	50.3	101	70-119	
Chloromethane	ug/L	50	56.1	112	52-136	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	74-120	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	71-134	
Dibromochloromethane	ug/L	50	56.1	112	73-127	
Dibromomethane	ug/L	50	52.0	104	75-124	
Ethylbenzene	ug/L	50	52.4	105	75-123	
Iodomethane	ug/L	100	129	129	56-142	
Isopropylbenzene (Cumene)	ug/L	50	52.1	104	84-134	
Methyl-tert-butyl ether	ug/L	50	52.2	104	65-131	
Methylene Chloride	ug/L	50	53.4	107	66-130	
n-Butyl chloride	ug/L	50	51.4	103	70-130	N2
p-Isopropyltoluene	ug/L	50	51.8	104	75-124	
Styrene	ug/L	50	55.9	112	78-128	
Tetrachloroethene	ug/L	50	47.9	96	69-119	
Tetrahydrofuran	ug/L	50	50.2J	100	50-150	N2
Toluene	ug/L	50	45.7	91	74-122	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	72-122	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	202	101	39-153	
Trichloroethene	ug/L	50	47.9	96	75-123	
Trichlorofluoromethane	ug/L	50	54.0	108	58-148	
Vinyl acetate	ug/L	200	245	123	67-154	
Vinyl chloride	ug/L	50	55.5	111	61-147	
Xylene (Total)	ug/L	150	150	100	75-127	
4-Bromofluorobenzene (S)	%.			100	79-116	
Dibromofluoromethane (S)	%.			99	84-118	
Toluene-d8 (S)	%.			98	86-110	

MATRIX SPIKE SAMPLE: 1674756

Parameter	Units	50158656019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	49.1	98	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	44.7	89	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.9	94	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	45.1	90	51-138	
1,1-Dichloroethane	ug/L	ND	50	45.6	91	48-137	
1,1-Dichloroethene	ug/L	ND	50	42.8	86	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	44.4	89	51-139	
1,2,4-Trimethylbenzene	ug/L	ND	50	43.3	87	32-143	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1674756

Parameter	Units	50158656019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50.8	102	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	46.8	94	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	45.7	91	38-138	
1,2-Dichloroethane	ug/L	ND	50	42.4	85	44-144	
1,2-Dichloropropane	ug/L	ND	50	46.1	92	56-138	
1,3,5-Trimethylbenzene	ug/L	ND	50	45.8	92	28-146	
1,4-Dichlorobenzene	ug/L	ND	50	40.7	81	34-134	
2-Butanone (MEK)	ug/L	ND	250	251	101	44-142	
2-Hexanone	ug/L	ND	250	280	112	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	254	102	46-143	
Acetone	ug/L	ND	250	249	100	33-150	
Acrylonitrile	ug/L	ND	200	181	90	47-143	
Benzene	ug/L	ND	50	43.5	87	51-140	
Bromochloromethane	ug/L	ND	50	43.5	87	53-148	
Bromodichloromethane	ug/L	ND	50	48.4	97	46-137	
Bromoform	ug/L	ND	50	40.1	80	36-127	
Bromomethane	ug/L	ND	50	24.5	49	10-188	
Carbon disulfide	ug/L	ND	50	38.4	77	35-148	
Carbon tetrachloride	ug/L	ND	50	48.3	97	45-151	
Chlorobenzene	ug/L	ND	50	42.6	85	45-138	
Chloroethane	ug/L	ND	50	43.8	88	33-164	
Chloroform	ug/L	ND	50	45.3	91	50-135	
Chloromethane	ug/L	ND	50	37.4	75	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	45.3	91	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	39.7	79	42-136	
Dibromochloromethane	ug/L	ND	50	48.2	96	45-136	
Dibromomethane	ug/L	ND	50	46.8	94	51-139	
Ethylbenzene	ug/L	ND	50	47.3	95	36-146	
Iodomethane	ug/L	ND	100	52.7	53	28-153	
Isopropylbenzene (Cumene)	ug/L	ND	50	47.5	95	43-159	
Methyl-tert-butyl ether	ug/L	ND	50	46.5	93	43-146	
Methylene Chloride	ug/L	ND	50	46.6	93	48-140	
n-Butyl chloride	ug/L	ND	50	46.2	92	70-130	N2
p-Isopropyltoluene	ug/L	ND	50	45.0	90	21-151	
Styrene	ug/L	ND	50	46.8	94	31-148	
Tetrachloroethene	ug/L	ND	50	41.8	84	38-139	
Tetrahydrofuran	ug/L	ND	50	45.9J	92	50-150	N2
Toluene	ug/L	ND	50	41.7	83	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	43.9	88	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	42.5	85	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	89.6	45	10-157	
Trichloroethene	ug/L	ND	50	43.4	87	44-146	
Trichlorofluoromethane	ug/L	ND	50	48.2	96	41-164	
Vinyl acetate	ug/L	ND	200	68.6	34	15-146	
Vinyl chloride	ug/L	ND	50	42.8	86	43-166	
Xylene (Total)	ug/L	ND	150	135	90	35-146	
4-Bromofluorobenzene (S)	%.				102	79-116	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1674756

Parameter	Units	50158656019 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.				101	84-118	
Toluene-d8 (S)	%.				97	86-110	

SAMPLE DUPLICATE: 1674755

Parameter	Units	50158656018 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

SAMPLE DUPLICATE: 1674755

Parameter	Units	50158656018 Result	Dup Result	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	ND	ND		20	
n-Butyl chloride	ug/L	ND	ND		20	N2
p-Isopropyltoluene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Tetrahydrofuran	ug/L	ND	ND		20	N2
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	102	98	4		
Dibromofluoromethane (S)	%.	101	100	1		
Toluene-d8 (S)	%.	98	98	1		

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362379 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50158656020, 50158656021

METHOD BLANK: 1674761 | Matrix: Water
Associated Lab Samples: 50158656020, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,1-Dichloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,1-Dichloroethene	ug/L	ND	5.0	11/18/16 01:10	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/18/16 01:10	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/18/16 01:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/18/16 01:10	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/18/16 01:10	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/18/16 01:10	
1,2-Dichloroethane	ug/L	ND	5.0	11/18/16 01:10	
1,2-Dichloropropane	ug/L	ND	5.0	11/18/16 01:10	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/18/16 01:10	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/18/16 01:10	
2-Butanone (MEK)	ug/L	ND	10.0	11/18/16 01:10	
2-Hexanone	ug/L	ND	10.0	11/18/16 01:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/18/16 01:10	
Acetone	ug/L	ND	10.0	11/18/16 01:10	
Acrylonitrile	ug/L	ND	100	11/18/16 01:10	
Benzene	ug/L	ND	5.0	11/18/16 01:10	
Bromochloromethane	ug/L	ND	5.0	11/18/16 01:10	
Bromodichloromethane	ug/L	ND	5.0	11/18/16 01:10	
Bromoform	ug/L	ND	5.0	11/18/16 01:10	
Bromomethane	ug/L	ND	10.0	11/18/16 01:10	
Carbon disulfide	ug/L	ND	10.0	11/18/16 01:10	
Carbon tetrachloride	ug/L	ND	5.0	11/18/16 01:10	
Chlorobenzene	ug/L	ND	5.0	11/18/16 01:10	
Chloroethane	ug/L	ND	10.0	11/18/16 01:10	
Chloroform	ug/L	ND	5.0	11/18/16 01:10	
Chloromethane	ug/L	ND	10.0	11/18/16 01:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/18/16 01:10	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/18/16 01:10	
Dibromochloromethane	ug/L	ND	5.0	11/18/16 01:10	
Dibromomethane	ug/L	ND	10.0	11/18/16 01:10	
Ethylbenzene	ug/L	ND	5.0	11/18/16 01:10	
Iodomethane	ug/L	ND	5.0	11/18/16 01:10	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/18/16 01:10	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/18/16 01:10	
Methylene Chloride	ug/L	ND	5.0	11/18/16 01:10	
n-Butyl chloride	ug/L	ND	5.0	11/18/16 01:10	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1674761 Matrix: Water
Associated Lab Samples: 50158656020, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	ND	5.0	11/18/16 01:10	
Styrene	ug/L	ND	5.0	11/18/16 01:10	
Tetrachloroethene	ug/L	ND	5.0	11/18/16 01:10	
Tetrahydrofuran	ug/L	ND	100	11/18/16 01:10	N2
Toluene	ug/L	ND	5.0	11/18/16 01:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/18/16 01:10	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/18/16 01:10	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/18/16 01:10	
Trichloroethene	ug/L	ND	5.0	11/18/16 01:10	
Trichlorofluoromethane	ug/L	ND	10.0	11/18/16 01:10	
Vinyl acetate	ug/L	ND	10.0	11/18/16 01:10	
Vinyl chloride	ug/L	ND	2.0	11/18/16 01:10	
Xylene (Total)	ug/L	ND	5.0	11/18/16 01:10	
4-Bromofluorobenzene (S)	%.	98	79-116	11/18/16 01:10	
Dibromofluoromethane (S)	%.	105	84-118	11/18/16 01:10	
Toluene-d8 (S)	%.	100	86-110	11/18/16 01:10	

LABORATORY CONTROL SAMPLE: 1674762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.4	109	74-130	
1,1,1-Trichloroethane	ug/L	50	49.4	99	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	52.4	105	72-124	
1,1,2-Trichloroethane	ug/L	50	55.1	110	75-125	
1,1-Dichloroethane	ug/L	50	47.6	95	70-120	
1,1-Dichloroethene	ug/L	50	49.7	99	69-127	
1,2,3-Trichloropropane	ug/L	50	51.7	103	77-127	
1,2,4-Trimethylbenzene	ug/L	50	55.1	110	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	60.0	120	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.1	104	76-125	
1,2-Dichlorobenzene	ug/L	50	51.8	104	77-122	
1,2-Dichloroethane	ug/L	50	45.5	91	70-123	
1,2-Dichloropropane	ug/L	50	53.5	107	77-124	
1,3,5-Trimethylbenzene	ug/L	50	53.5	107	75-124	
1,4-Dichlorobenzene	ug/L	50	48.7	97	75-117	
2-Butanone (MEK)	ug/L	250	247	99	60-135	
2-Hexanone	ug/L	250	316	126	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	291	117	66-134	
Acetone	ug/L	250	241	97	47-144	
Acrylonitrile	ug/L	200	187	94	64-133	
Benzene	ug/L	50	49.6	99	76-122	
Bromochloromethane	ug/L	50	53.1	106	74-134	
Bromodichloromethane	ug/L	50	52.7	105	71-124	
Bromoform	ug/L	50	53.1	106	60-125	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1674762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	77.7	155	23-194	
Carbon disulfide	ug/L	50	49.8	100	63-130	
Carbon tetrachloride	ug/L	50	53.5	107	73-133	
Chlorobenzene	ug/L	50	49.1	98	76-118	
Chloroethane	ug/L	50	54.2	108	50-147	
Chloroform	ug/L	50	49.5	99	70-119	
Chloromethane	ug/L	50	60.0	120	52-136	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	74-120	
cis-1,3-Dichloropropene	ug/L	50	61.6	123	71-134	
Dibromochloromethane	ug/L	50	58.8	118	73-127	
Dibromomethane	ug/L	50	47.3	95	75-124	
Ethylbenzene	ug/L	50	55.0	110	75-123	
Iodomethane	ug/L	100	134	134	56-142	
Isopropylbenzene (Cumene)	ug/L	50	54.7	109	84-134	
Methyl-tert-butyl ether	ug/L	50	50.9	102	65-131	
Methylene Chloride	ug/L	50	54.7	109	66-130	
n-Butyl chloride	ug/L	50	46.2	92	70-130	N2
p-Isopropyltoluene	ug/L	50	56.0	112	75-124	
Styrene	ug/L	50	55.2	110	78-128	
Tetrachloroethene	ug/L	50	52.7	105	69-119	
Tetrahydrofuran	ug/L	50	48.6J	97	50-150	N2
Toluene	ug/L	50	50.5	101	74-122	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	72-122	
trans-1,3-Dichloropropene	ug/L	50	58.8	118	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	228	114	39-153	
Trichloroethene	ug/L	50	48.3	97	75-123	
Trichlorofluoromethane	ug/L	50	56.5	113	58-148	
Vinyl acetate	ug/L	200	238	119	67-154	
Vinyl chloride	ug/L	50	57.1	114	61-147	
Xylene (Total)	ug/L	150	159	106	75-127	
4-Bromofluorobenzene (S)	%.			101	79-116	
Dibromofluoromethane (S)	%.			98	84-118	
Toluene-d8 (S)	%.			102	86-110	

MATRIX SPIKE SAMPLE: 1674764

Parameter	Units	50158656026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	48.3	97	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	47.9	96	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.8	94	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	46.9	94	51-138	
1,1-Dichloroethane	ug/L	ND	50	45.8	92	48-137	
1,1-Dichloroethene	ug/L	ND	50	47.1	94	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	47.9	96	51-139	
1,2,4-Trimethylbenzene	ug/L	ND	50	48.7	97	32-143	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1674764

Parameter	Units	50158656026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	ND	50	52.8	106	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	47.4	95	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	46.8	94	38-138	
1,2-Dichloroethane	ug/L	ND	50	42.6	85	44-144	
1,2-Dichloropropane	ug/L	ND	50	49.3	99	56-138	
1,3,5-Trimethylbenzene	ug/L	ND	50	48.7	97	28-146	
1,4-Dichlorobenzene	ug/L	ND	50	43.2	86	34-134	
2-Butanone (MEK)	ug/L	ND	250	227	91	44-142	
2-Hexanone	ug/L	ND	250	285	114	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	273	109	46-143	
Acetone	ug/L	ND	250	228	91	33-150	
Acrylonitrile	ug/L	ND	200	182	91	47-143	
Benzene	ug/L	ND	50	50.8	94	51-140	
Bromochloromethane	ug/L	ND	50	51.5	103	53-148	
Bromodichloromethane	ug/L	ND	50	49.8	100	46-137	
Bromoform	ug/L	ND	50	48.2	96	36-127	
Bromomethane	ug/L	ND	50	42.2	84	10-188	
Carbon disulfide	ug/L	ND	50	41.6	83	35-148	
Carbon tetrachloride	ug/L	ND	50	52.6	105	45-151	
Chlorobenzene	ug/L	6.0	50	50.9	90	45-138	
Chloroethane	ug/L	ND	50	47.4	95	33-164	
Chloroform	ug/L	ND	50	47.1	94	50-135	
Chloromethane	ug/L	ND	50	46.3	93	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	44.1	88	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	47.0	94	42-136	
Dibromochloromethane	ug/L	ND	50	53.4	107	45-136	
Dibromomethane	ug/L	ND	50	44.9	90	51-139	
Ethylbenzene	ug/L	ND	50	49.5	99	36-146	
Iodomethane	ug/L	ND	100	61.3	61	28-153	
Isopropylbenzene (Cumene)	ug/L	ND	50	50.1	100	43-159	
Methyl-tert-butyl ether	ug/L	ND	50	46.5	92	43-146	
Methylene Chloride	ug/L	ND	50	47.1	94	48-140	
n-Butyl chloride	ug/L	ND	50	43.2	86	70-130	N2
p-Isopropyltoluene	ug/L	ND	50	50.0	100	21-151	
Styrene	ug/L	ND	50	50.2	100	31-148	
Tetrachloroethene	ug/L	ND	50	45.8	92	38-139	
Tetrahydrofuran	ug/L	ND	50	110	85	50-150	N2
Toluene	ug/L	ND	50	47.7	95	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	45.9	92	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	44.8	90	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	152	76	10-157	
Trichloroethene	ug/L	ND	50	46.3	93	44-146	
Trichlorofluoromethane	ug/L	ND	50	50.1	100	41-164	
Vinyl acetate	ug/L	ND	200	132	66	15-146	
Vinyl chloride	ug/L	ND	50	46.1	92	43-166	
Xylene (Total)	ug/L	ND	150	145	97	35-146	
4-Bromofluorobenzene (S)	%.				103	79-116	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1674764

Parameter	Units	50158656026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.				100	84-118	
Toluene-d8 (S)	%.				100	86-110	

SAMPLE DUPLICATE: 1674763

Parameter	Units	50158656025 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	3.2J		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	2.5J		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	.49J		20	
1,4-Dichlorobenzene	ug/L	6.6	6.2	7	20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	3.8J		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	11.5	11.5	0	20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	2.6J		20	
Methyl-tert-butyl ether	ug/L	ND	.48J		20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

SAMPLE DUPLICATE: 1674763

Parameter	Units	50158656025 Result	Dup Result	RPD	Max RPD	Qualifiers
Methylene Chloride	ug/L	ND	ND		20	
n-Butyl chloride	ug/L	ND	ND		20	N2
p-Isopropyltoluene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Tetrahydrofuran	ug/L	ND	18.8J		20	N2
Toluene	ug/L	11.7	11.0	6	20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	97	99	2		
Dibromofluoromethane (S)	%.	101	104	3		
Toluene-d8 (S)	%.	98	99	2		

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363958 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004

METHOD BLANK: 1681413 Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/30/16 12:37	
1,2-Dichloroethane	ug/L	ND	5.0	11/30/16 12:37	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/30/16 12:37	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/30/16 12:37	
2-Butanone (MEK)	ug/L	ND	10.0	11/30/16 12:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/30/16 12:37	
Acetone	ug/L	ND	10.0	11/30/16 12:37	
Benzene	ug/L	ND	5.0	11/30/16 12:37	
Ethylbenzene	ug/L	ND	5.0	11/30/16 12:37	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/30/16 12:37	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/30/16 12:37	
n-Butyl chloride	ug/L	ND	5.0	11/30/16 12:37	N2
p-Isopropyltoluene	ug/L	ND	5.0	11/30/16 12:37	
Tetrahydrofuran	ug/L	ND	100	11/30/16 12:37	N2
Toluene	ug/L	ND	5.0	11/30/16 12:37	
Xylene (Total)	ug/L	ND	5.0	11/30/16 12:37	
4-Bromofluorobenzene (S)	%.	99	79-116	11/30/16 12:37	
Dibromofluoromethane (S)	%.	101	84-118	11/30/16 12:37	
Toluene-d8 (S)	%.	101	86-110	11/30/16 12:37	

LABORATORY CONTROL SAMPLE: 1681414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	44.1	88	73-125	
1,2-Dichloroethane	ug/L	50	43.9	88	70-123	
1,3,5-Trimethylbenzene	ug/L	50	43.1	86	75-124	
1,4-Dichlorobenzene	ug/L	50	44.7	89	75-117	
2-Butanone (MEK)	ug/L	250	266	106	60-135	
4-Methyl-2-pentanone (MIBK)	ug/L	250	234	94	66-134	
Acetone	ug/L	250	228	91	47-144	
Benzene	ug/L	50	45.3	91	76-122	
Ethylbenzene	ug/L	50	47.0	94	75-123	
Isopropylbenzene (Cumene)	ug/L	50	47.9	96	84-134	
Methyl-tert-butyl ether	ug/L	50	48.3	97	65-131	
n-Butyl chloride	ug/L	50	46.1	92	70-130	N2
p-Isopropyltoluene	ug/L	50	45.9	92	75-124	
Tetrahydrofuran	ug/L	50	42.8J	86	50-150	N2
Toluene	ug/L	50	44.6	89	74-122	
Xylene (Total)	ug/L	150	139	93	75-127	
4-Bromofluorobenzene (S)	%.			102	79-116	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1681414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromofluoromethane (S)	%.			102	84-118	
Toluene-d8 (S)	%.			99	86-110	

MATRIX SPIKE SAMPLE: 1681416

Parameter	Units	50159384010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	6.2	50	49.9	87	32-143	
1,2-Dichloroethane	ug/L	ND	50	51.5	103	44-144	
1,3,5-Trimethylbenzene	ug/L	ND	50	44.0	85	28-146	
1,4-Dichlorobenzene	ug/L	7.0	50	52.6	91	34-134	
2-Butanone (MEK)	ug/L	ND	250	297	119	44-142	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	270	108	46-143	
Acetone	ug/L	11.0	250	271	104	33-150	
Benzene	ug/L	47.0	50	101	108	51-140	
Ethylbenzene	ug/L	12.9	50	63.7	102	36-146	
Isopropylbenzene (Cumene)	ug/L	ND	50	53.0	101	43-159	
Methyl-tert-butyl ether	ug/L	ND	50	52.5	103	43-146	
n-Butyl chloride	ug/L	ND	50	49.7	99	70-130	N2
p-Isopropyltoluene	ug/L	ND	50	46.3	89	21-151	
Tetrahydrofuran	ug/L	331	50	418	173	50-150	M0,N2
Toluene	ug/L	ND	50	52.2	95	44-140	
Xylene (Total)	ug/L	25.4	150	181	104	35-146	
4-Bromofluorobenzene (S)	%.				100	79-116	
Dibromofluoromethane (S)	%.				98	84-118	
Toluene-d8 (S)	%.				96	86-110	

SAMPLE DUPLICATE: 1681415

Parameter	Units	50159795001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
n-Butyl chloride	ug/L	ND	ND		20	N2
p-Isopropyltoluene	ug/L	ND	ND		20	
Tetrahydrofuran	ug/L	ND	ND		20	N2
Toluene	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

SAMPLE DUPLICATE: 1681415

Parameter	Units	50159795001 Result	Dup Result	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	97	98	1		
Dibromofluoromethane (S)	%.	102	100	2		
Toluene-d8 (S)	%.	99	100	1		

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363959 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Associated Lab Samples: 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010, 50159795011

METHOD BLANK: 1681417 — Matrix: Water
Associated Lab Samples: 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010, 50159795011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,1-Dichloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,1-Dichloroethene	ug/L	ND	5.0	11/30/16 12:53	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/30/16 12:53	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/30/16 12:53	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/30/16 12:53	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/30/16 12:53	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/30/16 12:53	
1,2-Dichloroethane	ug/L	ND	5.0	11/30/16 12:53	
1,2-Dichloropropane	ug/L	ND	5.0	11/30/16 12:53	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/30/16 12:53	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/30/16 12:53	
2-Butanone (MEK)	ug/L	ND	10.0	11/30/16 12:53	
2-Hexanone	ug/L	ND	10.0	11/30/16 12:53	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/30/16 12:53	
Acetone	ug/L	ND	10.0	11/30/16 12:53	
Acrylonitrile	ug/L	ND	100	11/30/16 12:53	
Benzene	ug/L	ND	5.0	11/30/16 12:53	
Bromochloromethane	ug/L	ND	5.0	11/30/16 12:53	
Bromodichloromethane	ug/L	ND	5.0	11/30/16 12:53	
Bromoform	ug/L	ND	5.0	11/30/16 12:53	
Bromomethane	ug/L	ND	10.0	11/30/16 12:53	
Carbon disulfide	ug/L	ND	10.0	11/30/16 12:53	
Carbon tetrachloride	ug/L	ND	5.0	11/30/16 12:53	
Chlorobenzene	ug/L	ND	5.0	11/30/16 12:53	
Chloroethane	ug/L	ND	10.0	11/30/16 12:53	
Chloroform	ug/L	ND	5.0	11/30/16 12:53	
Chloromethane	ug/L	ND	10.0	11/30/16 12:53	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/30/16 12:53	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/30/16 12:53	
Dibromochloromethane	ug/L	ND	5.0	11/30/16 12:53	
Dibromomethane	ug/L	ND	10.0	11/30/16 12:53	
Ethylbenzene	ug/L	ND	5.0	11/30/16 12:53	
Iodomethane	ug/L	ND	5.0	11/30/16 12:53	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/30/16 12:53	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/30/16 12:53	
Methylene Chloride	ug/L	ND	5.0	11/30/16 12:53	
n-Butyl chloride	ug/L	ND	5.0	11/30/16 12:53	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1681417 Matrix: Water
Associated Lab Samples: 50159795005, 50159795006, 50159795007, 50159795008, 50159795009, 50159795010, 50159795011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	ND	5.0	11/30/16 12:53	
Styrene	ug/L	ND	5.0	11/30/16 12:53	
Tetrachloroethene	ug/L	ND	5.0	11/30/16 12:53	
Tetrahydrofuran	ug/L	ND	100	11/30/16 12:53	N2
Toluene	ug/L	ND	5.0	11/30/16 12:53	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/30/16 12:53	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/30/16 12:53	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/30/16 12:53	
Trichloroethene	ug/L	ND	5.0	11/30/16 12:53	
Trichlorofluoromethane	ug/L	ND	10.0	11/30/16 12:53	
Vinyl acetate	ug/L	ND	10.0	11/30/16 12:53	
Vinyl chloride	ug/L	ND	2.0	11/30/16 12:53	
Xylene (Total)	ug/L	ND	5.0	11/30/16 12:53	
4-Bromofluorobenzene (S)	%.	97	79-116	11/30/16 12:53	
Dibromofluoromethane (S)	%.	101	84-118	11/30/16 12:53	
Toluene-d8 (S)	%.	100	86-110	11/30/16 12:53	

LABORATORY CONTROL SAMPLE: 1681418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Tetrachloroethane	ug/L	50	48.7	97	74-130	
1,1,1-Trichloroethane	ug/L	50	49.4	99	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	45.5	91	72-124	
1,1,2-Trichloroethane	ug/L	50	48.1	96	75-125	
1,1-Dichloroethane	ug/L	50	47.4	95	70-120	
1,1-Dichloroethene	ug/L	50	48.7	97	69-127	
1,2,3-Trichloropropane	ug/L	50	48.6	97	77-127	
1,2,4-Trimethylbenzene	ug/L	50	47.3	95	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.9	100	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	49.2	98	76-125	
1,2-Dichlorobenzene	ug/L	50	48.1	96	77-122	
1,2-Dichloroethane	ug/L	50	48.6	97	70-123	
1,2-Dichloropropane	ug/L	50	49.5	99	77-124	
1,3,5-Trimethylbenzene	ug/L	50	46.9	94	75-124	
1,4-Dichlorobenzene	ug/L	50	46.6	93	75-117	
2-Butanone (MEK)	ug/L	250	230	92	60-135	
2-Hexanone	ug/L	250	240	96	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	239	95	66-134	
Acetone	ug/L	250	216	86	47-144	
Acrylonitrile	ug/L	200	162	81	64-133	
Benzene	ug/L	50	48.5	97	76-122	
Bromochloromethane	ug/L	50	49.0	98	74-134	
Bromodichloromethane	ug/L	50	49.7	99	71-124	
Bromoform	ug/L	50	47.4	95	60-125	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1681418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	38.0	76	23-194	
Carbon disulfide	ug/L	50	47.7	95	63-130	
Carbon tetrachloride	ug/L	50	55.1	110	73-133	
Chlorobenzene	ug/L	50	47.2	94	76-118	
Chloroethane	ug/L	50	51.2	102	50-147	
Chloroform	ug/L	50	49.8	100	70-119	
Chloromethane	ug/L	50	42.5	85	52-136	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	74-120	
cis-1,3-Dichloropropene	ug/L	50	49.9	100	71-134	
Dibromochloromethane	ug/L	50	50.2	100	73-127	
Dibromomethane	ug/L	50	49.4	99	75-124	
Ethylbenzene	ug/L	50	49.0	98	75-123	
Iodomethane	ug/L	100	74.3	74	56-142	
Isopropylbenzene (Cumene)	ug/L	50	49.9	100	84-134	
Methyl-tert-butyl ether	ug/L	50	49.5	99	65-131	
Methylene Chloride	ug/L	50	44.2	88	66-130	
n-Butyl chloride	ug/L	50	51.1	102	70-130	N2
p-Isopropyltoluene	ug/L	50	48.8	98	75-124	
Styrene	ug/L	50	48.9	98	78-128	
Tetrachloroethene	ug/L	50	48.3	97	69-119	
Tetrahydrofuran	ug/L	50	44.4J	89	50-150	N2
Toluene	ug/L	50	47.5	95	74-122	
trans-1,2-Dichloroethene	ug/L	50	49.8	100	72-122	
trans-1,3-Dichloropropene	ug/L	50	51.0	102	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	166	83	39-153	
Trichloroethene	ug/L	50	47.6	95	75-123	
Trichlorofluoromethane	ug/L	50	57.0	114	58-148	
Vinyl acetate	ug/L	200	179	90	67-154	
Vinyl chloride	ug/L	50	55.6	111	61-147	
Xylene (Total)	ug/L	150	149	99	75-127	
4-Bromofluorobenzene (S)	%.			99	79-116	
Dibromofluoromethane (S)	%.			102	84-118	
Toluene-d8 (S)	%.			98	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681420 1681421

Parameter	Units	50159806006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	45.4	44.4	91	89	44-142	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	48.6	46.8	97	94	51-140	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	39.6	39.8	79	80	49-138	1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.1	44.7	90	89	51-138	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	43.5	44.1	87	88	48-137	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.5	46.4	93	93	51-144	0	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	43.1	43.9	86	88	51-139	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681420 1681421

Parameter	Units	50159806006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	50	50	40.6	40.3	81	81	32-143	1	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	40.1	42.3	80	85	37-127	5	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	45.1	45.1	90	90	52-134	0	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	41.1	41.4	82	83	38-138	1	20	
1,2-Dichloroethane	ug/L	ND	50	50	42.7	42.0	85	84	44-144	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	46.4	44.6	93	89	56-138	4	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	40.3	39.7	81	79	28-146	1	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	40.9	40.4	82	81	34-134	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	216	227	86	91	44-142	5	20	
2-Hexanone	ug/L	ND	250	250	194	202	77	81	43-150	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	193	200	77	80	46-143	4	20	
Acetone	ug/L	ND	250	250	207	209	83	83	33-150	1	20	
Acrylonitrile	ug/L	ND	200	200	164	169	82	85	47-143	3	20	
Benzene	ug/L	ND	50	50	46.6	44.8	93	90	51-140	4	20	
Bromochloromethane	ug/L	ND	50	50	44.8	43.6	90	87	53-148	3	20	
Bromodichloromethane	ug/L	ND	50	50	46.7	45.6	93	91	46-137	3	20	
Bromoform	ug/L	ND	50	50	39.1	39.0	78	78	36-127	0	20	
Bromomethane	ug/L	ND	50	50	29.2	33.8	58	68	10-188	14	20	
Carbon disulfide	ug/L	ND	50	50	46.4	44.4	93	89	35-148	4	20	
Carbon tetrachloride	ug/L	ND	50	50	53.4	51.8	107	104	45-151	3	20	
Chlorobenzene	ug/L	ND	50	50	43.1	42.1	86	84	45-138	2	20	
Chloroethane	ug/L	ND	50	50	48.5	46.0	97	92	33-164	5	20	
Chloroform	ug/L	ND	50	50	48.1	45.3	96	91	50-135	6	20	
Chloromethane	ug/L	ND	50	50	37.6	34.6	75	69	38-146	8	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	49.1	48.1	97	95	43-144	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.5	43.8	89	88	42-136	2	20	
Dibromochloromethane	ug/L	ND	50	50	45.8	45.2	92	90	45-136	1	20	
Dibromomethane	ug/L	ND	50	50	46.7	46.4	93	93	51-139	1	20	
Ethylbenzene	ug/L	ND	50	50	45.7	44.1	91	88	36-146	4	20	
Iodomethane	ug/L	ND	100	100	26.3	29.0	26	29	28-153	10	20	M1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.9	45.8	94	92	43-159	2	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	44.7	44.1	89	88	43-146	1	20	
Methylene Chloride	ug/L	ND	50	50	42.8	41.9	81	79	48-140	2	20	
n-Butyl chloride	ug/L	ND	50	50	46.6	45.2	93	90	70-130	3	20	N2
p-Isopropyltoluene	ug/L	ND	50	50	42.1	41.4	84	83	21-151	2	20	
Styrene	ug/L	ND	50	50	44.5	44.0	89	88	31-148	1	20	
Tetrachloroethene	ug/L	ND	50	50	43.8	43.2	88	86	38-139	1	20	
Tetrahydrofuran	ug/L	ND	50	50	36.3J	38.9J	73	78	50-150		20	N2
Toluene	ug/L	ND	50	50	43.9	43.0	88	86	44-140	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	48.1	46.2	96	92	50-139	4	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.0	43.6	88	87	37-138	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	137	139	68	70	10-157	2	20	
Trichloroethene	ug/L	ND	50	50	45.6	44.0	91	88	44-146	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	60.2	57.7	120	115	41-164	4	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681420 1681421

Parameter	Units	50159806006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl acetate	ug/L	ND	200	200	157	157	79	78	15-146	0	20	
Vinyl chloride	ug/L	ND	50	50	53.7	51.0	107	101	43-166	5	20	
Xylene (Total)	ug/L	ND	150	150	136	132	91	88	35-146	3	20	
4-Bromofluorobenzene (S)	%.						101	102	79-116			
Dibromofluoromethane (S)	%.						101	101	84-118			
Toluene-d8 (S)	%.						97	98	86-110			

MATRIX SPIKE SAMPLE: 1681422

Parameter	Units	50159795006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	51.1	102	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	53.1	106	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	46.5	93	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	50.5	101	51-138	
1,1-Dichloroethane	ug/L	ND	50	49.7	99	48-137	
1,1-Dichloroethene	ug/L	ND	50	52.3	105	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	51.4	103	51-139	
1,2,4-Trimethylbenzene	ug/L	ND	50	46.8	94	32-143	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	49.0	98	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	52.1	104	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	48.6	97	38-138	
1,2-Dichloroethane	ug/L	ND	50	50.3	101	44-144	
1,2-Dichloropropane	ug/L	ND	50	50.3	101	56-138	
1,3,5-Trimethylbenzene	ug/L	ND	50	46.9	94	28-146	
1,4-Dichlorobenzene	ug/L	ND	50	46.4	93	34-134	
2-Butanone (MEK)	ug/L	ND	250	228	91	44-142	
2-Hexanone	ug/L	ND	250	240	96	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	235	94	46-143	
Acetone	ug/L	ND	250	233	93	33-150	
Acrylonitrile	ug/L	ND	200	165	83	47-143	
Benzene	ug/L	ND	50	51.6	103	51-140	
Bromochloromethane	ug/L	ND	50	51.0	102	53-148	
Bromodichloromethane	ug/L	ND	50	52.8	106	46-137	
Bromoform	ug/L	ND	50	43.8	88	36-127	
Bromomethane	ug/L	ND	50	33.5	67	10-188	
Carbon disulfide	ug/L	ND	50	50.2	100	35-148	
Carbon tetrachloride	ug/L	ND	50	58.3	117	45-151	
Chlorobenzene	ug/L	ND	50	48.7	97	45-138	
Chloroethane	ug/L	ND	50	54.2	108	33-164	
Chloroform	ug/L	ND	50	53.5	107	50-135	
Chloromethane	ug/L	ND	50	43.5	87	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	53.2	106	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	49.2	98	42-136	
Dibromochloromethane	ug/L	ND	50	51.5	103	45-136	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

MATRIX SPIKE SAMPLE: 1681422

Parameter	Units	50159795006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Dibromomethane	ug/L	ND	50	52.7	105	51-139	
Ethylbenzene	ug/L	ND	50	51.2	102	36-146	
Iodomethane	ug/L	ND	100	108	108	28-153	
Isopropylbenzene (Cumene)	ug/L	ND	50	51.1	102	43-159	
Methyl-tert-butyl ether	ug/L	ND	50	52.1	104	43-146	
Methylene Chloride	ug/L	ND	50	45.7	91	48-140	
n-Butyl chloride	ug/L	ND	50	53.8	108	70-130	N2
p-Isopropyltoluene	ug/L	ND	50	48.2	96	21-151	
Styrene	ug/L	ND	50	47.6	95	31-148	
Tetrachloroethene	ug/L	ND	50	49.3	99	38-139	
Tetrahydrofuran	ug/L	ND	50	45.7J	91	50-150	N2
Toluene	ug/L	ND	50	49.3	99	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	53.4	107	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	49.7	99	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	144	72	10-157	
Trichloroethene	ug/L	ND	50	50.1	100	44-146	
Trichlorofluoromethane	ug/L	ND	50	64.0	128	41-164	
Vinyl acetate	ug/L	ND	200	139	69	15-146	
Vinyl chloride	ug/L	ND	50	61.3	123	43-166	
Xylene (Total)	ug/L	ND	150	152	101	35-146	
4-Bromofluorobenzene (S)	%.				98	79-116	
Dibromofluoromethane (S)	%.				102	84-118	
Toluene-d8 (S)	%.				97	86-110	

SAMPLE DUPLICATE: 1681419

Parameter	Units	50159795007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,3,5-Trimethylbenzene	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

SAMPLE DUPLICATE: 1681419

Parameter	Units	50159795007 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	ND		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	2.2J		20	
n-Butyl chloride	ug/L	ND	ND		20	N2
p-Isopropyltoluene	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Tetrahydrofuran	ug/L	ND	ND		20	N2
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	99	99	0		
Dibromofluoromethane (S)	%.	100	99	0		
Toluene-d8 (S)	%.	100	100	0		

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364891
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 50158656022

METHOD BLANK: 1685829
Matrix: Water
Associated Lab Samples: 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,1-Dichloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,1-Dichloroethene	ug/L	ND	5.0	11/19/16 02:34	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/19/16 02:34	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/19/16 02:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/19/16 02:34	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/19/16 02:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/19/16 02:34	
1,2-Dichloroethane	ug/L	ND	5.0	11/19/16 02:34	
1,2-Dichloropropane	ug/L	ND	5.0	11/19/16 02:34	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/19/16 02:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/19/16 02:34	
2-Butanone (MEK)	ug/L	ND	10.0	11/19/16 02:34	
2-Hexanone	ug/L	ND	10.0	11/19/16 02:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/19/16 02:34	
Acetone	ug/L	ND	10.0	11/19/16 02:34	
Acrylonitrile	ug/L	ND	100	11/19/16 02:34	
Benzene	ug/L	ND	5.0	11/19/16 02:34	
Bromochloromethane	ug/L	ND	5.0	11/19/16 02:34	
Bromodichloromethane	ug/L	ND	5.0	11/19/16 02:34	
Bromoform	ug/L	ND	5.0	11/19/16 02:34	
Bromomethane	ug/L	ND	10.0	11/19/16 02:34	
Carbon disulfide	ug/L	ND	10.0	11/19/16 02:34	
Carbon tetrachloride	ug/L	ND	5.0	11/19/16 02:34	
Chlorobenzene	ug/L	ND	5.0	11/19/16 02:34	
Chloroethane	ug/L	ND	10.0	11/19/16 02:34	
Chloroform	ug/L	ND	5.0	11/19/16 02:34	
Chloromethane	ug/L	ND	10.0	11/19/16 02:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/19/16 02:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/19/16 02:34	
Dibromochloromethane	ug/L	ND	5.0	11/19/16 02:34	
Dibromomethane	ug/L	ND	10.0	11/19/16 02:34	
Ethylbenzene	ug/L	ND	5.0	11/19/16 02:34	
Iodomethane	ug/L	ND	5.0	11/19/16 02:34	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/19/16 02:34	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/19/16 02:34	
Methylene Chloride	ug/L	ND	5.0	11/19/16 02:34	
n-Butyl chloride	ug/L	ND	5.0	11/19/16 02:34	N2

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

METHOD BLANK: 1685829 Matrix: Water
Associated Lab Samples: 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
p-Isopropyltoluene	ug/L	ND	5.0	11/19/16 02:34	
Styrene	ug/L	ND	5.0	11/19/16 02:34	
Tetrachloroethene	ug/L	ND	5.0	11/19/16 02:34	
Tetrahydrofuran	ug/L	ND	100	11/19/16 02:34	N2
Toluene	ug/L	ND	5.0	11/19/16 02:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/19/16 02:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/19/16 02:34	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/19/16 02:34	
Trichloroethene	ug/L	ND	5.0	11/19/16 02:34	
Trichlorofluoromethane	ug/L	ND	10.0	11/19/16 02:34	
Vinyl acetate	ug/L	ND	10.0	11/19/16 02:34	
Vinyl chloride	ug/L	ND	2.0	11/19/16 02:34	
Xylene (Total)	ug/L	ND	5.0	11/19/16 02:34	
4-Bromofluorobenzene (S)	%.	94	79-116	11/19/16 02:34	
Dibromofluoromethane (S)	%.	101	84-118	11/19/16 02:34	
Toluene-d8 (S)	%.	98	86-110	11/19/16 02:34	

LABORATORY CONTROL SAMPLE: 1685830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.3	109	74-130	
1,1,1-Trichloroethane	ug/L	50	48.9	98	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	72-124	
1,1,2-Trichloroethane	ug/L	50	49.8	100	75-125	
1,1-Dichloroethane	ug/L	50	50.9	102	70-120	
1,1-Dichloroethene	ug/L	50	45.0	90	69-127	
1,2,3-Trichloropropane	ug/L	50	50.8	102	77-127	
1,2,4-Trimethylbenzene	ug/L	50	49.7	99	73-125	
1,2-Dibromo-3-chloropropane	ug/L	50	57.5	115	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	76-125	
1,2-Dichlorobenzene	ug/L	50	49.4	99	77-122	
1,2-Dichloroethane	ug/L	50	47.1	94	70-123	
1,2-Dichloropropane	ug/L	50	50.7	101	77-124	
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	75-124	
1,4-Dichlorobenzene	ug/L	50	45.5	91	75-117	
2-Butanone (MEK)	ug/L	250	279	112	60-135	
2-Hexanone	ug/L	250	296	118	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	283	113	66-134	
Acetone	ug/L	250	248	99	47-144	
Acrylonitrile	ug/L	200	192	96	64-133	
Benzene	ug/L	50	48.4	97	76-122	
Bromochloromethane	ug/L	50	48.7	97	74-134	
Bromodichloromethane	ug/L	50	54.0	108	71-124	
Bromoform	ug/L	50	49.2	98	60-125	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

LABORATORY CONTROL SAMPLE: 1685830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	46.4	93	23-194	
Carbon disulfide	ug/L	50	49.8	100	63-130	
Carbon tetrachloride	ug/L	50	52.0	104	73-133	
Chlorobenzene	ug/L	50	47.2	94	76-118	
Chloroethane	ug/L	50	51.5	103	50-147	
Chloroform	ug/L	50	50.3	101	70-119	
Chloromethane	ug/L	50	49.7	99	52-136	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	74-120	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	71-134	
Dibromochloromethane	ug/L	50	54.3	109	73-127	
Dibromomethane	ug/L	50	52.4	105	75-124	
Ethylbenzene	ug/L	50	52.1	104	75-123	
Iodomethane	ug/L	100	113	113	56-142	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	84-134	
Methyl-tert-butyl ether	ug/L	50	50.8	102	65-131	
Methylene Chloride	ug/L	50	53.1	106	66-130	
n-Butyl chloride	ug/L	50	50.7	101	70-130	N2
p-Isopropyltoluene	ug/L	50	51.8	104	75-124	
Styrene	ug/L	50	54.1	108	78-128	
Tetrachloroethene	ug/L	50	48.5	97	69-119	
Tetrahydrofuran	ug/L	50	49.4J	99	50-150	N2
Toluene	ug/L	50	46.1	92	74-122	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	72-122	
trans-1,3-Dichloropropene	ug/L	50	56.0	112	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	206	103	39-153	
Trichloroethene	ug/L	50	46.6	93	75-123	
Trichlorofluoromethane	ug/L	50	52.0	104	58-148	
Vinyl acetate	ug/L	200	239	119	67-154	
Vinyl chloride	ug/L	50	52.4	105	61-147	
Xylene (Total)	ug/L	150	149	99	75-127	
4-Bromofluorobenzene (S)	%.			105	79-116	
Dibromofluoromethane (S)	%.			100	84-118	
Toluene-d8 (S)	%.			102	86-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361549
QC Batch Method: EPA 3510
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB Mod
Associated Lab Samples: 50158656010, 50158656011

METHOD BLANK: 1671032
Matrix: Water
Associated Lab Samples: 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	11/15/16 15:27	
Tetrachloro-m-xylene (S)	%.	49	10-98	11/15/16 15:27	

LABORATORY CONTROL SAMPLE: 1671033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			56	10-98	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362207 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB Mod
Associated Lab Samples: 50158656020, 50158656021, 50158656022

METHOD BLANK: 1673751 Matrix: Water
Associated Lab Samples: 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	11/18/16 13:42	
Tetrachloro-m-xylene (S)	%.	74	10-98	11/18/16 13:42	

LABORATORY CONTROL SAMPLE: 1673752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			80	10-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673833 1673834

Parameter	Units	50159218003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloro-m-xylene (S)	%.						66	68	10-98			

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363638 — Analysis Method: EPA 8082
QC Batch Method: EPA 3510 — Analysis Description: 8082 GCS PCB Mod
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

METHOD BLANK: 1680188 — Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	11/29/16 09:14	
Tetrachloro-m-xylene (S)	%.	50	10-98	11/29/16 09:14	

LABORATORY CONTROL SAMPLE: 1680189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			44	10-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1680190 — 1680191

Parameter	Units	50159697004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloro-m-xylene (S)	%.						17	30	10-98			

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361338
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water Low Volume MSSV
Associated Lab Samples: 50158656010, 50158656011

METHOD BLANK: 1670336
Matrix: Water
Associated Lab Samples: 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/15/16 12:27	
Phenol	ug/L	ND	10.0	11/15/16 12:27	
2,4,6-Tribromophenol (S)	%.	87	29-158	11/15/16 12:27	
2-Fluorobiphenyl (S)	%.	33	33-114	11/15/16 12:27	
2-Fluorophenol (S)	%.	30	11-79	11/15/16 12:27	
Nitrobenzene-d5 (S)	%.	93	38-124	11/15/16 12:27	
p-Terphenyl-d14 (S)	%.	96	10-113	11/15/16 12:27	
Phenol-d5 (S)	%.	18	10-58	11/15/16 12:27	

LABORATORY CONTROL SAMPLE: 1670337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	70.8	71	31-93	
Phenol	ug/L	100	50.8	51	11-61	
2,4,6-Tribromophenol (S)	%.			91	29-158	
2-Fluorobiphenyl (S)	%.			86	33-114	
2-Fluorophenol (S)	%.			59	11-79	
Nitrobenzene-d5 (S)	%.			80	38-124	
p-Terphenyl-d14 (S)	%.			99	10-113	
Phenol-d5 (S)	%.			46	10-58	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361935 — Analysis Method: EPA 8270
QC Batch Method: EPA 3510 — Analysis Description: 8270 Water Low Volume MSSV
Associated Lab Samples: 50158656020, 50158656021, 50158656022

METHOD BLANK: 1672447 — Matrix: Water
Associated Lab Samples: 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/17/16 19:44	
Phenol	ug/L	ND	10.0	11/17/16 19:44	
2,4,6-Tribromophenol (S)	%.	91	29-158	11/17/16 19:44	
2-Fluorobiphenyl (S)	%.	69	33-114	11/17/16 19:44	
2-Fluorophenol (S)	%.	41	11-79	11/17/16 19:44	
Nitrobenzene-d5 (S)	%.	86	38-124	11/17/16 19:44	
p-Terphenyl-d14 (S)	%.	124	10-113	11/17/16 19:44	S3
Phenol-d5 (S)	%.	28	10-58	11/17/16 19:44	

LABORATORY CONTROL SAMPLE: 1672448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	82.3	82	31-93	
Phenol	ug/L	100	40.4	40	11-61	
2,4,6-Tribromophenol (S)	%.			119	29-158	
2-Fluorobiphenyl (S)	%.			91	33-114	
2-Fluorophenol (S)	%.			39	11-79	
Nitrobenzene-d5 (S)	%.			90	38-124	
p-Terphenyl-d14 (S)	%.			121	10-113	S0
Phenol-d5 (S)	%.			29	10-58	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363493 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water Low Volume MSSV
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

METHOD BLANK: 1679765 | Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/29/16 19:38	
Phenol	ug/L	ND	10.0	11/29/16 19:38	
2,4,6-Tribromophenol (S)	%.	55	29-158	11/29/16 19:38	
2-Fluorobiphenyl (S)	%.	41	33-114	11/29/16 19:38	
2-Fluorophenol (S)	%.	25	11-79	11/29/16 19:38	
Nitrobenzene-d5 (S)	%.	52	38-124	11/29/16 19:38	
p-Terphenyl-d14 (S)	%.	87	10-113	11/29/16 19:38	
Phenol-d5 (S)	%.	16	10-58	11/29/16 19:38	

LABORATORY CONTROL SAMPLE: 1679766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	45.7	46	31-93	
Phenol	ug/L	100	23.2	23	11-61	
2,4,6-Tribromophenol (S)	%.			80	29-158	
2-Fluorobiphenyl (S)	%.			60	33-114	
2-Fluorophenol (S)	%.			30	11-79	
Nitrobenzene-d5 (S)	%.			51	38-124	
p-Terphenyl-d14 (S)	%.			80	10-113	
Phenol-d5 (S)	%.			21	10-58	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361290 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006

METHOD BLANK: 1670001 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/12/16 15:52	

LABORATORY CONTROL SAMPLE: 1670002

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 1670003

Parameter	Units	50158810009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130	145	11	10	R1

SAMPLE DUPLICATE: 1670004

Parameter	Units	50158810005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	170	173	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361320 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50158656008, 50158656010, 50158656011

METHOD BLANK: 1670286 — Matrix: Water
Associated Lab Samples: 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/14/16 07:37	

LABORATORY CONTROL SAMPLE: 1670287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 1670288

Parameter	Units	50158634008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	794	799	1	10	

SAMPLE DUPLICATE: 1670289

Parameter	Units	50158769003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2430	2480	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361897 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

METHOD BLANK: 1672305 — Matrix: Water
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/16/16 13:51	

LABORATORY CONTROL SAMPLE: 1672306

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 1672307

Parameter	Units	50158854001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	602	612	2	10	

SAMPLE DUPLICATE: 1672308

Parameter	Units	50158868020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363461 — Analysis Method: SM 2540C
QC Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1679676 — Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/27/16 12:17	

LABORATORY CONTROL SAMPLE: 1679677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 1679678

Parameter	Units	50159729001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	110000	110000	0	10	

SAMPLE DUPLICATE: 1679679

Parameter	Units	50159795010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1310	1280	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362944 — Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 — Analysis Description: 410.4 COD
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656018, 50158656019, 50158656020, 50158656021

METHOD BLANK: 1677348 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656018, 50158656019, 50158656020, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/21/16 17:45	

LABORATORY CONTROL SAMPLE: 1677349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1677350 — 1677351

Parameter	Units	50158656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	60.3	61.0	107	109	90-110	1	20	

MATRIX SPIKE SAMPLE: 1677427

Parameter	Units	50158656021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	60.0	108	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362945 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 50158656022

METHOD BLANK: 1677354 | Matrix: Water
Associated Lab Samples: 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/21/16 18:33	

LABORATORY CONTROL SAMPLE: 1677355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1677356 1677357

Parameter	Units	50158656022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	26.2	50	50	79.7	80.0	107	108	90-110	0	20	

MATRIX SPIKE SAMPLE: 1677358

Parameter	Units	50158656039 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	92.7	50	139	93	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363006 — Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 — Analysis Description: 410.4 COD
Associated Lab Samples: 50158656010, 50158656011

METHOD BLANK: 1677527 — Matrix: Water
Associated Lab Samples: 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/21/16 19:10	

LABORATORY CONTROL SAMPLE: 1677528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	517	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1677529 — 1677530

Parameter	Units	50159153009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	433	500	500	902	903	94	94	90-110	0	20	

MATRIX SPIKE SAMPLE: 1677531

Parameter	Units	50158656009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	989	500	1430	88	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364815 — Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 — Analysis Description: 410.4 COD
Associated Lab Samples: 50159795006

METHOD BLANK: 1685634 — Matrix: Water
Associated Lab Samples: 50159795006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	12/06/16 14:03	

LABORATORY CONTROL SAMPLE: 1685635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1685636 1685637

Parameter	Units	50159735004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	58.9	53.8	118	108	90-110	9	20	M0

MATRIX SPIKE SAMPLE: 1685638

Parameter	Units	50159795006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.0	110	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 365133
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 50159795009, 50159795010

METHOD BLANK: 1686969
Matrix: Water
Associated Lab Samples: 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	12/08/16 06:33	

LABORATORY CONTROL SAMPLE: 1686970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686971 1686972

Parameter	Units	50159861001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	15.4	50	50	76.7	69.7	123	109	90-110	9	20	M0

MATRIX SPIKE SAMPLE: 1686973

Parameter	Units	50159908001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.6	50	88.1	119	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361083 | Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D | Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50158656010, 50158656011

METHOD BLANK: 1668587 | Matrix: Water
Associated Lab Samples: 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/11/16 09:19	

LABORATORY CONTROL SAMPLE: 1668588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.45J	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1668589 1668590

Parameter	Units	50158634017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	.35J	.35J	69	70	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 1668591

Parameter	Units	50158663002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.47J	94	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361375 — Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50158656020, 50158656021, 50158656022

METHOD BLANK: 1670442 — Matrix: Water
Associated Lab Samples: 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/14/16 08:55	

LABORATORY CONTROL SAMPLE: 1670443

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.47J	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1670444 1670445

Parameter	Units	50158756004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	.26J	.26J	51	51	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 1670446

Parameter	Units	50158756001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.42J	84	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363380 — Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D — Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

METHOD BLANK: 1679098 — Matrix: Water
Associated Lab Samples: 50159795001, 50159795002, 50159795003, 50159795004, 50159795005, 50159795007, 50159795008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.20	11/23/16 14:39	

LABORATORY CONTROL SAMPLE: 1679099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	0.46	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679100 — 1679101

Parameter	Units	50159674001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	.5	.5	0.43	0.43	87	86	90-110	1	20	M3

MATRIX SPIKE SAMPLE: 1679102

Parameter	Units	50159674011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	0.44	87	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362750 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

METHOD BLANK: 1676552 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	11/21/16 13:54	

LABORATORY CONTROL SAMPLE: 1676553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1676554 — 1676555

Parameter	Units	50158899013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.10	2	2	1.7	1.6	83	81	90-110	2	20	M3

MATRIX SPIKE SAMPLE: 1676556

Parameter	Units	50158328001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	2.0	100	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362751 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

METHOD BLANK: 1676557 — Matrix: Water
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	11/21/16 12:39	

LABORATORY CONTROL SAMPLE: 1676558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1676559 1676560

Parameter	Units	50158656015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2	2	2.0	2.0	99	99	90-110	0	20	

MATRIX SPIKE SAMPLE: 1676561

Parameter	Units	50158656023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.0	51	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 365598 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1689441 — Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	12/09/16 13:47	

LABORATORY CONTROL SAMPLE: 1689442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1689443 — 1689444

Parameter	Units	50159739001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.41	2	2	2.3	2.3	96	96	90-110	0	20	

MATRIX SPIKE SAMPLE: 1689865

Parameter	Units	50159795006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.30	2	2.2	94	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361624 — Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 — Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

METHOD BLANK: 1671214 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/15/16 13:48	

LABORATORY CONTROL SAMPLE: 1671215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.47	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671216 1671217

Parameter	Units	50158578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.32	.5	.5	0.77	0.79	90	95	90-110	3	20	

MATRIX SPIKE SAMPLE: 1671218

Parameter	Units	50158656014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.10	.5	0.55	89	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362125 — Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 — Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

METHOD BLANK: 1673359 — Matrix: Water
Associated Lab Samples: 50158656018, 50158656019, 50158656020, 50158656021, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/18/16 11:35	

LABORATORY CONTROL SAMPLE: 1673360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.49	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1673361 — 1673362

Parameter	Units	50158862003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.17	.5	.5	0.65	0.66	96	97	90-110	1	20	

MATRIX SPIKE SAMPLE: 1673363

Parameter	Units	50158943005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.8	.5	3.1	64	90-110	P6

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364285 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1683073 | Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	12/05/16 10:12	

LABORATORY CONTROL SAMPLE: 1683074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.48	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1683075 1683076

Parameter	Units	50159773001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.11	.5	.5	0.59	0.59	97	96	90-110	1	20	

MATRIX SPIKE SAMPLE: 1683077

Parameter	Units	50159861001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.49	94	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362510 — Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G — Analysis Description: 4500 Ammonia
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019, 50158656020, 50158656021

METHOD BLANK: 1675314 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011, 50158656018, 50158656019, 50158656020, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	11/18/16 13:43	

LABORATORY CONTROL SAMPLE: 1675315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1675316 — 1675317

Parameter	Units	50158656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.15	1	1	1.2	1.2	102	102	90-110	0	20	

MATRIX SPIKE SAMPLE: 1675318

Parameter	Units	50158656011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	46.8	10	56.6	98	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362512
QC Batch Method: SM 4500-NH3 G
Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia
Associated Lab Samples: 50158656022

METHOD BLANK: 1675325
Matrix: Water
Associated Lab Samples: 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	11/18/16 14:15	

LABORATORY CONTROL SAMPLE: 1675326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1675327 1675328

Parameter	Units	50158656022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	1.1	1.0	104	102	90-110	2	20	

MATRIX SPIKE SAMPLE: 1675329

Parameter	Units	50158656033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.7		2.8			

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 365384 — Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G — Analysis Description: 4500 Ammonia
Associated Lab Samples: 50159795006, 50159795009, 50159795010

METHOD BLANK: 1688398 — Matrix: Water
Associated Lab Samples: 50159795006, 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	12/08/16 13:46	

LABORATORY CONTROL SAMPLE: 1688399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1688400 — 1688401

Parameter	Units	50159735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	1.0	1.0	100	100	90-110	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 361753 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

METHOD BLANK: 1671864 — Matrix: Water
Associated Lab Samples: 50158656001, 50158656002, 50158656003, 50158656004, 50158656005, 50158656006, 50158656008, 50158656010, 50158656011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/16/16 16:29	

LABORATORY CONTROL SAMPLE: 1671865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1671866 1671867

Parameter	Units	50158305003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	11.1	11.0	101	101	80-120	0	20	

MATRIX SPIKE SAMPLE: 1671868

Parameter	Units	50158656011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	61.8	400	467	101	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 362300 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50158656018, 50158656020, 50158656022

METHOD BLANK: 1674341 — Matrix: Water
Associated Lab Samples: 50158656018, 50158656020, 50158656022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/17/16 18:38	

LABORATORY CONTROL SAMPLE: 1674342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1674343 1674344

Parameter	Units	50158656018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	40	40	41.3	41.2	100	100	80-120	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 363353
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50158656019, 50158656021

METHOD BLANK: 1678907
Matrix: Water
Associated Lab Samples: 50158656019, 50158656021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/27/16 09:31	

LABORATORY CONTROL SAMPLE: 1678908

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1678909 1678910

Parameter	Units	50158979007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	11.0	10.8	103	101	80-120	1	20	

MATRIX SPIKE SAMPLE: 1678911

Parameter	Units	50159091008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.0	10	9.6	86	80-120	2d

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

QC Batch: 364214
QC Batch Method: SM 5310C
Associated Lab Samples: 50159795006

Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon

METHOD BLANK: 1682645
Matrix: Water
Associated Lab Samples: 50159795006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	12/02/16 04:31	

LABORATORY CONTROL SAMPLE: 1682646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1682647 1682648

Parameter	Units	50159497007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.6	20	20	23.8	23.7	101	100	80-120	0	20	1d

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QUALITY CONTROL DATA

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

TOC Batch: 364659
TOC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50159795009, 50159795010

METHOD BLANK: 1684939
Matrix: Water
Associated Lab Samples: 50159795009, 50159795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	12/05/16 20:18	

LABORATORY CONTROL SAMPLE: 1684940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.8	98	90-110	

MATRIX SPIKE SAMPLE: 1684943

Parameter	Units	50160027011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.6	10	11.6	100	80-120	

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QUALIFIERS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 361338
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 361549
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 361935
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 362207
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 363493
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1d	Analysis exceed maximum integration time before sample peak returned to baseline. The reported result is estimated.
2d	Analysis exceeded maximum integration time before the sample peak returned to the baseline. The reported result is estimated. ejs 11/27/2016
C9	Common Laboratory Contaminant.
CU	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D4	Sample was diluted due to the presence of high levels of target analytes.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALIFIERS

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656001	PZ-111-SD		363933		
50158656002	PZ-110-SS		363933		
50158656003	PZ-109-SS		363933		
50158656004	PZ-205-SS		363933		
50158656005	PZ-106-SD		363933		
50158656006	PZ-106-SS		363933		
50158656008	PZ-105-SS		363933		
50158656010	PZ-104-SD		363933		
50158656018	PZ-100-SD		363933		
50158656019	PZ-100-SS		363933		
50158656021	PZ-104-KS		363933		
50158656022	PZ-104-SS		363933		
50159795001	PZ-209-SS		364034		
50159795002	PZ-209-SD		364034		
50159795004	PZ-211-SD		364034		
50159795005	PZ-211-SS		364034		
50159795006	PZ-201A-SS		364034		
50159795007	PZ-210-SD		364034		
50159795008	PZ-210-SS		364034		
50159795009	PZ-115-SS		364034		
50159795010	PZ-114-AS		364034		
50158656010	PZ-104-SD	EPA 3510	361549	EPA 8082	361625
50158656011	PZ-104-SD Dup	EPA 3510	361549	EPA 8082	361625
50158656020	FB@PZ-104-KS	EPA 3510	362207	EPA 8082	362455
50158656021	PZ-104-KS	EPA 3510	362207	EPA 8082	362455
50158656022	PZ-104-SS	EPA 3510	362207	EPA 8082	362455
50159795001	PZ-209-SS	EPA 3510	363638	EPA 8082	363674
50159795002	PZ-209-SD	EPA 3510	363638	EPA 8082	363674
50159795003	PZ-209-SD DUP	EPA 3510	363638	EPA 8082	363674
50159795004	PZ-211-SD	EPA 3510	363638	EPA 8082	363674
50159795005	PZ-211-SS	EPA 3510	363638	EPA 8082	363674
50159795007	PZ-210-SD	EPA 3510	363638	EPA 8082	363674
50159795008	PZ-210-SS	EPA 3510	363638	EPA 8082	363674
50158656001	PZ-111-SD	EPA 9056	360977		
50158656002	PZ-110-SS	EPA 9056	360977		
50158656003	PZ-109-SS	EPA 9056	360977		
50158656004	PZ-205-SS	EPA 9056	360977		
50158656005	PZ-106-SD	EPA 9056	360977		
50158656006	PZ-106-SS	EPA 9056	360977		
50158656008	PZ-105-SS	EPA 9056	360977		
50158656010	PZ-104-SD	EPA 9056	360977		
50158656011	PZ-104-SD Dup	EPA 9056	360977		
50158656018	PZ-100-SD	EPA 9056	361548		
50158656019	PZ-100-SS	EPA 9056	361548		
50158656020	FB@PZ-104-KS	EPA 9056	361548		
50158656021	PZ-104-KS	EPA 9056	361548		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656022	PZ-104-SS	EPA 9056	361548		
50159795006	PZ-201A-SS	EPA 9056	363967		
50159795009	PZ-115-SS	EPA 9056	363967		
50159795010	PZ-114-AS	EPA 9056	363967		
50158656001	PZ-111-SD	EPA 3010	360955	EPA 6010	362386
50158656002	PZ-110-SS	EPA 3010	360955	EPA 6010	362386
50158656003	PZ-109-SS	EPA 3010	360955	EPA 6010	362386
50158656004	PZ-205-SS	EPA 3010	360955	EPA 6010	362386
50158656005	PZ-106-SD	EPA 3010	360955	EPA 6010	362386
50158656006	PZ-106-SS	EPA 3010	360955	EPA 6010	362386
50158656008	PZ-105-SS	EPA 3010	360955	EPA 6010	362386
50158656010	PZ-104-SD	EPA 3010	360955	EPA 6010	362386
50158656011	PZ-104-SD Dup	EPA 3010	360955	EPA 6010	362386
50158656018	PZ-100-SD	EPA 3010	361309	EPA 6010	362172
50158656019	PZ-100-SS	EPA 3010	361309	EPA 6010	362172
50158656020	FB@PZ-104-KS	EPA 3010	361309	EPA 6010	362172
50158656021	PZ-104-KS	EPA 3010	361309	EPA 6010	362172
50158656022	PZ-104-SS	EPA 3010	361309	EPA 6010	362172
50159795001	PZ-209-SS	EPA 3010	363742	EPA 6010	364105
50159795002	PZ-209-SD	EPA 3010	363742	EPA 6010	364105
50159795003	PZ-209-SD DUP	EPA 3010	363742	EPA 6010	364105
50159795004	PZ-211-SD	EPA 3010	363742	EPA 6010	364105
50159795005	PZ-211-SS	EPA 3010	363742	EPA 6010	364105
50159795006	PZ-201A-SS	EPA 3010	363742	EPA 6010	364105
50159795007	PZ-210-SD	EPA 3010	363742	EPA 6010	364105
50159795008	PZ-210-SS	EPA 3010	363742	EPA 6010	364105
50159795009	PZ-115-SS	EPA 3010	363742	EPA 6010	364105
50159795010	PZ-114-AS	EPA 3010	363742	EPA 6010	364105
50158656001	PZ-111-SD	EPA 200.2	361418	EPA 6020	362017
50158656002	PZ-110-SS	EPA 200.2	361418	EPA 6020	362017
50158656003	PZ-109-SS	EPA 200.2	361418	EPA 6020	362017
50158656004	PZ-205-SS	EPA 200.2	361418	EPA 6020	362017
50158656005	PZ-106-SD	EPA 200.2	361418	EPA 6020	362017
50158656006	PZ-106-SS	EPA 200.2	361418	EPA 6020	362017
50158656008	PZ-105-SS	EPA 200.2	361418	EPA 6020	362017
50158656010	PZ-104-SD	EPA 200.2	361418	EPA 6020	362017
50158656011	PZ-104-SD Dup	EPA 200.2	361418	EPA 6020	362017
50158656018	PZ-100-SD	EPA 200.2	361418	EPA 6020	362017
50158656019	PZ-100-SS	EPA 200.2	361418	EPA 6020	362017
50158656020	FB@PZ-104-KS	EPA 200.2	361418	EPA 6020	362017
50158656021	PZ-104-KS	EPA 200.2	361418	EPA 6020	362017
50158656022	PZ-104-SS	EPA 200.2	361921	EPA 6020	362330
50159795001	PZ-209-SS	EPA 200.2	364605	EPA 6020	364995
50159795002	PZ-209-SD	EPA 200.2	364605	EPA 6020	364995
50159795003	PZ-209-SD DUP	EPA 200.2	364605	EPA 6020	364995

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50159795004	PZ-211-SD	EPA 200.2	364605	EPA 6020	364995
50159795005	PZ-211-SS	EPA 200.2	364605	EPA 6020	364995
50159795006	PZ-201A-SS	EPA 200.2	364605	EPA 6020	364995
50159795007	PZ-210-SD	EPA 200.2	364605	EPA 6020	364995
50159795008	PZ-210-SS	EPA 200.2	364605	EPA 6020	364995
50159795009	PZ-115-SS	EPA 200.2	364605	EPA 6020	364995
50159795010	PZ-114-AS	EPA 200.2	364605	EPA 6020	364995
50158656001	PZ-111-SD	EPA 7470	362441	EPA 7470	364256
50158656002	PZ-110-SS	EPA 7470	362441	EPA 7470	364256
50158656003	PZ-109-SS	EPA 7470	362441	EPA 7470	364256
50158656004	PZ-205-SS	EPA 7470	362441	EPA 7470	364256
50158656005	PZ-106-SD	EPA 7470	362441	EPA 7470	364256
50158656006	PZ-106-SS	EPA 7470	362441	EPA 7470	364256
50158656008	PZ-105-SS	EPA 7470	362441	EPA 7470	364256
50158656010	PZ-104-SD	EPA 7470	362441	EPA 7470	364256
50158656011	PZ-104-SD Dup	EPA 7470	362441	EPA 7470	364256
50158656018	PZ-100-SD	EPA 7470	362441	EPA 7470	364256
50158656019	PZ-100-SS	EPA 7470	362441	EPA 7470	364256
50158656020	FB@PZ-104-KS	EPA 7470	362445	EPA 7470	364053
50158656021	PZ-104-KS	EPA 7470	362445	EPA 7470	364053
50158656022	PZ-104-SS	EPA 7470	362445	EPA 7470	364053
50159795006	PZ-201A-SS	EPA 7470	364736	EPA 7470	364982
50159795009	PZ-115-SS	EPA 7470	364736	EPA 7470	364982
50159795010	PZ-114-AS	EPA 7470	364736	EPA 7470	364982
50158656010	PZ-104-SD	EPA 3510	361338	EPA 8270	361468
50158656011	PZ-104-SD Dup	EPA 3510	361338	EPA 8270	361468
50158656020	FB@PZ-104-KS	EPA 3510	361935	EPA 8270	362231
50158656021	PZ-104-KS	EPA 3510	361935	EPA 8270	362231
50158656022	PZ-104-SS	EPA 3510	361935	EPA 8270	362231
50159795001	PZ-209-SS	EPA 3510	363493	EPA 8270	363773
50159795002	PZ-209-SD	EPA 3510	363493	EPA 8270	363773
50159795003	PZ-209-SD DUP	EPA 3510	363493	EPA 8270	363773
50159795004	PZ-211-SD	EPA 3510	363493	EPA 8270	363773
50159795005	PZ-211-SS	EPA 3510	363493	EPA 8270	363773
50159795007	PZ-210-SD	EPA 3510	363493	EPA 8270	363773
50159795008	PZ-210-SS	EPA 3510	363493	EPA 8270	363773
50158656001	PZ-111-SD	EPA 8260	361801		
50158656002	PZ-110-SS	EPA 8260	361801		
50158656003	PZ-109-SS	EPA 8260	361801		
50158656004	PZ-205-SS	EPA 8260	361802		
50158656005	PZ-106-SD	EPA 8260	361801		
50158656006	PZ-106-SS	EPA 8260	361801		
50158656008	PZ-105-SS	EPA 8260	361802		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656010	PZ-104-SD	EPA 8260	361803		
50158656011	PZ-104-SD Dup	EPA 8260	362376		
50158656012	Trip Blank	EPA 8260	361803		
50158656018	PZ-100-SD	EPA 8260	362376		
50158656019	PZ-100-SS	EPA 8260	362376		
50158656020	FB@PZ-104-KS	EPA 8260	362379		
50158656021	PZ-104-KS	EPA 8260	362379		
50158656022	PZ-104-SS	EPA 8260	364891		
50159795001	PZ-209-SS	EPA 8260	363958		
50159795002	PZ-209-SD	EPA 8260	363958		
50159795003	PZ-209-SD DUP	EPA 8260	363958		
50159795004	PZ-211-SD	EPA 8260	363958		
50159795005	PZ-211-SS	EPA 8260	363959		
50159795006	PZ-201A-SS	EPA 8260	363959		
50159795007	PZ-210-SD	EPA 8260	363959		
50159795008	PZ-210-SS	EPA 8260	363959		
50159795009	PZ-115-SS	EPA 8260	363959		
50159795010	PZ-114-AS	EPA 8260	363959		
50159795011	TRIP BLANK	EPA 8260	363959		
50158656001	PZ-111-SD	SM 2540C	361290		
50158656002	PZ-110-SS	SM 2540C	361290		
50158656003	PZ-109-SS	SM 2540C	361290		
50158656004	PZ-205-SS	SM 2540C	361290		
50158656005	PZ-106-SD	SM 2540C	361290		
50158656006	PZ-106-SS	SM 2540C	361290		
50158656008	PZ-105-SS	SM 2540C	361320		
50158656010	PZ-104-SD	SM 2540C	361320		
50158656011	PZ-104-SD Dup	SM 2540C	361320		
50158656018	PZ-100-SD	SM 2540C	361897		
50158656019	PZ-100-SS	SM 2540C	361897		
50158656020	FB@PZ-104-KS	SM 2540C	361897		
50158656021	PZ-104-KS	SM 2540C	361897		
50158656022	PZ-104-SS	SM 2540C	361897		
50159795006	PZ-201A-SS	SM 2540C	363461		
50159795009	PZ-115-SS	SM 2540C	363461		
50159795010	PZ-114-AS	SM 2540C	363461		
50158656001	PZ-111-SD	EPA 410.4	362944	EPA 410.4	363019
50158656002	PZ-110-SS	EPA 410.4	362944	EPA 410.4	363019
50158656003	PZ-109-SS	EPA 410.4	362944	EPA 410.4	363019
50158656004	PZ-205-SS	EPA 410.4	362944	EPA 410.4	363019
50158656005	PZ-106-SD	EPA 410.4	362944	EPA 410.4	363019
50158656006	PZ-106-SS	EPA 410.4	362944	EPA 410.4	363019
50158656008	PZ-105-SS	EPA 410.4	362944	EPA 410.4	363019

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656010	PZ-104-SD	EPA 410.4	363006	EPA 410.4	363107
50158656011	PZ-104-SD Dup	EPA 410.4	363006	EPA 410.4	363107
50158656018	PZ-100-SD	EPA 410.4	362944	EPA 410.4	363019
50158656019	PZ-100-SS	EPA 410.4	362944	EPA 410.4	363019
50158656020	FB@PZ-104-KS	EPA 410.4	362944	EPA 410.4	363019
50158656021	PZ-104-KS	EPA 410.4	362944	EPA 410.4	363019
50158656022	PZ-104-SS	EPA 410.4	362945	EPA 410.4	363028
50159795006	PZ-201A-SS	EPA 410.4	364815	EPA 410.4	364935
50159795009	PZ-115-SS	EPA 410.4	365133	EPA 410.4	365293
50159795010	PZ-114-AS	EPA 410.4	365133	EPA 410.4	365293
50158656010	PZ-104-SD	SM 4500-S2-D	361083		
50158656011	PZ-104-SD Dup	SM 4500-S2-D	361083		
50158656020	FB@PZ-104-KS	SM 4500-S2-D	361375		
50158656021	PZ-104-KS	SM 4500-S2-D	361375		
50158656022	PZ-104-SS	SM 4500-S2-D	361375		
50159795001	PZ-209-SS	SM 4500-S2-D	363380		
50159795002	PZ-209-SD	SM 4500-S2-D	363380		
50159795003	PZ-209-SD DUP	SM 4500-S2-D	363380		
50159795004	PZ-211-SD	SM 4500-S2-D	363380		
50159795005	PZ-211-SS	SM 4500-S2-D	363380		
50159795007	PZ-210-SD	SM 4500-S2-D	363380		
50159795008	PZ-210-SS	SM 4500-S2-D	363380		
50158656001	PZ-111-SD	EPA 353.2	362750		
50158656002	PZ-110-SS	EPA 353.2	362750		
50158656003	PZ-109-SS	EPA 353.2	362750		
50158656004	PZ-205-SS	EPA 353.2	362750		
50158656005	PZ-106-SD	EPA 353.2	362750		
50158656006	PZ-106-SS	EPA 353.2	362750		
50158656008	PZ-105-SS	EPA 353.2	362750		
50158656010	PZ-104-SD	EPA 353.2	362750		
50158656011	PZ-104-SD Dup	EPA 353.2	362750		
50158656018	PZ-100-SD	EPA 353.2	362751		
50158656019	PZ-100-SS	EPA 353.2	362751		
50158656020	FB@PZ-104-KS	EPA 353.2	362751		
50158656021	PZ-104-KS	EPA 353.2	362751		
50158656022	PZ-104-SS	EPA 353.2	362751		
50159795006	PZ-201A-SS	EPA 353.2	365598		
50159795009	PZ-115-SS	EPA 353.2	365598		
50159795010	PZ-114-AS	EPA 353.2	365598		
50158656001	PZ-111-SD	EPA 365.1	361624	EPA 365.1	361685
50158656002	PZ-110-SS	EPA 365.1	361624	EPA 365.1	361685
50158656003	PZ-109-SS	EPA 365.1	361624	EPA 365.1	361685
50158656004	PZ-205-SS	EPA 365.1	361624	EPA 365.1	361685

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656005	PZ-106-SD	EPA 365.1	361624	EPA 365.1	361685
50158656006	PZ-106-SS	EPA 365.1	361624	EPA 365.1	361685
50158656008	PZ-105-SS	EPA 365.1	361624	EPA 365.1	361685
50158656010	PZ-104-SD	EPA 365.1	361624	EPA 365.1	361685
50158656011	PZ-104-SD Dup	EPA 365.1	361624	EPA 365.1	361685
50158656018	PZ-100-SD	EPA 365.1	362125	EPA 365.1	362435
50158656019	PZ-100-SS	EPA 365.1	362125	EPA 365.1	362435
50158656020	FB@PZ-104-KS	EPA 365.1	362125	EPA 365.1	362435
50158656021	PZ-104-KS	EPA 365.1	362125	EPA 365.1	362435
50158656022	PZ-104-SS	EPA 365.1	362125	EPA 365.1	362435
50159795006	PZ-201A-SS	EPA 365.1	364285	EPA 365.1	364580
50159795009	PZ-115-SS	EPA 365.1	364285	EPA 365.1	364580
50159795010	PZ-114-AS	EPA 365.1	364285	EPA 365.1	364580
50158656001	PZ-111-SD	SM 4500-NH3 G	362510		
50158656002	PZ-110-SS	SM 4500-NH3 G	362510		
50158656003	PZ-109-SS	SM 4500-NH3 G	362510		
50158656004	PZ-205-SS	SM 4500-NH3 G	362510		
50158656005	PZ-106-SD	SM 4500-NH3 G	362510		
50158656006	PZ-106-SS	SM 4500-NH3 G	362510		
50158656008	PZ-105-SS	SM 4500-NH3 G	362510		
50158656010	PZ-104-SD	SM 4500-NH3 G	362510		
50158656011	PZ-104-SD Dup	SM 4500-NH3 G	362510		
50158656018	PZ-100-SD	SM 4500-NH3 G	362510		
50158656019	PZ-100-SS	SM 4500-NH3 G	362510		
50158656020	FB@PZ-104-KS	SM 4500-NH3 G	362510		
50158656021	PZ-104-KS	SM 4500-NH3 G	362510		
50158656022	PZ-104-SS	SM 4500-NH3 G	362512		
50159795006	PZ-201A-SS	SM 4500-NH3 G	365384		
50159795009	PZ-115-SS	SM 4500-NH3 G	365384		
50159795010	PZ-114-AS	SM 4500-NH3 G	365384		
50158656001	PZ-111-SD	SM 5310C	361753		
50158656002	PZ-110-SS	SM 5310C	361753		
50158656003	PZ-109-SS	SM 5310C	361753		
50158656004	PZ-205-SS	SM 5310C	361753		
50158656005	PZ-106-SD	SM 5310C	361753		
50158656006	PZ-106-SS	SM 5310C	361753		
50158656008	PZ-105-SS	SM 5310C	361753		
50158656010	PZ-104-SD	SM 5310C	361753		
50158656011	PZ-104-SD Dup	SM 5310C	361753		
50158656018	PZ-100-SD	SM 5310C	362300		
50158656019	PZ-100-SS	SM 5310C	363353		
50158656020	FB@PZ-104-KS	SM 5310C	362300		
50158656021	PZ-104-KS	SM 5310C	363353		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton GW 4Q 2016
Pace Project No.: 50159795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50158656022	PZ-104-SS	SM 5310C	362300		
50159795006	PZ-201A-SS	SM 5310C	364214		
50159795009	PZ-115-SS	SM 5310C	364659		
50159795010	PZ-114-AS	SM 5310C	364659		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company: Republic Services - Missouri Landfills
Address: 3405 Hollenberg Drive
Bridgeton, MO 63044
Email: jwilkinson@feezorengineering.com
Phone: (636)578-8635 Fax:
Requested Due Date:

Section B — Required Project Information:

Report To: Jon Wilkinson
Copy To:
Purchase Order #:
Project Name: Bridgeton 3Q 2016
Project #:

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: chris.boyle@pacelabs.com,
Pace Profile #: 4762 / 1

Regulatory Agency:
State / Location: MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Ammonia, NO3/NO2, Phos	TOC, COD	Metals	8260 Full List	TDS, Cl, F, SO4	Trip BLANK	Gas	Sulfide	PCB's	8270 SVOC		Residual Chlorine (Y/N)	50159795
1	PZ-209-SS	WT	G		11/21/16		1045		9	4		1	3	1							X	X			X	X	X	X	3		001
2	PZ-209-SD						1154		9	4		1	3	1							X	X			X	X	X	X	3		002
3	PZ-209-SD DUP				11/21/16		1154		9	4		1	3	1							X	X			X	X	X	X	3		003
4	PZ-211-SD						1423		9	4		1	3	1							X	X			X	X	X	X	3		004
5	PZ-211-SS						1511		9	4		1	3	1							X	X			X	X	X	X	3		005
6	PZ-209A-SS				11/21/16		1601		7	1	2	1	3						X	X	X	X	X						1		006
7	PZ-210-SD				11/22/16		0946		9	4		1	3	1							X	X			X	X	X	X	3		007
8	PZ-210-SS						1039		9	4		1	3	1							X	X			X	X	X	X	3		008
9	PZ-115-SS						1337		7	1	2	1	3						X	X	X	X	X						1		009
10	PZ-114-AS						1249		7	1	2	1	3						X	X	X	X	X						1		010
11	Trip Blank				11/22/16		N/A		3				3																		
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	FEI	11/22/16	1700	FedEx	11/22/16	1700	
	FEDEX				11/23/16	0915	03-10 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER:

DATE Signed: 11/22/2016

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Redwood Mo

Project # 50159795

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

Tracking #: 7114 7425 9783

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

Date/Time 5035A kits placed in freezer _____

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

Thermometer 1 2 3 4 5 6 A B ~~C~~ D E F

Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.3-1.0/0.2-1.0 (Initial/Corrected)

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: [illegible] 11/23/16

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G. All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) ~~HNO3~~ ~~H2SO4~~ ~~NaOH~~ NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No	15
Trip Blank Custody Seals Present	☑Yes ☐No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Project Manager Review: [illegible] **Date:** 11-23-16

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Container Count

CLIENT: Republic MO

COC PAGE ____ of ____

COC ID# _____

Project # 50159795

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	SBS DI Bulk Kit R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	BP3Z			Matrix SI/WI/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3	2		2					1									1			WT	✓		✓
2																								
3																								
4																								
5																								
6										1	1	1												
7		2		2														1						✓
8		2		2														1						✓
9										1	1	1												
10										1	1	1												
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

CBB

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Republic Services - Missouri Landfills	Report To: Jon Wilkinson	Attention:
Address: ~~3495~~ Hollenberg Drive 3377 Hollenberg Drive	Copy To:	Company Name:
Bridgeton, MO 63044		Address:
Email: jwilkinson@feezorengineering.com	Purchase Order #:	Pace Quote:
Phone: (636)578-8635 Fax:	Project Name: Bridgeton 3Q 2016	Pace Project Manager: chris.boyle@pacelabs.com,
Requested Due Date: Std	Project #:	Pace Profile #: 4762 / 1

Regulatory Agency:

State / Location: MO

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Ammonia, NO3/NO2, Phos	TOC, COD	Metals	8260 Full List	TDS, Cl, F, SO4	Trip BLANK	Hg, Hardness	Sulfide	PCBs	8270 SVOC	Residual Chlorine (Y/N)	50158656
1	PZ-111-SD					11/9/16	0907		7	1	2	1	3						X	X	X	X	X							001
2	PZ-110-~~SD~~ SS						1016		7	1	2	1	3						X	X	X	X	X							002
3	PZ-109-SS						1123		7	1	2	1	3						X	X	X	X	X							003
4	PZ-205-SS						1408		7	1	2	1	3						X	X	X	X	X							004
5	PZ-106-SD						1523		7	1	2	1	3						X	X	X	X	X							005
6	PZ-106-SS					11/9/16	1622		7	1	2	1	3						X	X	X	X	X							006
7	PZ-116-SS					11/9/16	0937		7	1	2	1	3						X	X	X	X	X							007
8	PZ-105-SS						1126		7	1	2	1	3						X	X	X	X	X							008
9	PZ-202-SS						1440		7	1	2	1	3						X	X	X	X	X							009
10	PZ-104-SD						1600												X	X	X	X	X		X	X	X	X		010
11	PZ-104-SD DUP						1600												X	X	X	X	X		X	X	X	X		011
12	Trip Blank					11/9/16	N/A																	X						012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature] / FEI	11/9/16	1800	FedEx	11/9/16	1800				
	FedEx			[signature]	11-10-16	8:15	0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonatha Wilkinson

SIGNATURE of SAMPLER: [signature] DATE Signed: 11/9/2016

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Company:	Republic Services - Missouri Landfills
Address:	3405 Hollenberg Drive
	Bridgeton, MO 63044
Email:	jwilkinson@feezorengineering.com
Phone:	(636)578-8635 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	Jon Wilkinson
Copy To:	
Purchase Order #:	
Project Name:	Bridgeton 3Q 2016
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	chris.boyle@pacelabs.com,
Pace Profile #:	4762 / 1

CMD

Page : 1 Of 1

Regulatory Agency
State / Location
MO

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Ammonia, NO3/NO2, Phos	TOC, COD	Metals	8260 Full List	TDS, Cl, F, SO4	Trip BLANK	Residual Chlorine (Y/N)	50158656
1	MO-1-SDR					11/7/16	0950		7	1	2	1	3						X	X	X	X	X			013
2	MO-1-SS					11/7/16	1850		7	1	2	1	3						X	X	X	X	X			014
3	MO-3-SS					11/8/16	1040		7	1	2	1	3						X	X	X	X	X			015
4	MO-3-SD					11/8/16	1330		7	1	2	1	3						X	X	X	X	X			016
5	MO-2-SD					11/9/16	1240		7	1	2	1	3						X	X	X	X	X			017
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				FedEx	11/9/16	1900				
	FedEx			[illegible]	11-18-16	8:15	0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

CAB

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Republic Services - Missouri Landfills	Report To:	Jon Wilkinson	Attention:	
Address:	3405 Hollenberg Drive	Copy To:		Company Name:	
Bridgeton, MO 63044				Address:	
Email:	jwilkinson@feezorengineering.com	Purchase Order #:		Pace Quote:	
Phone:	(636)578-8635 Fax:	Project Name:	Bridgeton 3Q 2016	Pace Project Manager:	chris.boyle@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	4762 / 1

Regulatory Agency:

State / Location: MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Ammonia, NO3/NO2, Phos	TOC, COD	Metals	8260 Full List	TDS, Cl, F, SO4	Trip BLANK	Hg, Hardness	Sulfide	PCBs	SVOCs	Residual Chlorine (Y/N)	50158656
1	PZ-100-SD	WT	G			11/10/16	0841		7	1	2	1	3						X	X	X	X	X						1	-018
2	PZ-100-SS					9	0924		7	1	2	1	3						X	X	X	X	X							-019
3	FB@ PZ-104-KS					(JW) 0955	~~1119~~		12	5	2	1	3	1					X	X	X	X	X		X	X	X	X	2	-020
4	PZ-104-KS					9	1119		12	5	2	1	3	1					X	X	X	X	X		X	X	X	X	2	-021
5	PZ-104-SS						1401		12	5	2	1	3	1					X	X	X	X	X		X	X	X	X	2	-022
6	D-87					11/10/16	1544		7	1	2	1	3						X	X	X	X	X							-023
7	J-5					11/11/16	0911		7	1	2	1	3						X	X	X	X	X							-024
8	I-4					9	1113		7	1	2	1	3						X	X	X	X	X							-025
9	D-3						1212		7	1	2	1	3						X	X	X	X	X							-026
10	PZ-206-SS						1428		7	1	2	1	3						X	X	X	X	X							-027
11	PZ-205-AS						1515		7	1	2	1	3						X	X	X	X	X							-028
12	Trip Blank					11/11/16	N/A						3											X						-029

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	JW / FEI	11/11/16	1700	FedEx #'s	11/11/16	1700				
				8079 3328 6806						
				8079 3328 6817						
	Fedex			Alaina Jones	11/12/16	850	3.0	Y	Y	Y
							0.7			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER: [signature] DATE Signed: 11/11/2016

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	Republic Services - Missouri Landfills
Address:	3405 Hollenberg Drive
	Bridgeton, MO 63044
Email:	jwilkinson@feezorengineering.com
Phone:	(636)578-8635 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	Jon Wilkinson
Copy To:	
Purchase Order #:	
Project Name:	Bridgeton 3Q 2016
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	chris.boyle@pacelabs.com,
Pace Profile #:	4762 / 1

Regulatory Agency	
State / Location	MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	Ammonia, NO3/NO2, Phos	TOC, COD	Metals	8260 Full List	TDS, Cl, F, SO4	Trip BLANK							Residual Chlorine (Y/N)	50158656
1	PZ-207-AS	WT				11/14/16	0945		7	1	2	1	3						X	X	X	X	X	X									030
2	PZ-113-SS						1027		7	1	2	1	3						X	X	X	X	X										031
3	PZ-113-AD						1135		7	1	2	1	3						X	X	X	X	X										032
4	PZ-113-AS						1230		7	1	2	1	3						X	X	X	X	X										033
5	PZ-112-AS					11/14/16	1455		7	1	2	1	3						X	X	X	X	X										034
6	I-73					11/15/16	0823		7	1	2	1	3						X	X	X	X	X										035
7	PZ-107-SS						1012		7	1	2	1	3						X	X	X	X	X										036
8	MW-1204						1216		7	1	2	1	3						X	X	X	X	X										037
9	MW-1204 DUP						1216		7	1	2	1	3						X	X	X	X	X										038
10	PZ-101-SS						1505		7	1	2	1	3						X	X	X	X	X										039
11	PZ-102R-SS						1522		7	1	2	1	3						X	X	X	X	X										040
12	Trip Blank					11/15/16	N/A						3											X									041

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	J. Wilkinson / FEE	11/15/16	1300	FedEx	11/15/16	1300				
	FED EX			J. Swann	11-16-16	8:15	0.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jonathan E. Wilkinson
SIGNATURE of SAMPLER:	
DATE Signed:	11/15/2016

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic Services Project # 50158656

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

Tracking #: 7114742598 20

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

Date/Time 5035A kits placed in freezer _____

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

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 0.3 / 0.3 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: K-S 11-10-16

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	13 PZ-104-SB (3 vials) PZ-104-SB Dup (2 vials)
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CM **Date:** 11-17-16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic MO City Project # 50158657

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

Tracking #: 8079 3328 6817 / 6806

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

Date/Time 5035A kits placed in freezer _____

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

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 3.0/3.0, 0.7/0.7 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AS 11/12/16

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hunt **Date:** 11/12/16

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic Services Project # 50158656

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

Tracking #: 7114 7425 9761

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

Date/Time 5035A kits placed in freezer _____

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

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: (Wet) Blue None ☐ Samples on Ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 0.1/0.1 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: HS 11-16-16

		Comments:
Are samples from West Virginia?	☐Yes ☑No	1.
Document any containers out of temp.		
Chain of Custody Present:	☑Yes ☐No ☐N/A	2.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	3.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	4.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Containers Intact:	☑Yes ☐No ☐N/A	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No ☐N/A	15
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	15.
Sufficient Volume:	☑Yes ☐No ☐N/A	16.
Correct Containers Used:	☑Yes ☐No ☐N/A	17.

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: Headspace in vials, samples: 207-AS (1-vial) 113-AS (3-vials) 1204 Dup (1-vial) 112-AS (1-vial)

Project Manager Review: CBB **Date:** 11-17-16

Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

CLIENT: Republic Services

COC PAGE 1 of 2

COC ID#

Project # 50158656

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R Bulk Kit 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	GN	BP3Z		Matrix SI/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3								1	1	1	1									Wt	✓		
2																								
3																		1						
4																								
5																								
6																								
7																								
8																								
9																								
10		2		2															1					✓
11		2		2															1					✓
12	3				Trip Blank																			

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Republic Services

COC PAGE 2 of 2

COC ID# _____

Project # 50158656

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R Bulk Kit 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Sl/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3								1	1	1	1									WT	✓		
2	↓								↓	↓	↓	↓									↓	↓		
3	↓								↓	↓	↓	↓									↓	↓		
4	↓								↓	↓	↓	↓									↓	↓		
5	↓								↓	↓	↓	↓									↓	↓		
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Republic Mo city

COC PAGE 1 of 1

COC ID#

Project # 50158656

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R Bulk Kit 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U	BP32			Matrix SI/Wt/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3								1	1	1	1									WT	✓		
2	1								1	1	1	1												
3		2		2					1	1	1	1						1					✓	
4		2		2					1	1	1	1						1					✓	
5		2		2					1	1	1	1						1					✓	
6									1	1	1	1												
7																								
8																								
9																								
10																								
11																								
12	✓																				✓			

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

F-IN-Q-270-rev.06,11May2015

Sample Container Count

CLIENT: Republic Services

COC PAGE 1 of 1

COC ID# _____

Project # 50158656

Sample Line Item	DG9H VG9H	AG1U	WGFU	AG0U	R Bulk Kit	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/WI/Ot (Soil/Water/Other)	pH <2	pH >9	pH>12
1	3									1	1	1	1									WT			
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12							Trip Blank																		

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-100-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 485.75

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/10/2016 0900

Casing Diameter (inches): 2

Initial Water Level (feet): 29.77

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 30.06 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 455.98

Total Volume Purged (mL): 6,000

Ground Water Elevation Previous Event (ft, msl 455.69

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 89.12

Water Level after Purge (feet): 42.20

Well Total Depth Previous Event (feet): Top of pump = 89.13 Aug 2016

Date/Time Completed: 11/10/2016 0922

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 47 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 273 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 8,000 mL prior to first reading								
0910	3,000	16.4	7.09	830	5.93	1.06	56	WL: 36.44; clear
0914	3,850	16.4	7.08	823	4.42	1.11	67	WL: 37.96; clear
0918	4,900	16.4	7.07	819	5.45	1.13	69	WL: 39.92; clear
0922	6,000	16.4	7.08	821	4.51	1.01	64	WL: 42.20; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 42.20

Well Collection Sequence #: 12 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/10/2016 0924	273	16.4	7.08	821	4.51	1.81	64	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/10/2016 0725

End of day: (Date/time) 11/10/2016 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.25	N/A	NTU std = 0.02	N/A	0.29	NTU std 0.02
10.07	N/A	NTU std = 10.0	N/A	10.14	NTU std 10.0
995.6	N/A	NTU std = 1,000	N/A	~~971.4~~ 971.7	NTU std 1,000
1421	N/A	µS std = 1,413	N/A	1416	µS std = 1,413
Cell Const: 0.483	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.483	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @20.5 °C	N/A	7.04	pH std = 7.02 @21.1 °C
4.09	N/A	pH std = 4.00 @21.3 °C	N/A	4.12	pH std = 4.01 @22.5 °C
Slope: 1.03 @ Temp 23.5°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.13 @ Temp 20.1°C	Dissolved O_2 Slope Range: 0.6 to 1.25
242	N/A	ORP std = 222 @21.2 °C	N/A	232	ORP std = 222 @22.2 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from Nov 2012 - Sep 2016: 835 - 618 µS.

pH Prediction Limits = 6.6 - 8.0 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.83 - 7.27 s.u.

Well Closed and Locked?: (Y) N Full Suite Collected?: (Y) N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collects split - MO App I & tritium

Date: 11/10/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-100-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 485.72

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/10/2016 0815

Casing Diameter (inches): 2

Initial Water Level (feet): 32.55

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 32.35 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 453.17

Total Volume Purged (mL): 6,300 mL

Ground Water Elevation Previous Event (ft, msl 453.37

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 96.42

Water Level after Purge (feet): 44.90

Well Total Depth Previous Event (feet): Top of pump = 96.19 Aug 2016

Date/Time Completed: 11/10/2016 0839

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 262 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,000 mL prior to first reading								
0827	3000	16.0	7.20	628	6.76	0.61	11	WL:39.00 ; clear
0831	4250	16.0	7.20	629	5.06	0.48	4	WL:41.15 ; clear
0835	5200	16.0	7.22	629	4.37	0.43	10	WL:43.10 ; clear
0839	6300	16.0	7.22	628	4.16	0.40	14	WL:44.90 ; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 44.90

Well Collection Sequence #: 11 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/10/2016 0841	262	16.0	7.22	628	4.16	0.40	14	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/10/2016 0725

End of day: (Date/time) 11/10/2016 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.25	N/A	NTU std = 0.02	N/A	0.29	NTU std 0.02
10.07	N/A	NTU std = 10.0	N/A	10.14	NTU std 10.0
995.6	N/A	NTU std = 1,000	N/A	971.7	NTU std 1,000
1421	N/A	µS std = 1,413	N/A	1416	µS std = 1,413
Cell Const: 0.483	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.483	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @20.5 °C	N/A	7.04	pH std = 7.02 @21.1 °C
4.09	N/A	pH std 4.00 @21.3 °C	N/A	4.12	pH std = 4.01 @22.5 °C
Slope: 1.03	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.13	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 23.5°C	@ Temp N/A		@ Temp N/A	@ Temp 20.1°C	
242	N/A	ORP std = 222 @21.2 °C	N/A	232	ORP std = 222 @22.2 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 55°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 710 µS; Historical Range from Nov 2012 - Sep 2016: 567 - 826 µS.

pH Prediction Limits = 6.6 - 8.2 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.95 - 7.48 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected 8 - 7 Pace - 1 Eberline

MDNR collects split - MO App I & tritium

Date: 11/10/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.45

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/10/2016 1327

Casing Diameter (inches): 2

Initial Water Level (feet): 19.84

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 19.48 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 463.61

Total Volume Purged (mL): 10,150

Ground Water Elevation Previous Event (ft, msl) 463.97

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 140.32

Water Level after Purge (feet): 39.55

Well Total Depth Previous Event (feet): Top of pump = 140.35 Aug 2016

Date/Time Completed: 11/10/2016 ~~75~~ 1355

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 317 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								
1347	6,000	27.6	6.64	802	4.10	0.17	-143	WL: 31.02; clear
1351	7,250	27.5	6.62	799	4.13	0.15	-154	WL: 34.01; clear
1355	8,750	27.4	6.60	800	3.79	0.14	-163	WL: ~~38.70~~ 36.70; clear
1359	10,150	27.3	6.59	797	5.23	0.12	-173	WL: 39.55; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ___

Water Level @ Sampling (ft): 39.55

Well Collection Sequence #: 14 of ~~14~~ 49 (JL)

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ Assessment & MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/10/2016 1401	317	27.3	6.59	797	5.23	0.12	-173	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/10/2016 0725

End of day: (Date/time) 11/10/2016 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.25	N/A	NTU std = 0.02	N/A	0.29	NTU std 0.02
10.07	N/A	NTU std = 10.0	N/A	10.14	NTU std 10.0
995.6	N/A	NTU std = 1,000	N/A	971.7	NTU std 1,000
1421	N/A	µS std = 1,413	N/A	1416	µS std = 1,413
Cell Const: 0.483	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.483	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @20.5 °C	N/A	7.04	pH std = 7.02 @21.1 °C
4.09	N/A	pH std = 4.00 @21.3 °C	N/A	4.12	pH std = 4.01 @22.5 °C
Slope: 1.03	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.13	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 23.5°C	@ Temp N/A		@ Temp N/A	@ Temp 20.1°C	
242	N/A	ORP std = 222 @21.2°C	N/A	232	ORP std = 222 @22.2 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, ~~S Breeze 5 mph~~ Breezy (5), 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 930 µS; Historical Range from Nov 2012 - Sep 2016: 770 - 882 µS.

pH Prediction Limits = 6.2 - 8.5 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.48 - 7.1 s.u.

Well Closed and Locked?: Y / N Full Suite Collected?: Y / N # Bottles Collected: 13 - 12 Pace, 1 Eberline

MDNR collects split - Mo App I & tritium

Date: 11/10/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/9/2016 1528

Casing Diameter (inches): 2

Initial Water Level (feet): 20.81

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 20.80 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 462.70

Total Volume Purged (mL): 8,250 mL

Ground Water Elevation Previous Event (ft, msl 462.71

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 120.68

Water Level after Purge (feet): 25.05

Well Total Depth Previous Event (feet): Top of pump = 120.68 Aug 2016

Date/Time Completed: 11/9/2016 1558

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 65 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 275 mL / min * Sample aerated

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,000 mL prior to first reading								
1546	5,000	27.7	6.81	2070	5.58	0.55	-144	WL: 24.46 *
1550	5,900	27.6	6.80	2040	1.74	0.57	-147	WL: 24.65 *
1554	7,100	27.3	6.79	2060	2.31	0.83	-145	WL: 24.95 *
1558	8,250	27.2	6.77	2110	0.91	0.65	-147	WL: 25.05 *

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 25.05

Well Collection Sequence #: 10 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ Assessment & MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/9/2016 1600	275	27.2	6.77	2,110	0.91	0.65	-147	Clear; aerated

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/9/2016 0725

End of day: (Date/time) 11/9/2016 1810

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.11	N/A	NTU std = 0.02	N/A	0.10	NTU std 0.02
9.60	N/A	NTU std = 10.0	N/A	9.46	NTU std 10.0
970.7	N/A	NTU std = 1,000	N/A	1008	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1424	µS std = 1,413
Cell Const: 0.483	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.483	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.01 @ 21.3 °C	N/A	7.06	pH std = 7.03 @ 18.4 °C
4.09	N/A	pH std = 4.00 @ 21.1 °C	N/A	4.11	pH std = 4.00 @ 18.3 °C
Slope: 1.04	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.13	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 23.6°C	@ Temp N/A		@ Temp N/A	@ Temp 18.6°C	
223	N/A	ORP std = 222 @ 21.7 °C	N/A	242	ORP std = 227 @ 14.9 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 55°F

Sample Characteristics: Clear; aerated

COMMENTS AND OBSERVATIONS: MDNR collects split - Mo App I & tritium sp. cond calibration verified @ end of day

Sp. Cond. Prediction Limit = 1,500 µS; Historical Range from Nov 2012 - Sep 2016: 1258 - 2070 µS.

pH Prediction Limits = 6.2 - 8.2 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.39 - 6.96 s.u.

Well Closed and Locked?: Ⓨ / N Full Suite Collected?: Ⓨ / N # Bottles Collected: 13 - 12 Pace, 1 Eberline

Collect PZ-104-SD DUP; Sample aerated - unable to seal VOC vials w/out headspace

Date: _____ By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-KS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.95

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/10/2016 1010

Casing Diameter (inches): 2

Initial Water Level (feet): 16.72

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 16.73 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 467.23

Total Volume Purged (mL): 22,350 mL

Ground Water Elevation Previous Event (ft, msl) 467.22

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 93.09

Water Level after Purge (feet): 27.94

Well depth = 409.26

Well Total Depth Previous Event (feet): Top of pump = 93.09 Aug 2016

Date/Time Completed: 11/10/2016 1117

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 334 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 18,000 mL prior to first reading								
1103	18000	24.8	7.15	794	7.04	0.40	-84	WL: 27.80; clear
1109 ~~1107~~	19800	24.9	7.14	794	5.11	0.36	-83	WL: 27.93; clear
1113 ~~1111~~	21100	24.9	7.15	792	5.35	0.34	-80	WL: 28.00; clear
1117 ~~1115~~	22350	24.9	7.14	793	4.59	0.34	-87	WL: 27.94; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-KS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 27.94

Well Collection Sequence #: 13 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment & MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/10/2016 1114	334	24.9	7.14	793	4.59	0.34	-87	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/10/2016 0725

End of day: (Date/time) 11/10/2016 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111001B1

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.25	N/A	NTU std = 0.02	N/A	0.29	NTU std 0.02
10.07	N/A	NTU std = 10.0	N/A	10.14	NTU std 10.0
995.6	N/A	NTU std = 1,000	N/A	971.7	NTU std 1,000
1421	N/A	µS std = 1,413	N/A	1416	µS std = 1,413
Cell Const 0.483	Cell Const N/A	Cell Const Range: 0.45 - 0.50	Cell Const N/A	Cell Const 0.483	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @20.5 °C	N/A	7.04	pH std = 7.02 @21.1 °C
4.09	N/A	pH std = 4.00 @21.3 °C	N/A	4.12	pH std = 4.01 @22.5 °C
Slope: 1.03	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.13	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 23.5°C	@ Temp N/A		@ Temp N/A	@ Temp 20.1°C	
242	N/A	ORP std = 222 @21.2 °C	N/A	232	ORP std = 222 @22.2 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy (from S), 105°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) N Full Suite Collected?: (Y) N # Bottles Collected: 13 - 12 Pace 1 Eberline

collect FB @ PZ-104-KS @ 0955 - 13 bottles

MDNR collects split - No App I & trace

Date: 11/10/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-105-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/9/2016 1054

Casing Diameter (inches): 2

Initial Water Level (feet): 23.35

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 23.84 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 460.16

Total Volume Purged (mL): 10,400 mL

Ground Water Elevation Previous Event (ft, msl 459.67

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 144.86

Water Level after Purge (feet): 43.38

Well Total Depth Previous Event (feet): Top of pump = 144.93 Aug 2016

Date/Time Completed: 11/9/2016 1124

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: ~~77~~ 75 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 347 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								
1112	6000	19.7	7.03	1096	1.26	1.74	-85	WL: 35.22 ~~Sump~~ water is aerated - interfere w/D.O.
1116	7450	19.6	7.03	1090	2.45	1.37	-83	WL: 37.89; clear
1120	8950	19.5	7.02	1087	2.14	0.99	-80	WL: 40.59; clear
1124	10,400	19.5	7.02	1081	1.93	0.82	-76	WL: 43.38; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-105-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 43.38

Well Collection Sequence #: 8 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/9/2016 1126	347	19.5	7.02	1081	1.43	0.82	-76	Clear; aerated

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/9/2016 0725

End of day: (Date/time) 11/9/2016 1810

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.11	N/A	NTU std = 0.02	N/A	0.10	NTU std 0.02
9.60	N/A	NTU std = 10.0	N/A	9.46	NTU std 10.0
970.7	N/A	NTU std = 1,000	N/A	1000	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1424	µS std = 1,413
Cell Const: 0.483	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.483	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.01 @21.3 °C	N/A	7.06	pH std = 7.03 @ 18.4 °C
4.09	N/A	pH std = 4.00 @21.1 °C	N/A	4.11	pH std = 4.00 @ 18.3 °C
Slope: 1.04 @ Temp 23.6°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.13 @ Temp 18.6°C	Dissolved O_2 Slope Range: 0.6 to 1.25
223	N/A	ORP std = 222 @21.7°C	N/A	242	ORP std = 227 @14.9 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 60°F

Sample Characteristics: Clear; aerated

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,100 µS; Historical Range from Nov 2012 - Sep 2016: 942 - 1074 µS.

pH Prediction Limits = 6.7 - 8.3 s.u.; Historical Range from Nov 2012 - Sep 2016: 7.01 - 7.52 s.u.

Well Closed and Locked?: (Y)/ N Full Suite Collected?: (Y)/ N # Bottles Collected: 8 - 7 Pace - 1 Eberline

MDNR collects split - MO App I & tritium

Date: 11/9/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-106-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 462.71

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 1546

Casing Diameter (inches): 2

Initial Water Level (feet): 13.17

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 12.95 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 449.54

Total Volume Purged (mL): 10,200

Ground Water Elevation Previous Event (ft, msl 449.76

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 161.42

Water Level after Purge (feet): 29.09

Well Total Depth Previous Event (feet): Top of pump = 161.42 Aug 2016

Date/Time Completed: 11/8/2016 1620

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: ~~68~~ @ 45 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 300 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 7,000 mL prior to first reading								
1608	7,000	23.3	6.94	980	4.65	0.16	-87	WL: 25.02; clear
1612	8,000	23.2	6.95	978	3.36	0.15	-94	WL: 26.35; clear
1616	9,100	23.2	6.94	975	3.31	0.16	-91	WL: 27.70; clear
1620	10,200	23.1	6.95	973	3.41	0.15	-98	WL: 29.09; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 29.09

Well Collection Sequence #: 6 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ Assessment & MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 1622	300	23.1	6.95	973	3.41	0.15	-98	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110081 ~~# 08200255~~

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	8.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1037	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const: 0.489	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @ 18.4 °C	N/A	7.02	pH std = 7.02 @ 19.4 °C
4.00	N/A	pH std = 4.00 @ 18.6 °C	N/A	4.04	pH std = 4.00 @ 19.4 °C
Slope: 1.04	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.08	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 17.9°C	@ Temp N/A		@ Temp N/A	@ Temp 20.8°C	
244	N/A	ORP std = 224 @ 18.8 °C	N/A	235	ORP std = 223 @ 19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly, Cloudy, 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

sp. cond calibration verified @ end of day

Sp. Cond. Prediction Limit = 950 µS; Historical Range from Nov 2012 - Sep 2016: 710 - 939 µS.

pH Prediction Limits = 6.3 - 8.3 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.88 - 7.26 s.u.

Well Closed and Locked?: (Y) N Full Suite Collected? (Y) / N # Bottles Collected: 8 - 7 Pace - 1 Eurofins

MDNR collects split split - Mo App I & tritium

Date: 11/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-106-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 463.36

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 1443

Casing Diameter (inches): 2

Initial Water Level (feet): 13.72

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 13.40 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 449.64

Total Volume Purged (mL): 12,350

Ground Water Elevation Previous Event (ft, msl 449.96

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 196.48

Water Level after Purge (feet): 20.27

Well Total Depth Previous Event (feet): Top of pump = 196.29 Aug 2016

Date/Time Completed: 11/8/2016 1521

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 55 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 325 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 8,500 mL prior to first reading								
1509	8,500	23.7	6.82	2170	4.31	0.20	-112	WL: 19.85 ; clear
1513	9,800	23.6	6.83	2130	2.50	0.19	-110	WL: ~~20.0~~ 20.09 ; clear
1517	11,100	23.5	6.83	2120	1.67	0.17	-111	WL: 20.18 ; clear
1521	12,350	23.4	6.82	2110	1.41	0.17	-114	WL: 20.27 ; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 20.27

Well Collection Sequence #: 5 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ Assessment & MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 1523	325	23.4	6.82	2110	1.41	0.17	-114	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	8.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1037	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const: 0.489	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @ 18.4°C	N/A	7.02	pH std = 7.02 @ 19.4 °C
4.00	N/A	pH std = 4.00 @ 18.6°C	N/A	4.04	pH std = 4.00 @ 19.4 °C
Slope: 1.04	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.08	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 17.9°C	@ Temp N/A		@ Temp N/A	@ Temp 20.8°C	
244	N/A	ORP std = 224 @ 18.8°C	N/A	235	ORP std = 223 @ 19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

sp cond within recent historical range

Sp. Cond. Prediction Limit = 1,200 µS; Historical Range from Nov 2012 - Sep 2016: 827 - 6120 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.54 - 6.97 s.u.

Well Closed and Locked?: (Y) N Full Suite Collected?: (Y) N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collects split - MO App I & tritium

Date: 11/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-109-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 460.19

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 1048

Casing Diameter (inches): 2

Initial Water Level (feet): 28.12

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 25.07 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 432.07

Total Volume Purged (mL): 7,500 mL

Ground Water Elevation Previous Event (ft, msl) 435.12

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 130.98

Water Level after Purge (feet): 43.41

Well Total Depth Previous Event (feet): Top of pump = 130.99 Aug 2016

Date/Time Completed: 11/8/2016 1121

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: ~~70~~ 65 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 227 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,000 mL prior to first reading								
1109	5000	20.2	7.10	820	1.20	0.75	44	WL-38.22; clear
1113	5900	20.3	7.10	823	0.46	0.78	52	WL-39.81; clear
1117	6800	20.3	7.09	822	0.11	0.79	52	WL-41.58; clear
1121	7500	20.3	7.10	822	0.00	0.85	57	WL-43.41; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-109-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 43.41

Well Collection Sequence #: 3 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 1123	227	20.3	7.10	822	0.00	0.85	57	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111 0081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	8.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1037	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const: 0.489	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @18.4°C	N/A	7.02	pH std = 7.02 @19.4 °C
4.00	N/A	pH std = 4.00 @18.6°C	N/A	4.04	pH std = 4.00 @19.4 °C
Slope: 1.04	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.08	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 17.9°C	@ Temp N/A		@ Temp N/A	@ Temp 20.8°C	
244	N/A	ORP std = 224 @18.8°C	N/A	235	ORP std = 223 @19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Lt. Rain, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 990 µS; Historical Range from Nov 2012 - Sep 2016: 715 - 834 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.83 - 7.36 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 8 - 7 Pace, 1 Gloerline

MDNR collects split - No App I & tritium

Date: 11/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-110-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl): 461.15

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 0947

Casing Diameter (inches): 2

Initial Water Level (feet): 28.85

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 28.33 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 432.30

Total Volume Purged (mL): 7,600 mL

Ground Water Elevation Previous Event (ft, msl): 432.82

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 107.19

Water Level after Purge (feet): 31.95

Well Total Depth Previous Event (feet): Top of pump = 107.23 Aug 2016

Date/Time Completed: 11/8/2016 1014

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 282 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 4,000 mL prior to first reading								
1002	4000	15.9	6.70	1907	2.31	0.31	-24	WL: 31.47; clear
1006	5050	15.8	6.70	1905	2.48	0.36	-30	WL: 31.58; clear
1010	6300	15.8	6.70	1903	3.17	0.37	-33	WL: 31.82; clear
1014	7600	15.8	6.70	1901	3.51	0.35	-33	WL: 31.95; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-110-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 31.95

Well Collection Sequence #: 2 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 1016	282	15.8	6.70	1901	3.51	0.35	-33	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201118081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	0.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1037	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const 0.489	Cell Const N/A	Cell Const Range: 0.45 - 0.50	Cell Const N/A	Cell Const 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @ 19.4 °C	N/A	7.02	pH std = 7.02 @ 19.4 °C
4.00	N/A	pH std = 4.00 @ 18.6 °C	N/A	4.04	pH std = 4.00 @ 19.4 °C
Slope: 1.04	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.08	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 17.9°C	@ Temp N/A		@ Temp N/A	@ Temp 20.8°C	
244	N/A	ORP std = 224 @ 18.8 °C	N/A	235	ORP std = 223 @ 19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Drizzle, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 2,200 µS; Historical Range from Nov 2012 - Sep 2016: 1402 - 2080 µS.

pH Prediction Limits = 6.0 - 7.7 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.47 - 6.94 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collects split - Mo App I & tritium

Date: 11/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-111-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 466.46

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 0823

Casing Diameter (inches): 2

Initial Water Level (feet): 34.21

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 33.40 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 432.25

Total Volume Purged (mL): 12,700 mL

Ground Water Elevation Previous Event (ft, msl 433.06

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 197.70

Water Level after Purge (feet): 58.90

Well Total Depth Previous Event (feet): Top of pump = 198.83 Aug 2016

Date/Time Completed: 11/8/2016 0905

PURGE DATA: Discharge: ~~4.5~~ 3.5 sec (D) Refill: ~~6.0~~ 9.0 sec (D) 7.0 Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 302 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge ~~10,000~~ 9,000 mL prior to first reading								
0853	9,000	17.5	7.12	856	3.38	0.68	-41	WL: 52.20; clear
0857	10,300	17.5	7.12	855	2.47	0.63	-41	WL: 54.39; clear
0901	11,500	17.6	7.12	855	1.67	0.93	-40	WL: 56.69; clear
0905	12,700	17.5	7.12	853	1.59	0.83	-33	WL: 58.90; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-111-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 58.90

Well Collection Sequence #: 1 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 0907	302	17.5	7.12	853	1.59	0.83	-53	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 09E00255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	8.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1027	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const: 0.489	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @18.4°C	N/A	7.02	pH std = 7.02 @19.4 °C
4.00	N/A	pH std = 4.00 @18.4°C	N/A	4.04	pH std = 4.00 @19.4 °C
Slope: 1.04 @ Temp 17.9°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.08 @ Temp 20.8°C	Dissolved O_2 Slope Range: 0.6 to 1.25
244	N/A	ORP std = 224 @18.8°C	N/A	235	ORP std = 223 @19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from Nov 2012 - Sep 2016: 697 - 851 µS.

pH Prediction Limits = 6.4 - 8.1 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.89 - 7.43 s.u.

Well Closed and Locked?: (Y)/ N Full Suite Collected?: (Y)/ N # Bottles Collected: 8 - 7 Plastic - 1 Glass

MDNR collects split - MO App I & trip

Date: 11/8/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-114-AS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 451.26

PURGE INFORMATION:

Method of Well Purge: (JW) Peristaltic ~~Bladder Pump~~

Dedicated Equipment: Yes ✓ (JW) No ✓

Date/Time Initiated: 11/22/2016 ~~1218~~ 1221

Casing Diameter (inches): 2

Initial Water Level (feet): 18.88

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 18.33 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 432.38

Total Volume Purged (mL): 5,350 mL

1HT

Ground Water Elevation Previous Event (ft, msl 432.93

Purged Dry?: Yes ____ No ✓

Well Total Depth (feet): Top of Pump = 26.32

Water Level after Purge (feet): 18.85

Well Total Depth Previous Event (feet): Top of pump = 26.22 Aug 2016

Date/Time Completed: 11/22/2016 1247

PURGE DATA: Discharge: 3.0 sec Refill: 5.0 sec Pressure: 20 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 206 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 500 mL prior to first reading								
1223	500	15.8	6.79	1313	41.67	0.56	-79	WL: 18.83; clear
1227	1,400	15.8	6.67	1411	33.62	0.30	-92	WL: 18.85; clear
1231	2,000	15.7	6.62	1592	42.17	0.26	-99	WL: 18.85; gray
1235	2,700	15.8	6.61	1853	41.12	0.22	-103	WL: 18.86; clear
1239	3,550	15.8	6.63	2140	35.75	0.23	-107	WL: 18.85; clear
1243	4,400	15.8	6.64	2270	22.74	0.23	-109	WL: 18.85; clear
1247	5,350	15.8	6.64	2320	16.86	0.24	-112	WL: 18.85; clear
1251 (JW)								

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION: Peristaltic *

Sample Point ID: PZ-114-AS

Sampling Method: ~~Bladder Pump~~

Dedicated: Yes ✓ No ✓

Water Level @ Sampling (ft): 18.85

Well Collection Sequence #: 49 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/22/2016 1249	206	15.8	6.64	2320	16.86	0.24	-112	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/22/2016 0725

End of day: (Date/time) 11/22/2016 1520

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.99	NTU std 0.02
9.65	N/A	NTU std = 10.0	N/A	11.09	NTU std 10.0
1005	N/A	NTU std = 1,000	N/A	943.4	NTU std 1,000
1423	N/A	µS std = 1,413	N/A	1384	µS std = 1,413
Cell Const: 0.486	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.486	Cell Const Range: 0.45 - 0.50
7.01	N/A	pH std = 7.02 @ 20.8 °C	N/A	6.94	pH std = 7.00 @ 16.3 °C
4.10	N/A	pH std = 4.00 @ 21.1 °C	N/A	4.24	pH std = 4.00 @ 16.2 °C
Slope: 1.00	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.04	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.9°C	@ Temp N/A		@ Temp N/A	@ Temp 14.1°C	
248	N/A	ORP std = 223 @ 20.7 °C	N/A	242	ORP std = 225 @ 16.5 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,400 µS; Historical Range from Nov 2012 - Sep 2016: 1556 - 2740 µS.

pH Prediction Limits = 6.2 - 7.0 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.54 - 6.72 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 7

Bladder pump inoperable - pulled pump & purged / sampled via peristaltic pump

Date: 11/22/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-115-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 452.27

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/22/2016 1114

Casing Diameter (inches): 2

Initial Water Level (feet): 15.95

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 15.30 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 436.37

Total Volume Purged (mL): 7,600

Ground Water Elevation Previous Event (ft, msl) 436.97

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 81.11

Water Level after Purge (feet): ~~21~~ 21.31

Well Total Depth Previous Event (feet): Top of pump = 81.04 Aug 2016

Date/Time Completed: 11/22/2016 1135

PURGE DATA: Discharge: 5.5 sec Refill: 6.0 sec Pressure: 45 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 362 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading								
1123	3,500	15.8	6.70	2560	3.38	0.12	-59	WL: 20.01; clear
1127	5,100	15.6	6.68	2520	2.95	0.13	-54	WL: 20.98; clear
1131	6,450	15.6	6.67	2520	2.91	0.16	-56	WL: 21.19; clear
1135	7,600	15.6	6.67	2500	3.00	0.19	-55	WL: 21.31; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-115-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 21.31

Well Collection Sequence #: 48 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/22/2016 1137	362	15.6	6.67	2500	3.00	0.19	-55	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/22/2016 0725

End of day: (Date/time) 11/22/2016 1500

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.99	NTU std 0.02
9.65	N/A	NTU std = 10.0	N/A	11.09	NTU std 10.0
1005	N/A	NTU std = 1,000	N/A	948.4	NTU std 1,000
1423	N/A	µS std = 1,413	N/A	1384	µS std = 1,413
Cell Const: 0.486	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.486	Cell Const Range: 0.45 - 0.50
7.01	N/A	pH std = 7.02 @20.2 °C	N/A	6.94	pH std = 7.00 @16.3 °C
4.10	N/A	pH std = 4.00 @21.1 °C	N/A	4.24	pH std = 4.00 @16.2 °C
Slope: 1.00	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.04	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.9°C	@ Temp N/A		@ Temp N/A	@ Temp 14.1°C	
248	N/A	ORP std = 223 @20.7°C	N/A	242	ORP std = 225 @16.9°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,500 µS; Historical Range from Nov 2012 - Sep 2016: 1329 - 2740 µS.

pH Prediction Limits = 6.0 - 7.6 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.6 - 6.88 s.u.

Well Closed and Locked? (Y) N Full Suite Collected? (Y) N # Bottles Collected: 7

Date: 11/22/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-201A-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 480.20

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/21/2016 1534

Casing Diameter (inches): 2

Initial Water Level (feet): 12.08

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 10.51 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 468.12

Total Volume Purged (mL): 6,300 mL

Ground Water Elevation Previous Event (ft, msl) 469.69

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 86.12

Water Level after Purge (feet): 25.31

Well Total Depth Previous Event (feet): Top of pump = 86.34 Aug 2016

Date/Time Completed: 11/21/2016 1509

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 255 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading								
1547	3,500	17.1	7.17	765	5.59	1.31	-44	WL: 19.82; clear
1551	4,400	16.9	7.18	755	3.63	1.49	-33	WL: 21.23; clear
1555	5,400	16.9	7.15	758	3.49	1.69	-24	WL: 23.25; clear
1559	6,300	16.7	7.17	753	3.40	1.90	-17	WL: 25.31; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-201A-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft):

Well Collection Sequence #: 45 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/21/2016 1601	255	16.7	7.17	753	3.40	1.90	-17	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/21/2016 0930

End of day: (Date/time) 11/21/2016 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #04180084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.02	N/A	NTU std = 0.02	N/A	0.14	NTU std 0.02
10.08	N/A	NTU std = 10.0	N/A	11.94	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	>1100	NTU std 1,000
1420	N/A	µS std = 1,413	N/A	1418	µS std = 1,413
Cell Const: 0.492	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.492	Cell Const Range: 0.45 - 0.50
6.98	N/A	pH std = 7.02 @21.2 °C	N/A	7.08	pH std = 7.04 @16.0 °C
4.12	N/A	pH std = 4.00 @21.5 °C	N/A	4.23	pH std = 4.00 @16.0 °C
Slope: 0.98	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.03	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.5°C	@ Temp N/A		@ Temp N/A	@ Temp 14.9°C	
252	N/A	ORP std = 222 @21.1 °C	N/A	234	ORP std = 225 @17.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 8 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 970 µS; Historical Range from Nov 2012 - Sep 2016: 766 - 856 µS.

pH Prediction Limits = 6.4 - 8.5 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.91 - 7.21 s.u.

Well Closed and Locked?: (Y) N Full Suite Collected?: (Y) N # Bottles Collected: 7

Date: 11/21/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-205-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 465.83

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/8/2016 1340

Casing Diameter (inches): 2

Initial Water Level (feet): 38.12

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 30.04 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 435.71

Total Volume Purged (mL): 6,200 mL

Ground Water Elevation Previous Event (ft, msl 435.79

Purged Dry?: Yes ____ No ✓

Well Total Depth (feet): Top of Pump = 92.98

Water Level after Purge (feet): 42.38

Well Total Depth Previous Event (feet): Top of pump = 93.00 Aug 2016

Date/Time Completed: 11/8/2016 1406

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 238 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,000 3500 mL prior to first reading								
1354	3500	19.3	7.02	925	1.83	1.83	85	WL: 37.49; clear
1353	~~452~~ 4250	19.3	7.02	926	2.46	1.66	93	WL: 38.75; clear
1402	5250	19.3	7.01	922	2.20	1.56	96	WL: 40.52. clear
1406	6200	19.3	7.01	921	2.71	1.53	99	WL: 42.38; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-205-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 42.38

Well Collection Sequence #: 4 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/8/2016 1408	238	19.3	7.01	921	2.71	1.53	99	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/8/2016 0720

End of day: (Date/time) 11/8/2016 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.00	NTU std 0.02
10.15	N/A	NTU std = 10.0	N/A	8.89	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1037	NTU std 1,000
1432	N/A	µS std = 1,413	N/A	1437	µS std = 1,413
Cell Const: 0.489	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.489	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.03 @18.4 °C	N/A	7.02	pH std = 7.02 @19.4 °C
4.00	N/A	pH std = 4.00 @18.6 °C	N/A	4.04	pH std = 4.00 @19.4 °C
Slope: 1.04 @ Temp 17.9°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.02 @ Temp 20.8°C	Dissolved O_2 Slope Range: 0.6 to 1.25
244	N/A	ORP std = 224 @18.2 °C	N/A	235	ORP std = 223 @19.4 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,300 µS; Historical Range from Nov 2012 - Sep 2016: 762 - 936 µS.

pH Prediction Limits = 6.5 - 7.9 s.u.; Historical Range from Nov 2012 - Sep 2016: 6.86 - 7.27 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 8 - 7 Pace - 1 Eberline

MDNR collects split - MO App I & tritium

Date: 11/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-209-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 489.68

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/21/2016 1008

Casing Diameter (inches): 2

Initial Water Level (feet): 21.60

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 21.14 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 468.00

Total Volume Purged (mL): 9,500 mL

Ground Water Elevation Previous Event (ft, msl 468.54

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 99.91

Water Level after Purge (feet): 38.98

Well Total Depth Previous Event (feet): Top of pump = 99.88 Aug 2016

Date/Time Completed: 11/21/2016 1043

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD = 152.70

Average Purge Rate: 271 mL / min 0.29

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,500 mL prior to first reading								
1031	6,500	14.2	7.23	700	4.95	~~7.61~~	-149	WL=33.53; clear
1035	7,200	14.3	7.25	707	5.38	0.28	-155	WL=35.20; clear
1039	8,450	14.3	7.28	700	6.49	0.26	-165	WL=37.21; clear
1043	9,500	14.3	7.28	697	7.23	0.23	-170	WL=38.98; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-209-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 38.98

Well Collection Sequence #: 41 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/21/16 1045	271	14.3	7.28	697	7.23	0.23	-170	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/21/2016 0730

End of day: (Date/time) 11/21/2016 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111008I

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.02	N/A	NTU std = 0.02	N/A	0.14	NTU std 0.02
10.08	N/A	NTU std = 10.0	N/A	11.74	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	>1100	NTU std 1,000
1420	N/A	µS std = 1,413	N/A	1418	µS std = 1,413
Cell Const: 0.492	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.492	Cell Const Range: 0.45 - 0.50
6.98	N/A	pH std = 7.02 @21.2 °C	N/A	7.08	pH std = 7.04 @ 16.0 °C
4.12	N/A	pH std = 4.00 @21.5 °C	N/A	4.23	pH std = 4.00 @ 16.0 °C
Slope: 0.98 @ Temp 22.5°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.03 @ Temp 14.9°C	Dissolved O_2 Slope Range: 0.6 to 1.25
252	N/A	ORP std = 222 @21.1 °C	N/A	234	ORP std = 225 @ 17.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, ~~50°F~~ 35°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS: 4 Neat, 3 VOAs, 1 metals, 1 Sus

Well Closed and Locked?: Y / N Full Suite Collected?: Y N # Bottles Collected: 9

Date: 11/21/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-209-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 489.58

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/21/2016 1100

Casing Diameter (inches): 2

Initial Water Level (feet): 23.41

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 23.05 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 466.17

Total Volume Purged (mL): 14,200 mL

Ground Water Elevation Previous Event (ft, msl 466.53

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 101.42

Water Level after Purge (feet): 48.90

Well Total Depth Previous Event (feet): Top of pump = 101.40 Aug 2016

Date/Time Completed: 11/21/2016 1152

PURGE DATA: Discharge: 4.0 sec Refill: 7.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD = 253.05

Average Purge Rate: 233 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 11,000 mL prior to first reading								
1140	11,000	14.4	7.25	811	8.14	0.26	-172	WL: 43.45; clear
1144	12,100	14.4	7.26	807	4.85	0.23	-172	WL: 45.31; clear
1148	13,100	14.4	7.27	809	3.89	0.22	-174	WL: 47.12; clear
1152	14,200	14.5	7.26	805	3.61	0.20	-179	WL: 48.90; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-209-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): ~~273~~ 48.40

Well Collection Sequence #: 42 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/21/2016 1154	273	14.5	7.26	805	3.61	0.20	-179	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/21/2016 0730

End of day: (Date/time) 11/21/2016 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 0948 0084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.02	N/A	NTU std = 0.02	N/A	0.04	NTU std 0.02
10.08	N/A	NTU std = 10.0	N/A	11.74	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	>1100	NTU std 1,000
1420	N/A	µS std = 1,413	N/A	1418	µS std = 1,413
Cell Const: 0.492	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.492	Cell Const Range: 0.45 - 0.50
6.98	N/A	pH std = 7.02 @21.2°C	N/A	7.08	pH std = 7.04 @16.0 °C
4.12	N/A	pH std = 4.00 @21.5°C	N/A	4.23	pH std = 4.00 @16.0 °C
Slope: 0.98	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.03	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.5°C	@ Temp N/A		@ Temp N/A	@ Temp 14.9°C	
252	N/A	ORP std = 222 @21.1°C	N/A	234	ORP std = 225 @17.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 35°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked?: (Y) N Full Suite Collected? (Y) / N # Bottles Collected: 9

Collect PZ-209-SD DUP @ 1154 - 9 bottles

Date: 11/21/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-210-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 486.90

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/22/2016 0958

Casing Diameter (inches): 2

Initial Water Level (feet): 24.94

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 25.12 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.96

Total Volume Purged (mL): 8,950 mL

Ground Water Elevation Previous Event (ft, msl 461.78

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 101.49

Water Level after Purge (feet): 41.33

Well Total Depth Previous Event (feet): Top of pump = 101.50 Aug 2016

Date/Time Completed: 11/22/2016 1037

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD = 150.39 Average Purge Rate: 230 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								
1025	6,000	15.3	7.17	760	3.61	0.52	-95	WL: 36.10; clear
1029	6,750	15.3	7.18	765	2.68	0.45	-92	WL: 37.38; clear
1033	7,800	15.4	7.17	765	2.29	0.34	-97	WL: 39.25; clear
1037	8,950	15.3	7.18	765	2.03	0.28	-98	WL: 41.33; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-210-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 41.33

Well Collection Sequence #: 47 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/22/2016 1039	280	15.3	7.18	765	2.83	0.28	-98	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/22/2016 0725

End of day: (Date/time) 11/22/2016 1500

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20140081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.99	NTU std 0.02
9.65	N/A	NTU std = 10.0	N/A	11.09	NTU std 10.0
1005	N/A	NTU std = 1,000	N/A	948.4	NTU std 1,000
1423	N/A	µS std = 1,413	N/A	1384	µS std = 1,413
Cell Const: 0.486	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.486	Cell Const Range: 0.45 - 0.50
7.01	N/A	pH std = 7.02 @ 20.8 °C	N/A	6.94	pH std = 7.00 @ 16.3 °C
4.10	N/A	pH std = 4.00 @ 21.1 °C	N/A	4.24	pH std = 4.00 @ 16.2 °C
Slope: 1.00 @ Temp 22.9°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.04 @ Temp 14.1°C	Dissolved O_2 Slope Range: 0.6 to 1.25
248	N/A	ORP std = 223 @ 20.7 °C	N/A	242	ORP std = 225 @ 16.9 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked?: (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 9

Date: 11/22/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-210-SD

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 487.00

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/22/2016 0847

Casing Diameter (inches): 2

Initial Water Level (feet): 25.72

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 26.03 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.28

Total Volume Purged (mL): 14,000 mL

Ground Water Elevation Previous Event (ft, msl 460.97

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 101.65

Water Level after Purge (feet): 49.40

Well Total Depth Previous Event (feet): Top of pump = 101.57 Aug 2016

Date/Time Completed: 11/22/2016 0944

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD = 250.13 Average Purge Rate: 246 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 11,000 mL prior to first reading								
0932	11,000	15.4	7.14	943	1.35	0.39	-126	WL=44.62; clear
0936	11,850	15.3	7.15	941	2.14	0.31	-125	WL=45.98; clear
0940	12,900	15.5	7.14	936	1.79	0.28	-130	WL=47.62; clear
0944	14,000	15.4	7.15	942	3.11	0.25	-131	WL=49.40; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-210-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 49.40

Well Collection Sequence #: 46 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/22/2016 0945	246	15.4	7.15	942	3.11	0.25	-131	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/22/2016 0725

End of day: (Date/time) 11/22/2016 1500

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 04800084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.99	NTU std 0.02
9.65	N/A	NTU std = 10.0	N/A	11.09	NTU std 10.0
1005	N/A	NTU std = 1,000	N/A	948.4	NTU std 1,000
1423	N/A	µS std = 1,413	N/A	1384	µS std = 1,413
Cell Const: 0.486	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.486	Cell Const Range: 0.45 - 0.50
7.01	N/A	pH std = 7.02 @20.8 °C	N/A	6.94	pH std = 7.00 @16.3 °C
4.10	N/A	pH std = 4.00 @21.1 °C	N/A	4.24	pH std = 4.00 @16.2 °C
Slope: 1.00	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.04	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.9°C	@ Temp N/A		@ Temp N/A	@ Temp 14.1°C	
248	N/A	ORP std = 223 @20.7 °C	N/A	242	ORP std = 225 @16.9 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 40°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked?: (Y) N Full Suite Collected? (Y) / N # Bottles Collected: 4

Date: 11/22/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-211-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

Top of Casing (ft, msl) 487.41

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/21/2016 1438

Casing Diameter (inches): 2

Initial Water Level (feet): 19.97

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 19.57 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 467.44

Total Volume Purged (mL): 9,650 mL

Ground Water Elevation Previous Event (ft, msl 467.84

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 98.15

Water Level after Purge (feet): 38.50

Well Total Depth Previous Event (feet): Top of pump = 98.15 Aug 2016

Date/Time Completed: 11/21/2016 1505

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 52 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD = 149.99

Average Purge Rate: 311 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								
1457	6,000	15.2	7.29	688	7.72	0.37	-175	wl: 31.91 ; clear
1501	7,300	14.9	7.28	694	8.15	0.27	-179	wl: 33.98 ; clear
1505	8,450	14.9	7.28	684	8.50	0.24	-180	wl: 36.33 ; clear
1509	9,650	14.8	7.28	681	9.12	0.20	-181	wl: 38.50 ; clear

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-211-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 38.50

Well Collection Sequence #: 44 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/21/2016 1511	311	14.8	7.28	681	9.12	0.20	-181	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/21/2016 0730

End of day: (Date/time) 11/21/2016 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111081

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08120255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 04480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.02	N/A	NTU std = 0.02	N/A	0.14	NTU std 0.02
10.02	N/A	NTU std = 10.0	N/A	11.74	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	>1100	NTU std 1,000
1420	N/A	µS std = 1,413	N/A	1418	µS std = 1,413
Cell Const: 0.492	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.492	Cell Const Range: 0.45 - 0.50
6.98	N/A	pH std = 7.02 @21.2 °C	N/A	7.08	pH std = 7.04 @16.0 °C
4.12	N/A	pH std = 4.00 @21.5 °C	N/A	4.23	pH std = 4.00 @16.0 °C
Slope: 0.98	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.03	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.5°C	@ Temp N/A		@ Temp N/A	@ Temp 14.9°C	
252	N/A	ORP std = 222 @21.1 °C	N/A	234	ORP std = 225 @17.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Cloudy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 9

Date: 11/21/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-211-SD

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 487.46

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/21/2016 1335

Casing Diameter (inches): 2

Initial Water Level (feet): 22.05

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 21.71 Aug 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 465.41

Total Volume Purged (mL): 14,750 mL

Ground Water Elevation Previous Event (ft, msl 465.75

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 99.33

Water Level after Purge (feet): 47.69

Well Total Depth Previous Event (feet): Top of pump = 99.35 Aug 2016

Date/Time Completed: 11/21/2016 1421

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 52 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

TD - 249.92 Average Purge Rate: 321 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 11,000 mL prior to first reading								
1409	11,000	14.7	7.42	943	29.55	0.22	-208	WL = 40.81; clear
1413	12,300	14.7	7.43	949	26.23	0.21	-213	WL: 43.14; clear
1417	13,400	14.7	7.43	948	19.77	0.19	-221	WL: 45.36; clear
1421	14,750	14.7	7.42	943	14.69	0.18	-221	WL: 47.69; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-211-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 47.69

Well Collection Sequence #: 43 of 49

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
11/21/2016 1423	321	14.7	7.42	943	14.69	0.18	-221	clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/21/2016 0730

End of day: (Date/time) 11/21/2016 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111008I

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.02	N/A	NTU std = 0.02	N/A	0.14	NTU std 0.02
10.08	N/A	NTU std = 10.0	N/A	16.74	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	>1100	NTU std 1,000
1420	N/A	µS std = 1,413	N/A	1418	µS std = 1,413
Cell Const 0.492	Cell Const N/A	Cell Const Range: 0.45 - 0.50	Cell Const N/A	Cell Const 0.492	Cell Const Range: 0.45 - 0.50
6.98	N/A	pH std = 7.02 @21.2°C	N/A	7.08	pH std = 7.04 @16.0 °C
4.12	N/A	pH std = 4.00 @21.5°C	N/A	4.23	pH std = 4.00 @16.0 °C
Slope: 0.98	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.03	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 22.5°C	@ Temp N/A		@ Temp N/A	@ Temp 14.9°C	
252	N/A	ORP std = 222 @21.1°C	N/A	224	ORP std = 225 @17.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: P. Cloudy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 9

Date: 11/21/2016 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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