JETT ENVIRONMENTAL CONSULTING

January 23, 2018

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 Fourth Quarter 2017 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 2017 Sampling Event

Bridgeton Landfill, LLC
Bridgeton Landfill
Bridgeton, Missouri

MO DNR PERMIT No. 118912

January 2018

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 2017 quarterly groundwater monitoring event. Sampling for the Fourth Quarter 2017 event was conducted by Feezor Engineering, Inc. on November 6, 7, and 13, 2017. Laboratory analytical testing was performed by Pace Analytical Services, LLC. 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 2017 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 Second Quarter 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. As discussed in the Groundwater Statistical Analysis Report for the Third Quarter 2017 event, inorganic results from PZ-104SS and PZ-104-SD from Second Quarter 2017 have been deemed anomalous and will not be utilized in future statistical evaluations of PZ-104-SS and PZ-104-SD.

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 2.5% per event for a quarterly 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 2017 event. During Second Quarter 2017, well PZ-110-SS was not able to be sampled due to inadvertent damage by one of the on-site contractors. The Missouri Geological Survey Wellhead Protection Division and MDNR were notified of the damaged well on May 2, 2017, and a letter was submitted to MDNR on July 24, 2017 describing the techniques that will be utilized for well abandonment and replacement. Well PZ-110-SS was abandoned on August 14, 2017. Replacement well PZ-111-SS installation was completed on August 29, 2017 and was able to be initially sampled during the Third Quarter 2017 event. The Fourth Quarter 2017 event is considered the second of four quarterly background sampling events for PZ-111-SS. Well PZ-111-SS will be statistically evaluated after four rounds of statistically representative data have been collected from the well.

A field duplicate was collected at well PZ-106-SD. A field blank was collected at well PZ-104-SD. 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 dissolved solids (27% 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. **Appendix A** provides a copy of the duplicate analysis comparison.

There were no detections above laboratory RLs in the field blank or trip blanks, with the exception of field blank detections of total calcium, iron, magnesium, manganese, and hardness.

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 2, 2017. **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 2017 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 2017 event. Intra-well prediction limit summary tables and graphs are presented in **Appendices C**, **D**, and **E**.

For the Fourth Quarter 2017 event, there were two results that exceeded an intra-well prediction limit in the Alluvial Zone (see **Table 2**).

There were sixteen results that exceeded their respective intra-well prediction limits in the St. Louis Formation Zone (see **Table 2**) during the Fourth Quarter 2017 event.

There were nine results that exceeded their respective intra-well prediction limits in the Salem Formation Zone (see **Table 2**) during the Fourth Quarter 2017 event.

Of the twenty-seven prediction limit exceedances observed for the Fourth Quarter 2017 event, each was also observed during the previous two monitoring event, with the exception of total phosphorus at Alluvial Zone well PZ-114-AS; total calcium and total hardness at St. Louis Formation Zone well PZ-106-SS; and chloride at St. Louis Formation Zone well PZ-201A-SS. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (First Quarter 2018) will be used to confirm the new exceedances.

The Fourth Quarter 2017 event served as a confirmatory event for the one new prediction limit exceedance that was observed for the Third Quarter 2017 event: total barium at PZ-114-AS. The new exceedance observed for the Third Quarter 2017 event was confirmed as an exceedance for the Fourth Quarter 2017 event.

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 twenty-three constituent-well pairs that exhibited confirmed intra-well prediction limit exceedances for the Fourth Quarter 2017 event, twenty-two also exhibited increasing statistical trends. Field specific conductance at PZ-106-SD did not exhibit an increasing statistical upward trend. The St. Louis Formation Zone concentrations have exhibited decreasing levels over at least the last five to ten years, with the exception of PZ-106-SS. The Salem Formation Zone concentrations have exhibited stable to decreasing levels over the last two to four years.

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 VOC detection and each of the constituents that were statistically evaluated in this report.

4.5 Organic Constituent Results

During the Fourth Quarter 2017 monitoring event, typical organic constituents were detected at three wells: Alluvial Zone well PZ-114-AS, St. Louis Formation Zone well PZ-104-SS, and Salem Formation Zone well PZ-104-SD. Wells PZ-105-SS, PZ-115-SS, and PZ-114-AS exhibited low level methylene chloride detections, however each detection was flagged by the laboratory as also detected in the associated laboratory method blank. Therefore, the methylene chloride detections for the Fourth Quarter 2017 event are attributable to laboratory artifacts and do not represent confirmed groundwater detections. Methylene chloride was also flagged in the laboratory report as a common lab contaminant. The low level methylene chloride detections will be verified during the next quarterly event (First Quarter 2018).

1,4-Dichlorobenzene, benzene, and chlorobenzene were detected at upgradient Alluvial Zone well PZ-114-AS. 1,4-Dichlorobenzene has been detected at PZ-114-AS since 2002. Benzene has been detected at PZ-114-AS since 2003. Chlorobenzene has been detected at PZ-114-AS since 1997. **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: benzene and methyl-tert-butyl ether. 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 Fourth Quarter 2017 benzene concentration at PZ-104-SS was the lowest measured since March 2016. The confirmed organic constituent detections at PZ-104-SS are currently being evaluated under the assessment monitoring program, as detailed in the original December 17, 2013 Assessment Monitoring Plan (AMP).

The following organic constituents were detected at well PZ-104-SD: benzene, tetrahydrofuran, 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 organic concentrations at PZ-104-SD have decreased significantly over the last two quarterly events. 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 2017 monitoring event, there were two results that exceeded an intra-well prediction limit in the Alluvial Zone. There were sixteen results that exceeded their respective limits in the St. Louis Formation Zone. There were nine results that exceeded their respective limits in the Salem Formation Zone.

Of the twenty-seven prediction limit exceedances observed for the Fourth Quarter 2017 event, each was also observed during the previous two monitoring event, with the exception of total phosphorus at Alluvial Zone well PZ-114-AS; total calcium and total hardness at St. Louis Formation Zone well PZ-106-SS; and chloride at St. Louis Formation Zone well PZ-201A-SS (see **Table 2)**. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (First Quarter 2018) will be used to confirm the new exceedances.

The Fourth Quarter 2017 event served as a confirmatory event for the one new prediction limit exceedance that was observed for the Third Quarter 2017 event: total barium at PZ-114-AS. The new exceedance observed for the Third Quarter 2017 event was confirmed as an exceedance for the Fourth Quarter 2017 event.

Well PZ-104-SD exhibited confirmed exceedances and upward trends for the following inorganic constituents in Fourth Quarter 2017: total barium, chloride, total sodium, field specific conductance, TDS, and TOC. However, each of the upward trending inorganic constituents have been reported at stable to decreasing levels over the last three to four years. PZ-104-SD also exhibited confirmed detections for the following organic constituents: benzene, tetrahydrofuran, and total xylenes. VOC concentrations at PZ-104-SD have been trending downward over at least the last three years. As noted above, PZ-104-SD is currently being evaluated under the assessment monitoring program, as detailed in the AMP.

Appendix F presents a copy of the laboratory analytical report and field information forms for the Fourth Quarter 2017 event.

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 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 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. In a January 11, 2018 letter, MDNR concurred with the ASD approach. The items addressed in the ASD are consistent with confirmed exceedances noted in the Fourth Quarter 2017 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 30, 2017 Annual Assessment Monitoring Report with the next annual report scheduled to be submitted by August 31, 2018. 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.

A Groundwater Evaluation Report was submitted to MDNR on December 26, 2017 by Feezor Engineering, Inc. The Groundwater Evaluation Report presented and evaluated the results of groundwater monitoring performed at monitoring wells that are located near the landfill's North and South Quarry but are not currently sampled as a part of the facility's detection or assessment monitoring programs. The report also presented recommendations regarding the facility's groundwater monitoring well network and its detection and assessment monitoring programs based on the results observed at these "non-program" wells. The December 26, 2017 Groundwater Evaluation Report is currently under review by the MDNR.

TABLES

TABLE 1 Detection Monitoring Wells – Fourth Quarter 2017 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-111-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 2017
Bridgeton Landfill, LLC
Bridgeton Landfill

Zone	Well	Constituent	Units	Result	Prediction Limit	Repeat from Third Quarter 2017?	Trend?
Alluvial	PZ-114-AS	Barium, Total	mg/L	1.1300	1.100	Yes	No
		Phosphorus, Total	mg/L	2.1	2.0	No	N/A
St. Louis Formation	PZ-105-SS	Calcium, Total	mg/L	100	86	Yes	Increasing
		Chloride	mg/L	75.5	25	Yes	Increasing
		Magnesium, Total	mg/L	53.4	47	Yes	Increasing
		Total Dissolved Solids	mg/L	589	540	Yes	Increasing
	PZ-106-SS	Barium, Total	mg/L	0.195	0.170	Yes	Increasing
		Calcium, Total	mg/L	117	110	No	N/A
		Chloride	mg/L	52.5	17	Yes	Increasing
		Hardness, Total	mg/L	515	500	No	N/A
		Iron, Total	mg/L	2.82	1.40	Yes	Increasing
		Sodium, Total	mg/L	36.2	17.0	Yes	Increasing
		Specific Conductance, Field	umhos/cm	1,071	950	Yes	Increasing
		Total Dissolved Solids	mg/L	757	530	Yes	Increasing
	PZ-115-SS	Manganese, Total	mg/L	0.0746	0.019	Yes	Increasing
	PZ-201A-SS	Chloride	mg/L	4.1	4.0	No	N/A
		Nitrate/Nitrite	mg/L	0.38	0.33	Yes	Increasing
	PZ-205-SS	Calcium, Total	mg/L	104	100	No	Increasing
Salem Formation	PZ-104-SD	Barium, Total	mg/L	0.563	0.230	Yes	Increasing
		Chloride	mg/L	211	110	Yes	Increasing
		Sodium, Total	mg/L	134	34	Yes	Increasing
		Specific Condutance, Field	umhos/cm	2,010	1,500	Yes	Increasing
		Total Dissolved Solids	mg/L	846	780	Yes	Increasing
		Total Organic Carbon	mg/L	42.9	32	Yes	Increasing
	PZ-106-SD	Ammonia	mg/L	22.2	1.4	Yes	Increasing
		Barium, Total	mg/L	0.288	0.10	Yes	Increasing
		Specific Conductance, Field	umhos/cm	1,493	1,200	Yes	No

Note: Only confirmed prediction limit exceedances were tested for trends.
N/A: Denotes constituent will be evaulated for trends in the event the exceedance is confirmed.

Table 3
Organic Constituent Detections at PZ-114-AS - Fourth Quarter 2017
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
2/17/2017	<5.0	34.9	5.6
5/15/2017	5.0	40.9	<5.0
8/29/2017	23	92.7	5.6
11/13/2017	19.8	107	5.7

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.

Methylene chloride detected during November 2017 event, but flagged by laboratory as also detected in associated method blank, therefore not a confirmed detection.

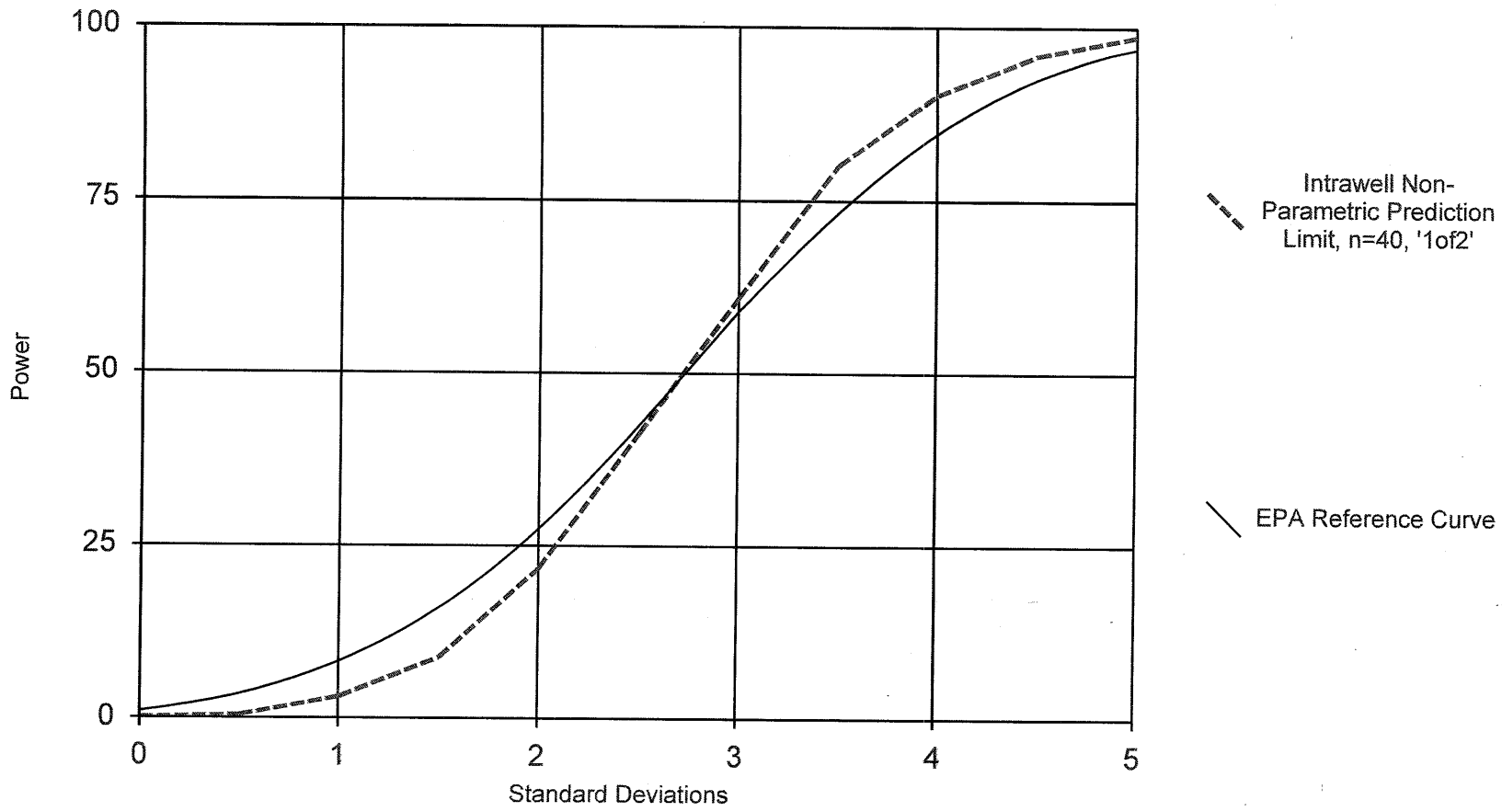
Table 4
Organic Constituent Detections at PZ-104-SS & PZ-104-SD - Fourth Quarter 2017
Bridgeton Landfill, LLC
Bridgeton Landfill

Well	Date	124-Trimethylbenzene	12-Dichloroethane	14-Dichlorobenzene	1-Chlorobutane	2-Hexanone	Acetone	Aroclor 1221 (PCB-1221)	Benzene	Chloroethane	Ethyl benzene	Isopropylbenzene	m+p-Cresols	Methyl ethyl ketone (2-Butanone)	Methyl-iso-butyl ketone	Methyl-tert-butyl ether	p-Isopropyl toluene	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
	2/9/2017	n/a	<5	5.7	n/a	<10	<10	n/a	433	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	7.5	24.6
	5/8/2017	<5	<5	<5	<5	<10	<10	<0.2	400	<10	<5	<5	<10	<10	<10	<5	<5	1150	34.3	20.4
	8/30/2017	n/a	<5	<5	n/a	<10	<10	n/a	327	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	9.5	21.3
	11/13/2017	<5	<5	<5	<5	<10	<10	<0.2	320	<10	<5	<5	<10	<10	<10	<5	<5	956	<5	16.2
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
	2/9/2017	n/a	<5	6.3	n/a	<10	<10	n/a	302	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	31.7	12.7
	5/8/2017	<5	<5	<5	<5	<10	<10	<0.2	213	<10	<5	<5	<10	<10	<10	7.9	<5	<100	25.4	7.4
	8/30/2017	n/a	<5	5.4	n/a	<10	<10	n/a	33.9	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	18.3	5.3
	11/13/2017	<5	<5	<5	<5	<10	<10	<0.2	14.7	<10	<5	<5	<10	<10	<10	7.9	<5	<100	<5	<5

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.

APPENDIX A
STATISTICAL POWER CURVES
&
DUPLICATE ANALYSIS COMPARISON

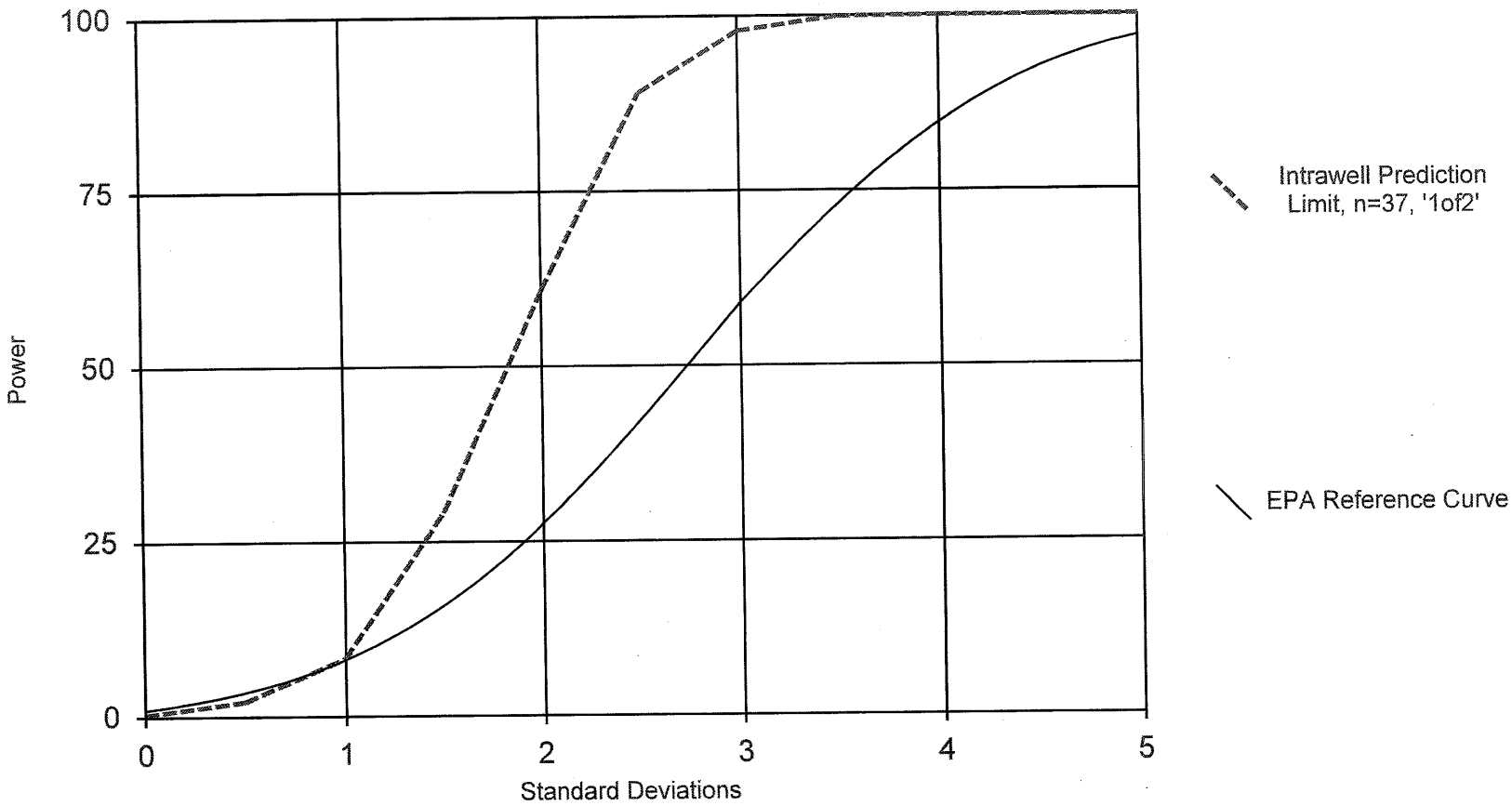
Power Curve



Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve



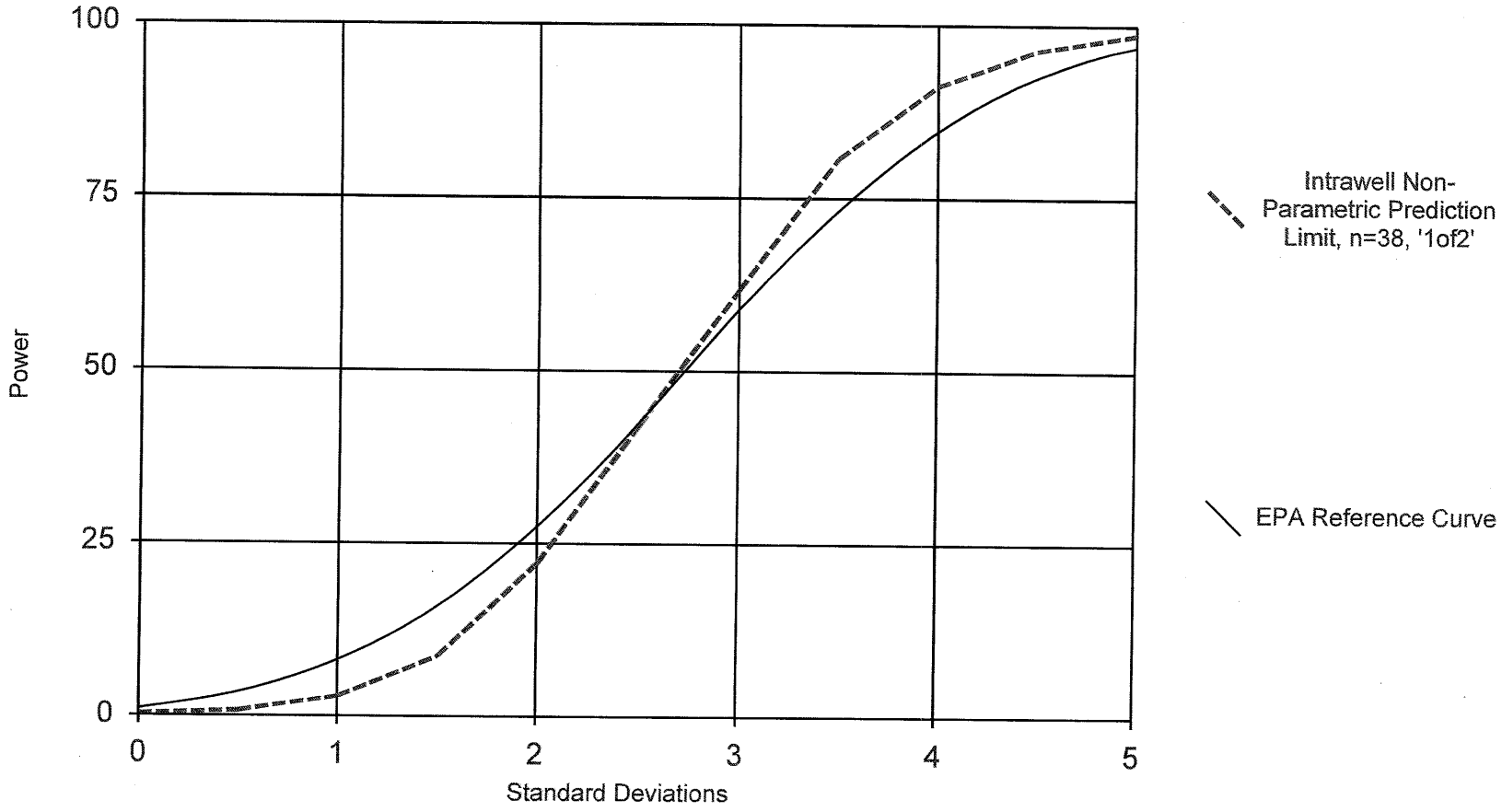
Kappa = 2.092, based on 1 compliance well and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

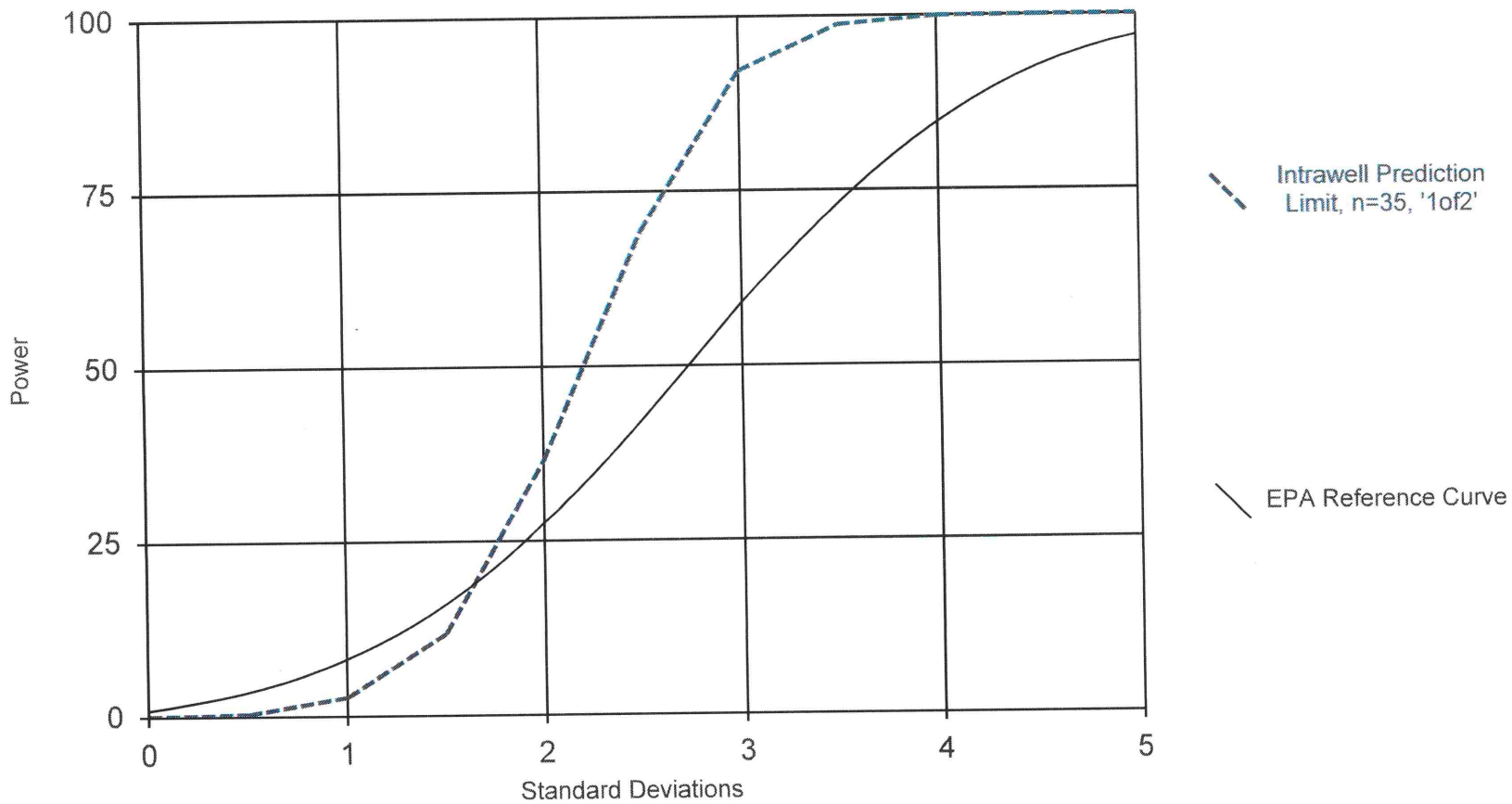
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

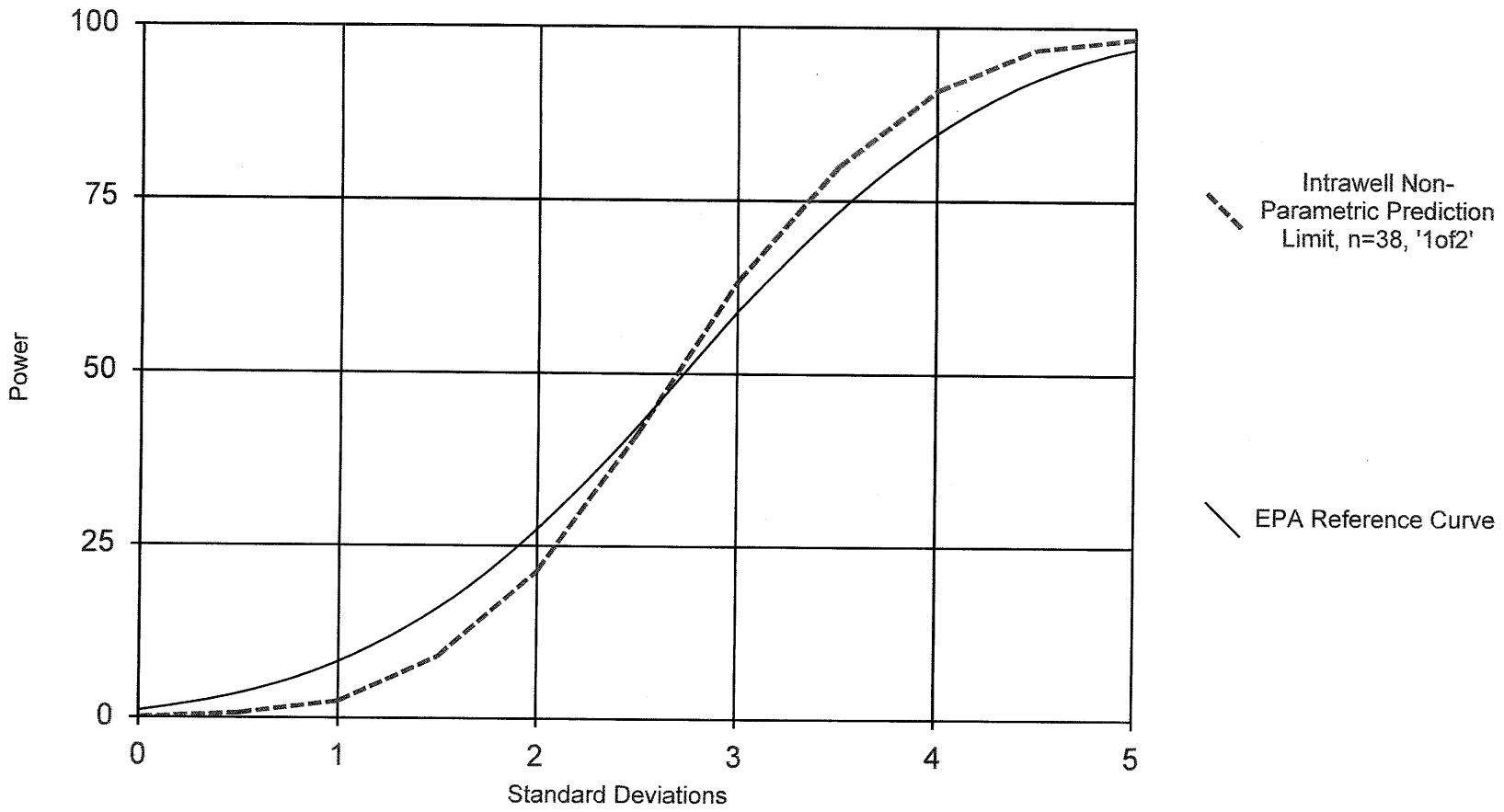


Kappa = 2.466, based on 4 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

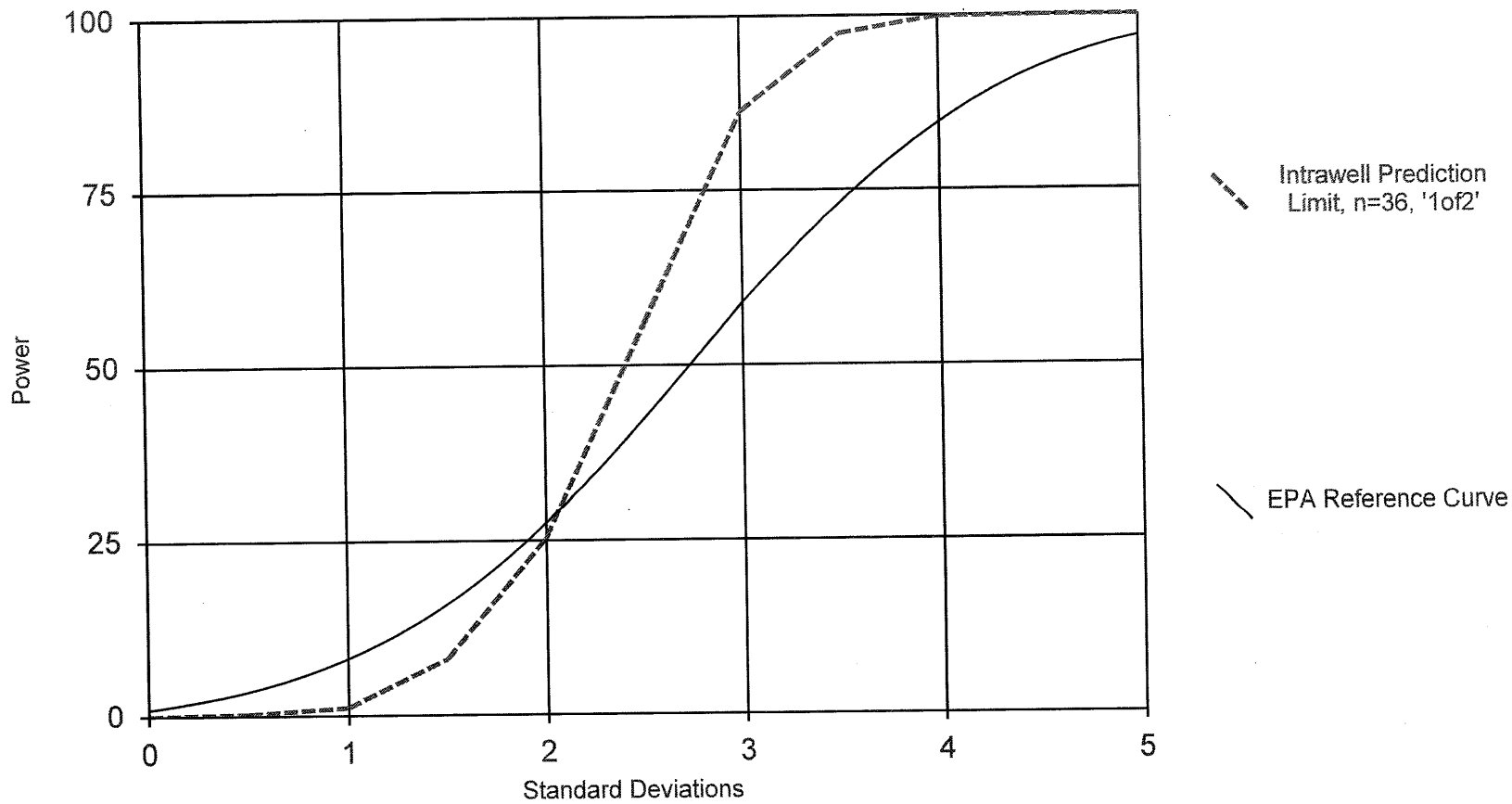
Power Curve



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

Original Sample / Duplicate Sample Analysis Comparison

Facility: Bridgeton Landfill

Monitoring Event: November-17

If both results are each greater than or equal to 5 times the Detection Limit, then
Control Limit = ± 20% Relative Percent Difference (RPD)
Where RPD = 100 * (Positive Difference in Concenrations) / (Average of Concentrations)
If either result is less than 5 times the Detection Limit, then
Control Limit = ± Detection Limit

Original / Duplicate Pair: PZ-106-SD / Duplicate

Detected Analyte	Units	Detection Limit	PZ-106-SD	Duplicate	Are both values greater than 5x Detection Limit? Y/N	If Yes, RPD (%)	If No, are both values within ± Detection Limit difference? Y/N
BARIUM, TOTAL	UG/L	10	288	287	Y	0%	N/A
BORON, TOTAL	UG/L	100	407	403	N	N/A	Y
CALCIUM, TOTAL	UG/L	500	108000	108000	Y	0%	N/A
CHEMICAL OXYGEN DEMAND, TOTAL	MG/L	10	42.2	39.3	N	N/A	Y
CHLORIDE	MG/L	25	143	144	Y	1%	N/A
FLUORIDE	MG/L	0.1	1.2	1.2	Y	0%	N/A
IRON, TOTAL	UG/L	50	754	742	Y	2%	N/A
MAGNESIUM, TOTAL	UG/L	500	60600	61100	Y	1%	N/A
MANGANESE, TOTAL	UG/L	5	18.9	18.8	N	N/A	Y
NITROGEN, AMMONIA, TOTAL	MG/L	1	22.2	22.2	Y	0%	N/A
SODIUM, TOTAL	UG/L	1000	80200	80300	Y	0%	N/A
SULFATE	MG/L	2.5	55.9	55.8	Y	0%	N/A
TOTAL DISSOLVED SOLIDS	MG/L	10	564	741	Y	**27%**	N/A
TOTAL HARDNESS BY 2340B	UG/L	1000	519000	521000	Y	0%	N/A
TOTAL ORGANIC CARBON	MG/L	10	15.1	15.2	N	N/A	Y

APPENDIX B
POTENTIOMETRIC SURFACE MAPS

WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 11/2/17 by Feezor Engineering, Inc.
LCS measurements collected on 10/31/17 (11/2/17 for LCS-5B) by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

* Denotes D-85 not contoured in the well cluster, due to deeper installation.

LEGEND

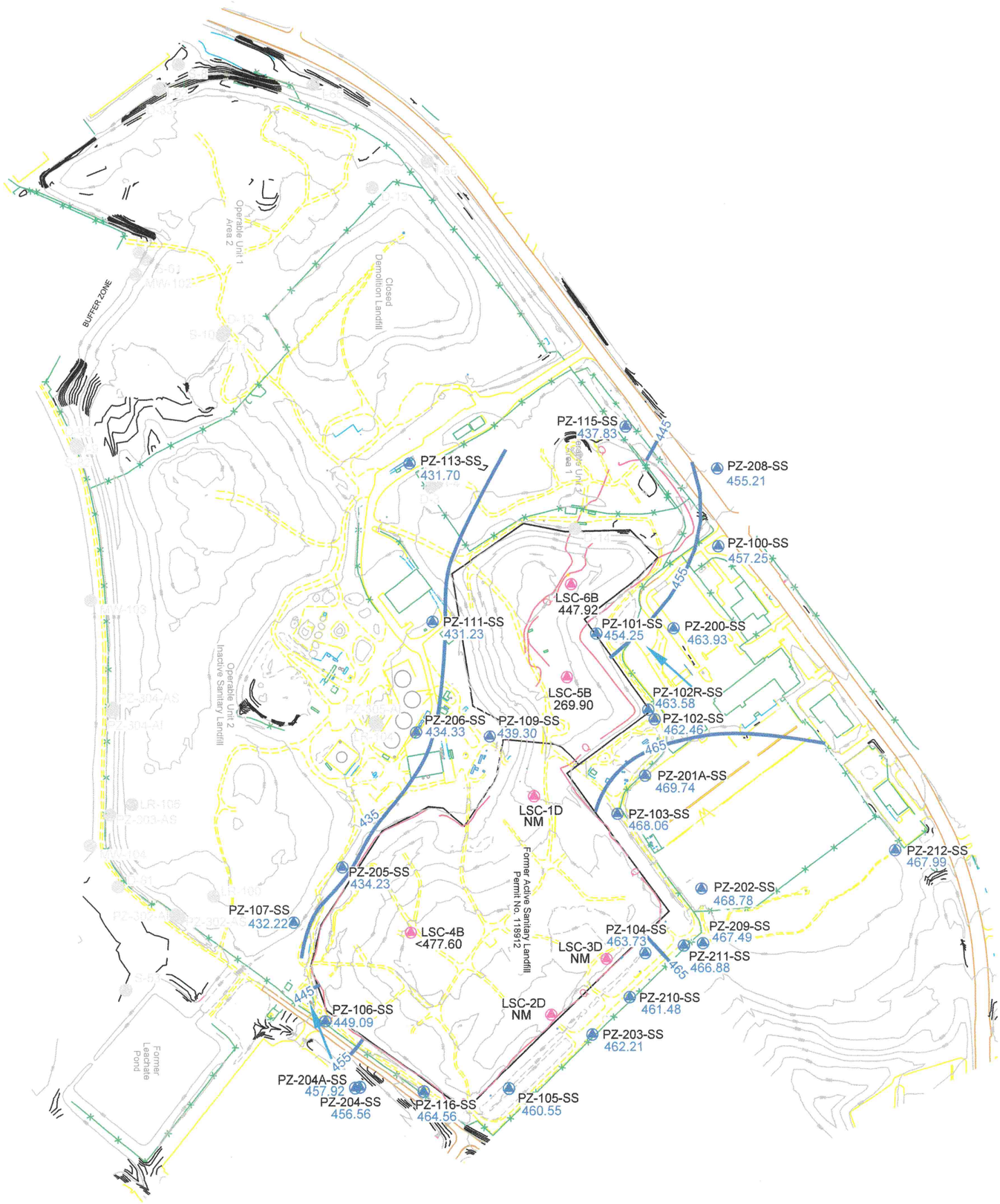
LEACHATE COLLECTION SUMP
GROUNDWATER MONITORING WELL
462.17 GROUNDWATER ELEVATION (FMSL)
432 POTENTIOMETRIC SURFACE CONTOUR (FMSL)
INFERRED GROUNDWATER FLOW DIRECTION

NORTH

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

JETT ENVIRONMENTAL CONSULTING
1002 Morgan Meadow Drive
Wentzville, MO 63385
314-496-4654
www.jettenviro.com

Fourth Quarter 2017
Alluvial Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

SS = ST. LOUIS UPPER SALEM UNIT
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Notes: Depth to water measurements collected on 11/2/17 by Feezor Engineering, Inc.
LCS measurements collected on 10/31/17 (11/2/17 for LCS-5B) by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

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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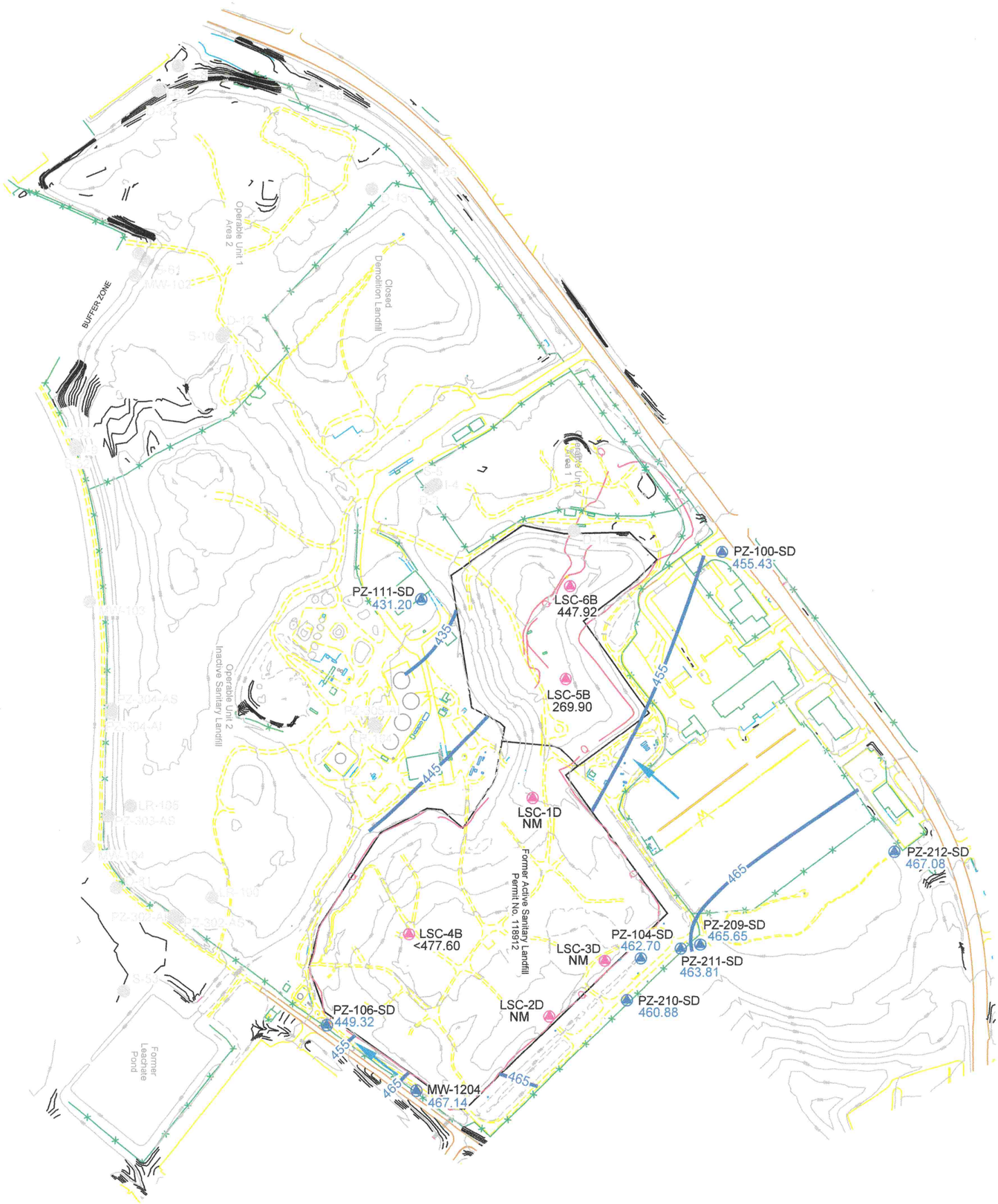
Fourth Quarter 2017
St. Louis/Upper Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 11/2/17 by Feezor Engineering, Inc.
LCS measurements collected on 10/31/17 (11/2/17 for LCS-5B) by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

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

JETT ENVIRONMENTAL CONSULTING
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Wentzville, MO 63385
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Fourth Quarter 2017
Deep Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 11/2/17 by Feezor Engineering, Inc.
LCS measurements collected on 10/31/17 (11/2/17 for LCS-5B) by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

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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1002 Morgan Meadow Drive
Wentzville, MO 63385
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www.jettenviro.com

Fourth Quarter 2017
Keokuk Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

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 May 2017 (ft)	Notes
D-85	11/2/2017	0913	26.44	24.82	N/A	76.41	
D-87		0900	33.88	32.24	N/A	115.17	
I-67		1241	11.28	9.65	N/A	40.44	
I-68		1239	19.62	18.14	N/A	40.46	
I-73		1231	31.01	29.50	N/A	50.57	
LR-103		1234	39.64	38.15	N/A	49.82	
MW-1204		1039	10.90	10.67	N/A	215.21	TD is from Feb 2017
PZ-100-SS		0927	29.30	29.43	N/A	89.33 (Top of Pump)	
PZ-100-SD		0926	31.06	30.51	N/A	96.21 (Top of Pump)	
PZ-100-KS		0925	23.89	23.52	N/A	383.68	TD is from Nov 2016
PZ-101-SS		0955	38.83	38.19	N/A	157.11	
PZ-102-SS		1001	22.19	21.55	N/A	91.27	
PZ-102R-SS		1000	24.98	24.49	N/A	94.02	
PZ-103-SS		1004	16.15	15.34	N/A	149.65	
PZ-104-SS		1026	20.27	20.19	N/A	140.29 (Top of Pump)	
PZ-104-SD		1024	21.45	21.30	N/A	120.62 (Top of Pump)	
PZ-104-KS		1023	17.83	17.19	N/A	93.29 (Top of Pump)	
PZ-105-SS		1035	23.49	23.39	N/A	144.82 (Top of Pump)	
PZ-106-SS		1044	14.02	14.15	N/A	161.39 (Top of Pump)	
PZ-106-SD		1043	14.52	14.51	N/A	196.45 (Top of Pump)	
PZ-106-KS		1042	3.00	2.59	N/A	375.00	TD is from Nov 2016
PZ-107-SS		1047	33.19	31.72	N/A	103.67	
PZ-109-SS		1220	20.89	19.82	N/A	130.98 (Top of Pump)	
PZ-111-SS		1214	33.40	31.98	N/A	115.30	Top of pump = 111.43 TD is from Aug 2017 - No pump installed
PZ-111-SD		1212	35.27	33.49	N/A	197.08 (Top of Pump)	
PZ-111-KS		1213	7.33	6.98	N/A	374.61	TD is from Nov 2016
PZ-112-AS		0944	31.57	29.95	N/A	38.45	
PZ-113-AD		0904	30.84	29.19	N/A	109.95	
PZ-113-AS	11/2/2017	0905	30.10	29.13	N/A	39.22	

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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 May 2017 (ft)	Notes
PZ-113-SS	11/2/2017	0903	30.96	29.35	N/A	160.28	
PZ-114-AS		0919	20.15	18.53	N/A	26.04 (Top of Pump)	
PZ-115-SS		0920	15.07	14.26	N/A	81.03 (Top of Pump)	
PZ-116-SS		1038	13.65	13.06	N/A	142.87 (Top of Pump)	
PZ-200-SS		0930	22.30	21.70	N/A	99.35	Labeled as GMP-7
PZ-201A-SS		0934	12.59	11.68	N/A	86.28 (Top of Pump)	
PZ-202-SS		1010	13.04	12.40	N/A	85.19 (Top of Pump)	
PZ-203-SS		1032	24.98	24.85	N/A	111.29	
PZ-204-SS		1053	8.72	8.65	N/A	87.98	
PZ-204A-SS		1051	5.17	4.98	N/A	84.74	
PZ-205-AS		1227	32.60	31.32	N/A	53.85	
PZ-205-SS		1228	30.95	29.65	N/A	93.00 (Top of Pump)	Top of Pump is from Aug 2017
PZ-206-SS		1222	29.09	27.73	N/A	129.85	
PZ-207-AS		0908	31.58	29.98	N/A	38.94	
PZ-208-SS		0939	19.98	19.69	N/A	100.35	
PZ-209-SS		1007	22.19	22.09	N/A	99.89 (Top of Pump)	
PZ-209-SD		1006	23.93	23.71	N/A	101.40 (Top of Pump)	
PZ-210-SS		1029	25.42	25.95	N/A	101.46 (Top of Pump)	
PZ-210-SD		1030	26.12	25.29	N/A	101.60 (Top of Pump)	
PZ-211-SS		1019	20.53	20.41	N/A	98.12 (Top of Pump)	
PZ-211-SD		1019	~~26.~~ 23.65	22.39	N/A	99.02 (Top of Pump)	WL: 23.65
PZ-212-SS		1015	14.80	13.65	N/A	93.89 (Top of Pump)	
PZ-212-SD		1016	15.64	14.98	N/A	92.76 (Top of Pump)	
S-84	11/2/2017	0912	26.16	24.55	N/A	32.71	

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Groundwater Elevation Summary Table
Bridgeton Landfill, LLC

Well	Top of PVC Casing Elevation[1] (fmsl)	Depth to Water[2] (ft)	Groundwater Elevation (fmsl)
Alluvial Zone			
D-85	457.67	26.44	431.23
D-87*	464.41	33.88	430.53
I-67*	441.78	11.28	430.50
I-68	450.60	19.62	430.98
I-73	461.96	31.01	430.95
LR-103	470.64	39.64	431.00
PZ-112-AS	462.53	31.57	430.96
PZ-113-AD	462.24	30.84	431.40
PZ-113-AS	462.19	30.10	432.09
PZ-114-AS	452.14	20.15	431.99
PZ-205-AS	464.77	32.60	432.17
PZ-207-AS	462.65	31.58	431.07
S-84	457.45	26.16	431.29
St. Louis / Upper Salem Zone			
PZ-100-SS	486.55	29.30	457.25
PZ-101-SS	493.08	38.83	454.25
PZ-102R-SS	488.56	24.98	463.58
PZ-102-SS	484.65	22.19	462.46
PZ-103-SS	484.21	16.15	468.06
PZ-104-SS	484.00	20.27	463.73
PZ-105-SS	484.04	23.49	460.55
PZ-106-SS	463.11	14.02	449.09
PZ-107-SS	465.41	33.19	432.22
PZ-109-SS	460.19	20.89	439.30
PZ-111-SS	464.63	33.40	431.23
PZ-113-SS	462.66	30.96	431.70
PZ-115-SS	452.90	15.07	437.83
PZ-116-SS	478.21	13.65	464.56
PZ-200-SS	486.23	22.30	463.93
PZ-201A-SS	482.33	12.59	469.74
PZ-202-SS	481.82	13.04	468.78
PZ-203-SS	487.19	24.98	462.21
PZ-204A-SS	463.09	5.17	457.92
PZ-204-SS	465.28	8.72	456.56
PZ-205-SS	465.18	30.95	434.23
PZ-206-SS	463.42	29.09	434.33
PZ-208-SS	475.19	19.98	455.21
PZ-209-SS	489.68	22.19	467.49
PZ-210-SS	486.90	25.42	461.48
PZ-211-SS	487.41	20.53	466.88
PZ-212-SS	482.79	14.80	467.99
Deep Salem Zone			
MW-1204	478.04	10.90	467.14
PZ-100-SD	486.49	31.06	455.43
PZ-104-SD	484.15	21.45	462.70
PZ-106-SD	463.84	14.52	449.32
PZ-111-SD	466.57	35.27	431.30
PZ-209-SD	489.58	23.93	465.65
PZ-210-SD	487.00	26.12	460.88
PZ-211-SD	487.46	23.65	463.81
PZ-212-SD	482.72	15.64	467.08
Keokuk Zone			
PZ-100-KS	486.36	23.89	462.47
PZ-104-KS	484.60	17.83	466.77
PZ-106-KS	464.73	3.00	461.73
PZ-111-KS	465.80	7.33	458.47

Notes:

1 - Top of PVC casing elevations are from surveys on 8/13, 8/21-22, 8/29, 8/31/2012; 10/21-10/22/2013; 9/15/2014; 11/12/2014; 4/7/2016; 9/18/2016; 1/30/2017; and 9/6/17.

2 - Depth to water measurements recorded by Feezor Engineering, Inc. on 11/2/2017.

** - Top of PVC casing elevations from Groundwater Monitoring Report, October 2013 Event, West Lake Landfill Operable Unit 1, dated February 21, 2014 by Engineering Management Support Inc.*

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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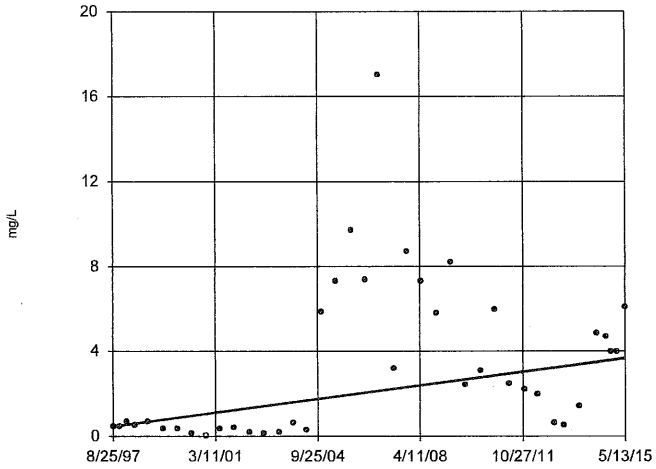
Hollow symbols indicate censored values.

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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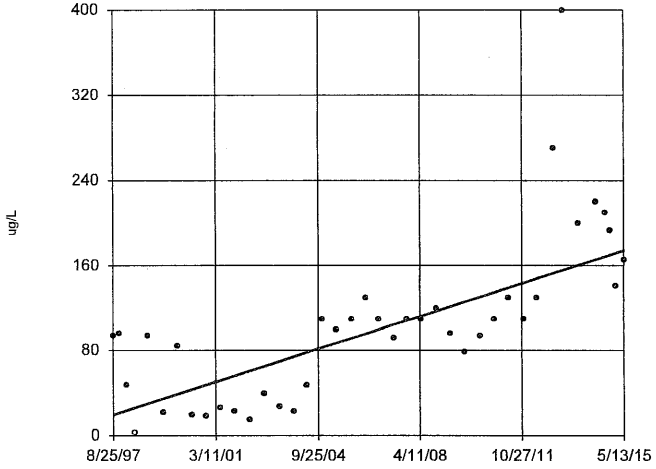
Hollow symbols indicate censored values.

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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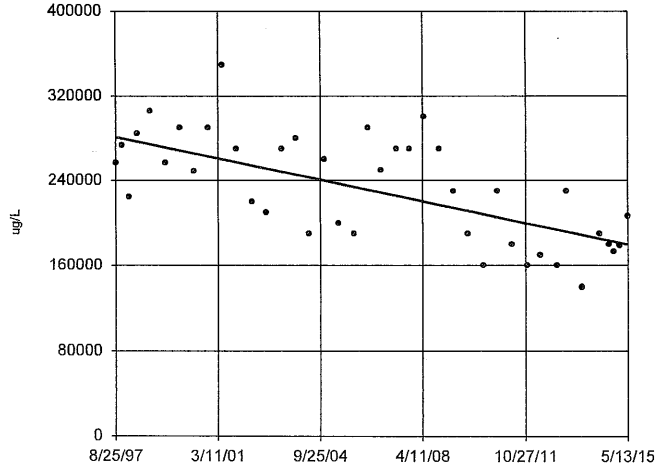
Sen's Slope Estimator

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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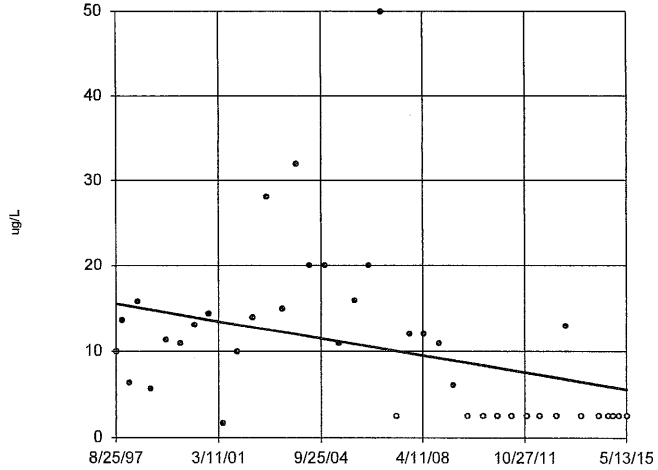
Hollow symbols indicate censored values.

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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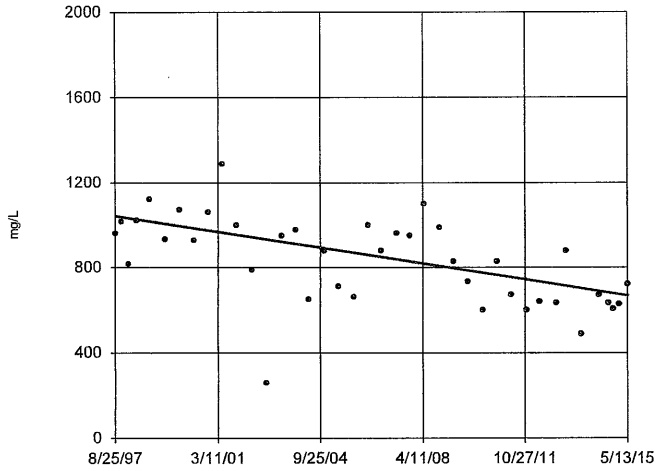
Sen's Slope Estimator

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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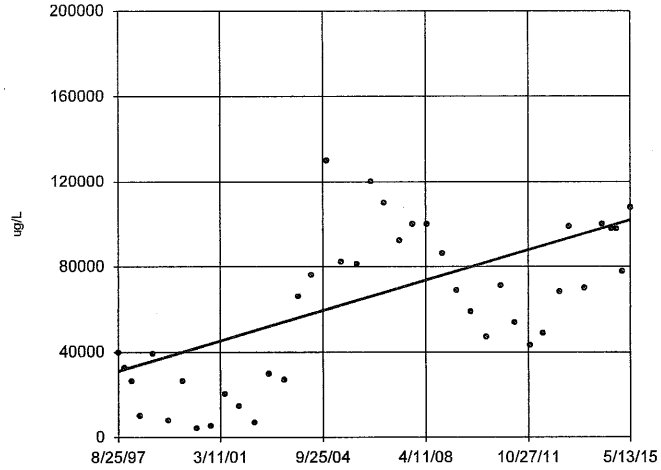
Sen's Slope Estimator

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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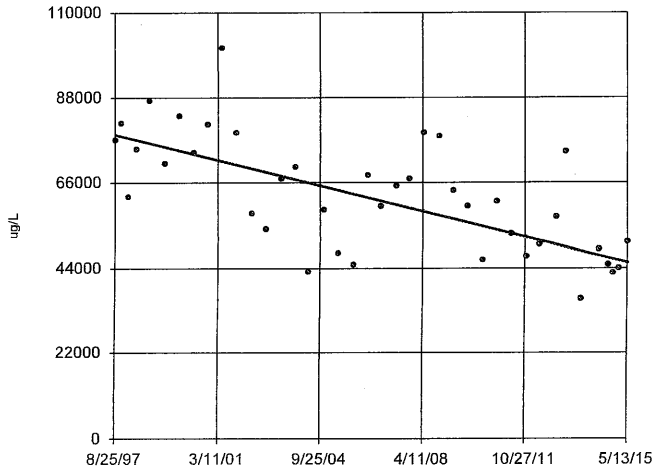
Sen's Slope Estimator

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).

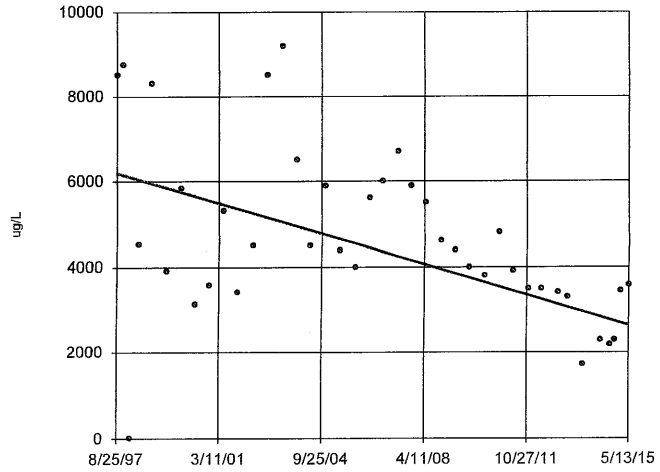
Constituent: Magnesium Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

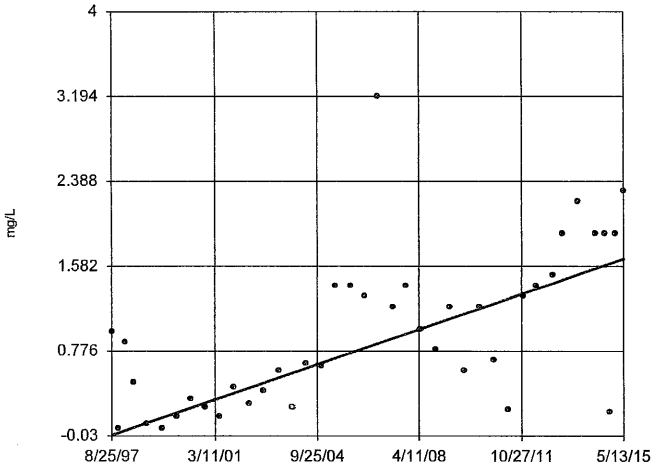
Constituent: Manganese Total Analysis Run 1/7/2016 1:01 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

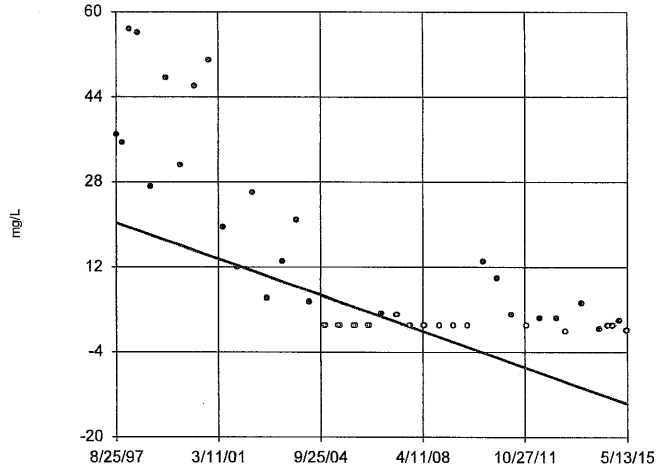
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

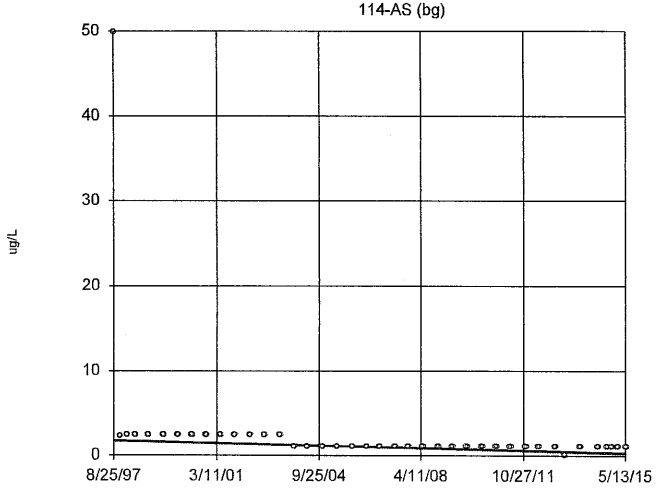
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

Sanitas™ v.9.5.20 Software licensed to Jett Environmental Consulting, UG
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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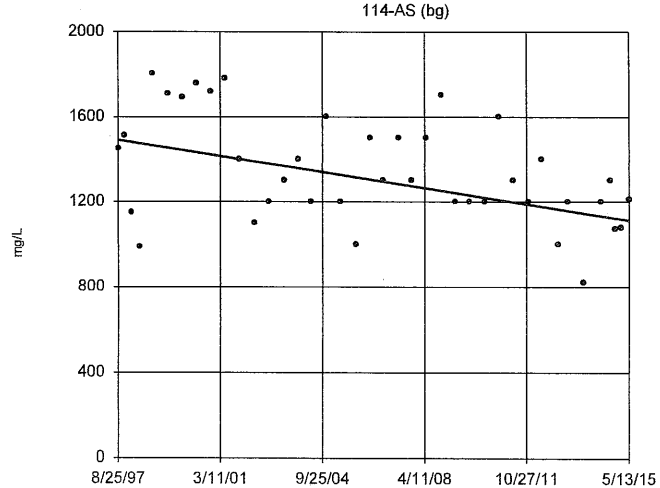
Sen's Slope Estimator

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 12/30/2017, 12:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony Total (ug/L)	114-AS	5.0	n/a	11/13/2017	2.5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	**114-AS**	**1100**	**n/a**	**11/13/2017**	**1130**	**Yes**	**40**	**6.583**	**0.2171**	**0**	**None**	**ln(x)**	**0.0007744**	**Param Intra 1 of 2**
Beryllium Total (ug/L)	114-AS	2.0	n/a	11/13/2017	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	11/13/2017	284	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	11/13/2017	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	11/13/2017	218000	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	11/13/2017	48.1	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	11/13/2017	297	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	11/13/2017	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	11/13/2017	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	11/13/2017	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	11/13/2017	0.16	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	11/13/2017	801	No	40	828.3	205.5	0	None	No	0.0007744	Param Intra 1 of 2
Lead Total (ug/L)	114-AS	25	n/a	11/13/2017	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	11/13/2017	62600	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	11/13/2017	3260	No	39	8.401	0.3974	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Mercury Total (ug/L)	114-AS	0.20	n/a	11/13/2017	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	11/13/2017	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	11/13/2017	1ND	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	11/13/2017	6.56	No	37	1.888	0.02947	0	None	ln(x)	0.0003872	Param Intra 1 of 2
Selenium Total (ug/L)	114-AS	5.0	n/a	11/13/2017	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	11/13/2017	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	11/13/2017	111000	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	11/13/2017	2310	No	39	2313	528.9	0	None	No	0.0007744	Param Intra 1 of 2
Sulfate (mg/L)	114-AS	57	n/a	11/13/2017	0.33	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	2.0	n/a	11/13/2017	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	11/13/2017	1250	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	11/13/2017	14.9	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	11/13/2017	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	11/13/2017	10ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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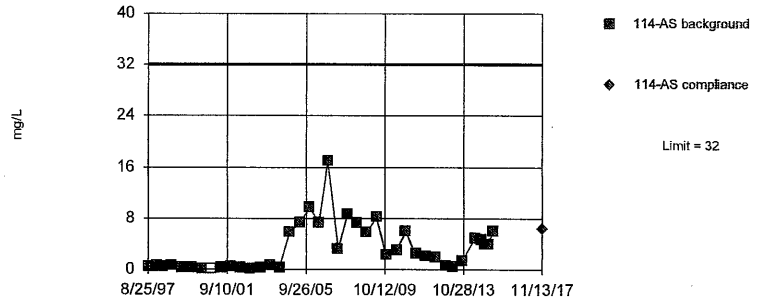
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.3567, Std. Dev.=1.493, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9353, 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: Ammonia as N Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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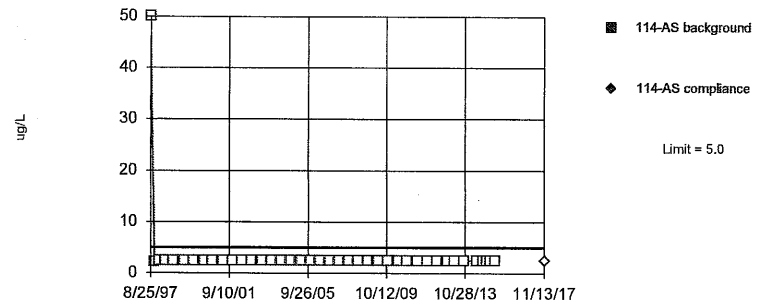
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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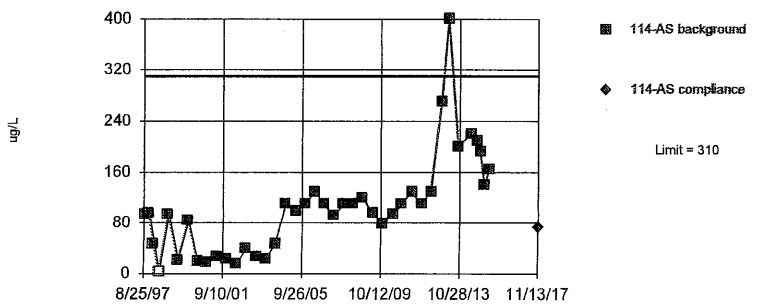
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=9.554, Std. Dev.=3.815, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9585, critical = 0.919. Kappa = 2.076 (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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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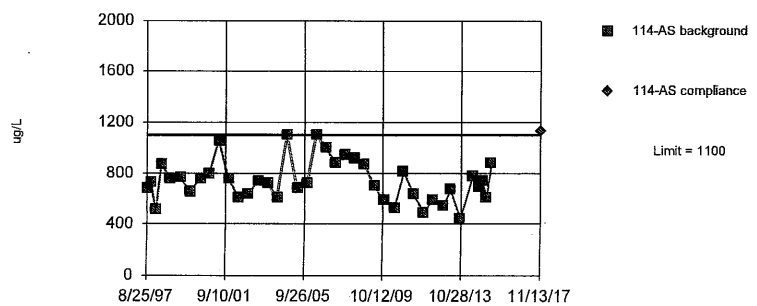
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.583, 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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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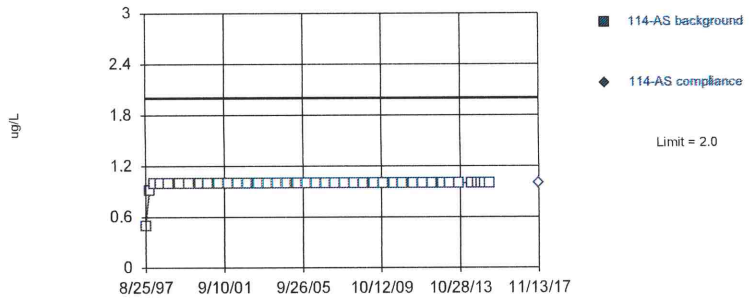
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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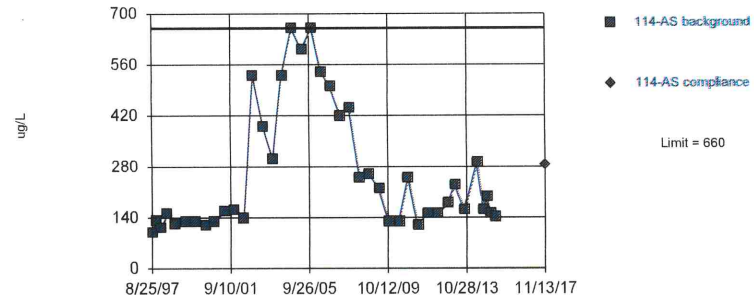
Within Limit

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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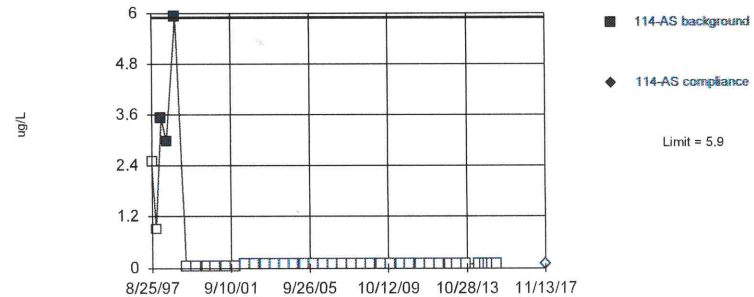
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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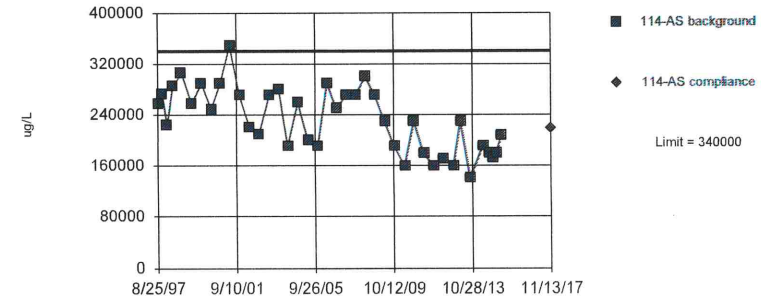
Within Limit

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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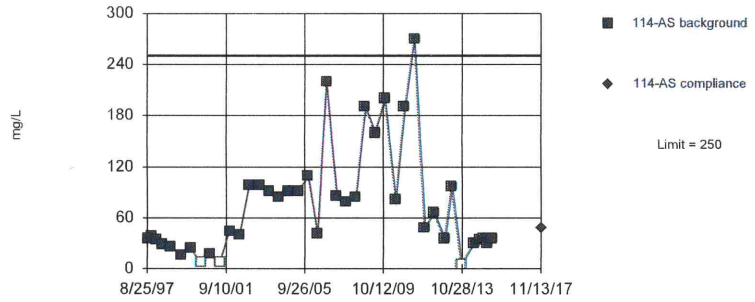
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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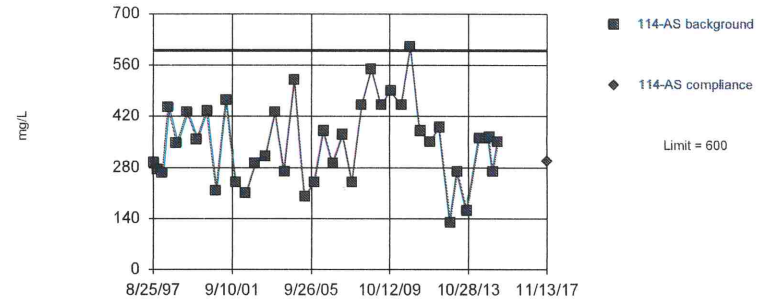
Within Limit

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 12/30/2017 12:54 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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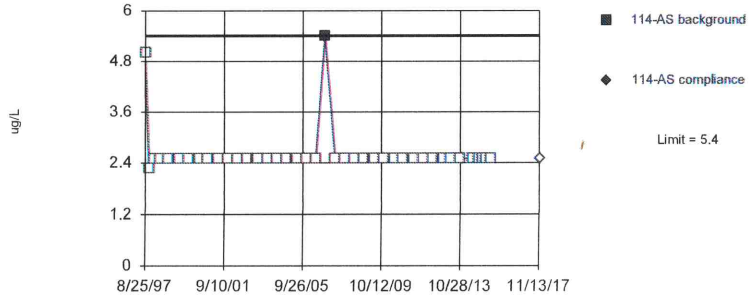
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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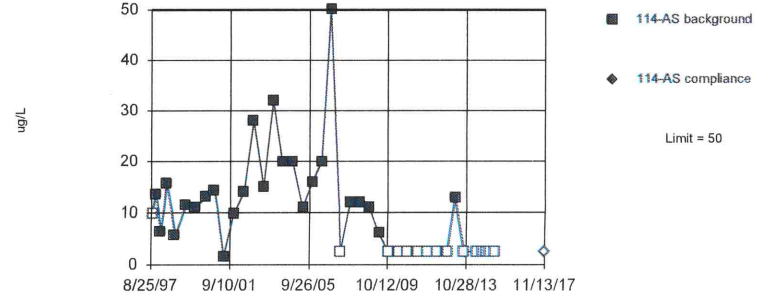
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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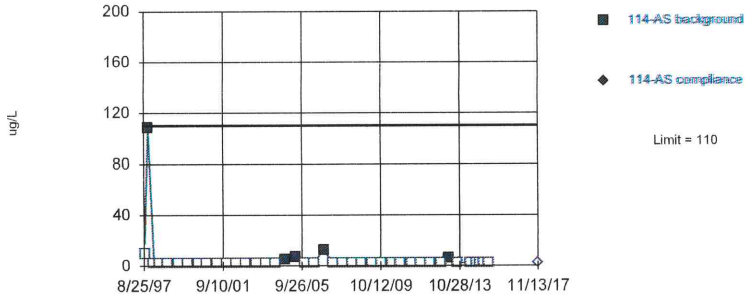
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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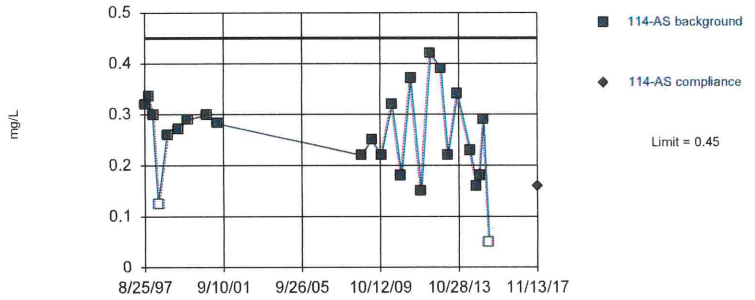
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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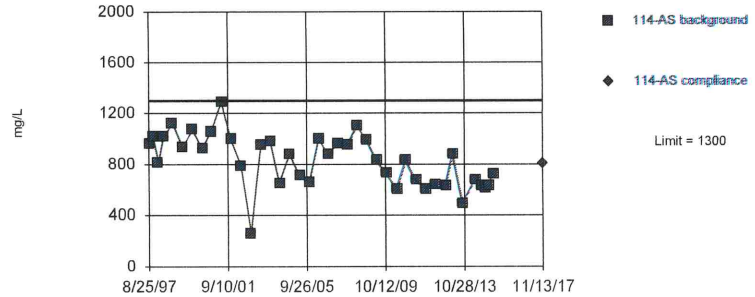
Within Limit

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.

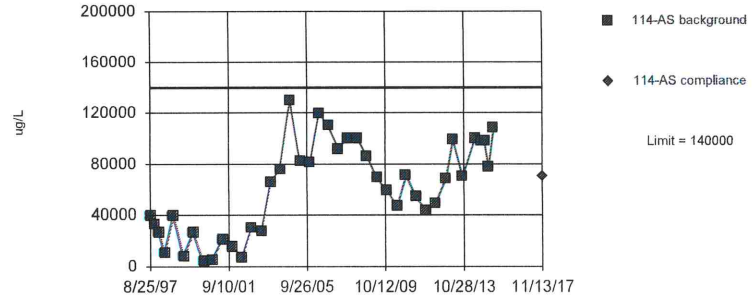
Constituent: Hardness Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=61149, Std. Dev.=35851, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9461, 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: Iron Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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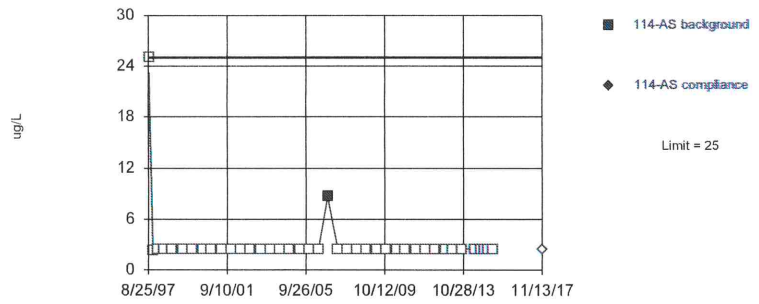
Hollow symbols indicate censored values.

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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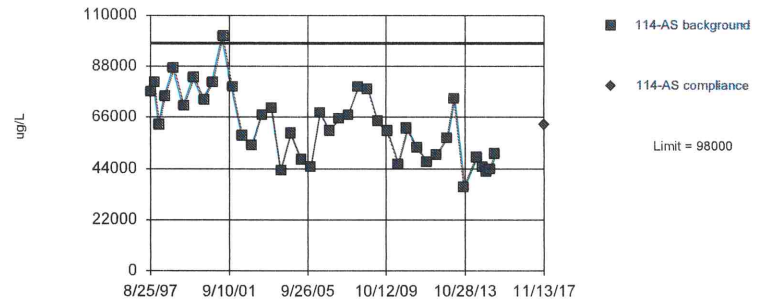
Within Limit

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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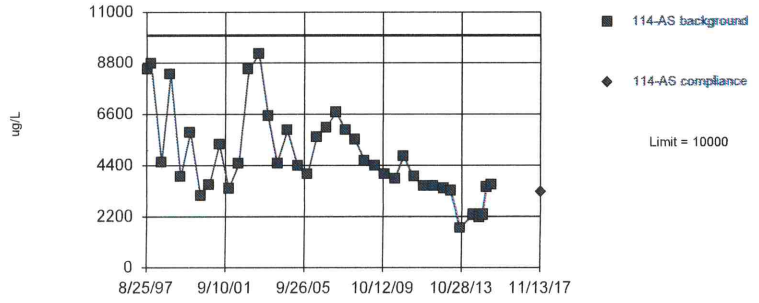
Within Limit

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).

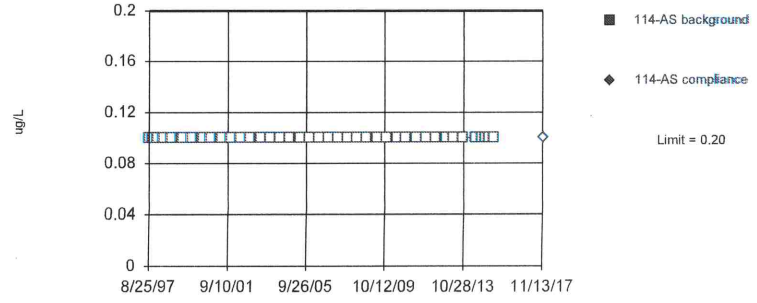
Constituent: Manganese Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

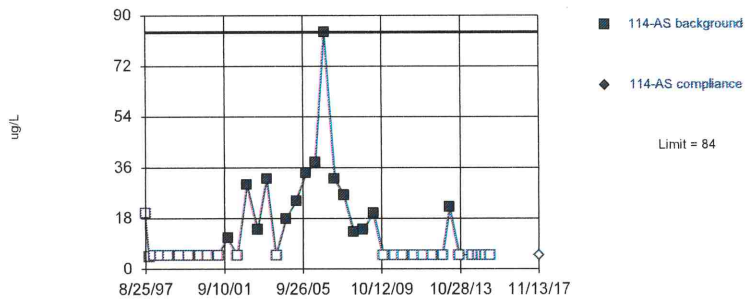
Constituent: Mercury Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

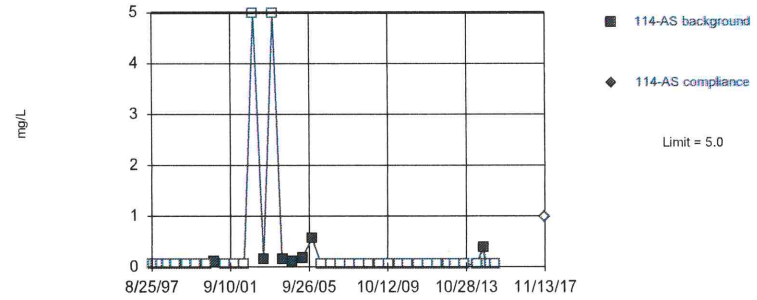
Constituent: Nickel Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Nitrate/Nitrite Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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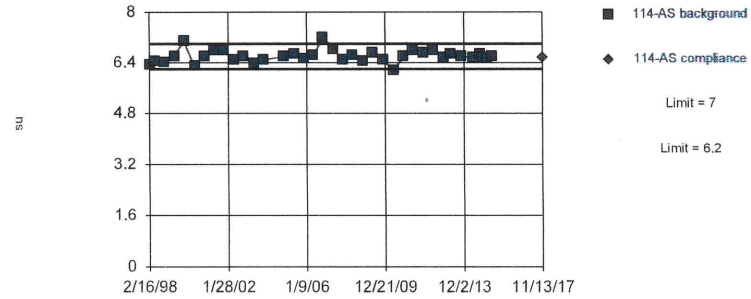
Within Limits

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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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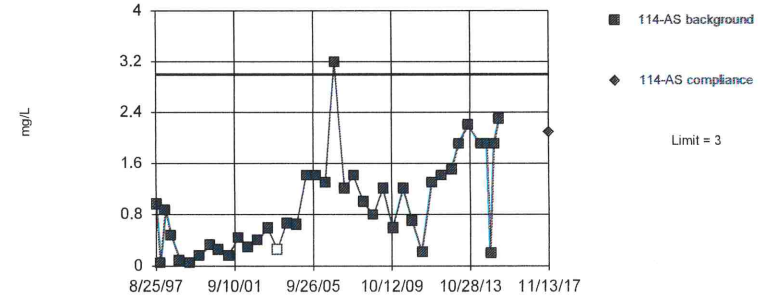
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.9028, Std. Dev.=0.3956, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, 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.

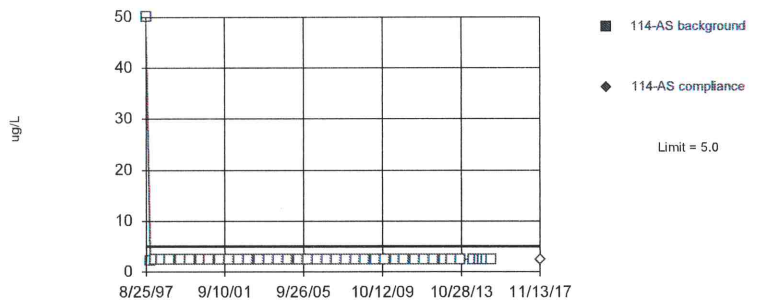
Constituent: Phosphorus Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

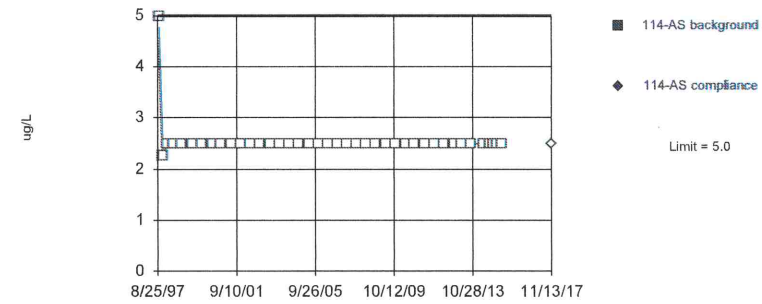
Constituent: Selenium Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

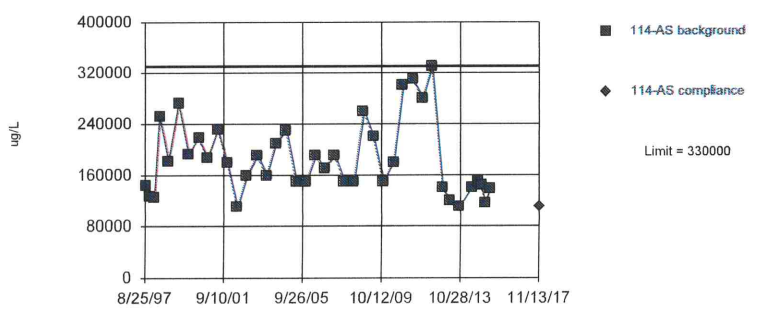
Constituent: Silver Total Analysis Run 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 12:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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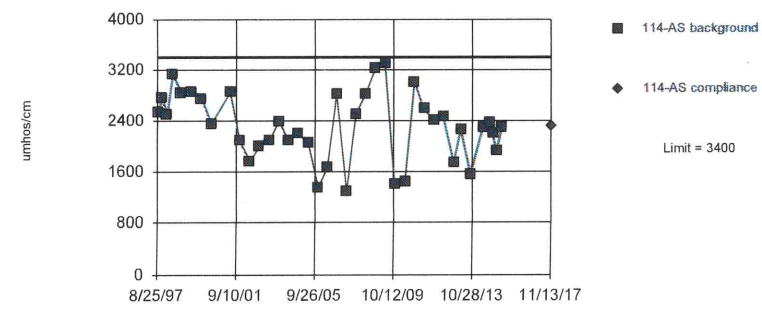
Within Limit

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 12/30/2017 12:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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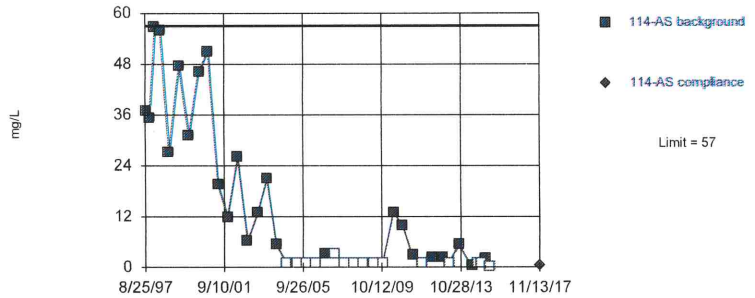
Hollow symbols indicate censored values.

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.

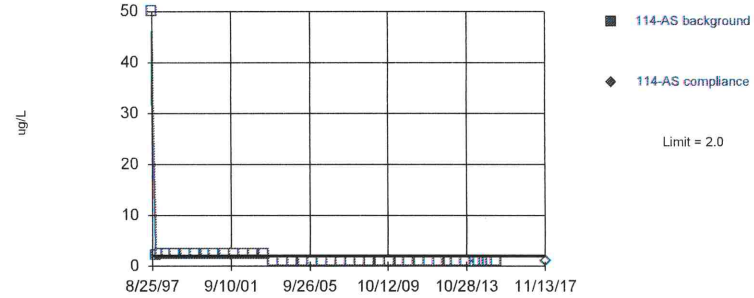
Constituent: Sulfate Analysis Run 12/30/2017 12:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 12:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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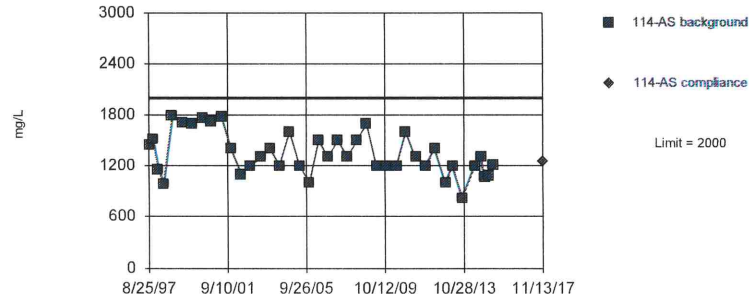
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.186, 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 12/30/2017 12:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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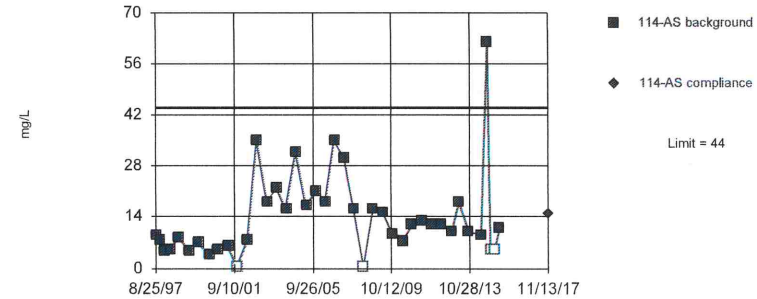
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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 12/30/2017 12:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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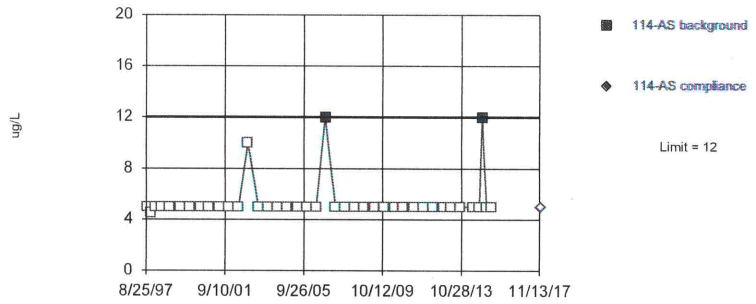
Hollow symbols indicate censored values.

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: Vanadium Total Analysis Run 12/30/2017 12:55 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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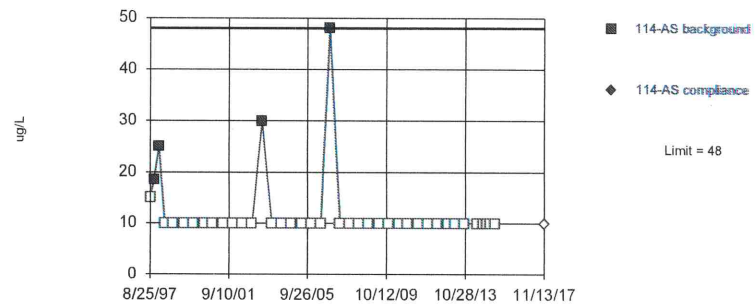
Hollow symbols indicate censored values.

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. 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: Zinc Total Analysis Run 12/30/2017 12:55 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 1:01 PM

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	11/13/2017	6.4	No	37	0.2618	1.512	2.703	None	ln(x)	0.0007744	Param Intra 1 of 2
Arsenic Total (ug/L)	114-AS	190	n/a	11/13/2017	73	No	23	7.394	2.888	4.348	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Iron Total (ug/L)	114-AS	170000	n/a	11/13/2017	70400	No	20	31.84	10.42	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Phosphorus Total (mg/L)	**114-AS**	**2**	**n/a**	**11/13/2017**	**2.1**	**Yes**	**19**	**0.7295**	**0.2274**	**5.263**	**None**	**x^(1/3)**	**0.0007744**	**Param Intra 1 of 2**

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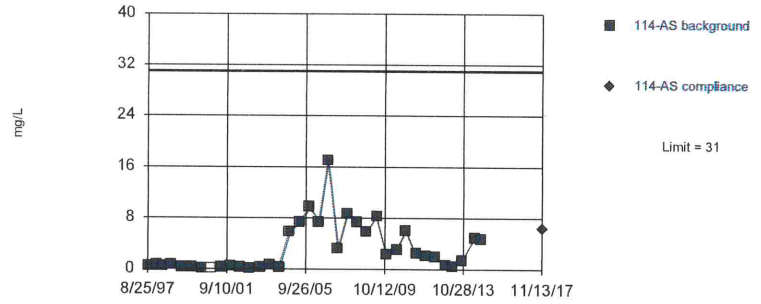
Hollow symbols indicate censored values.

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 12/30/2017 12:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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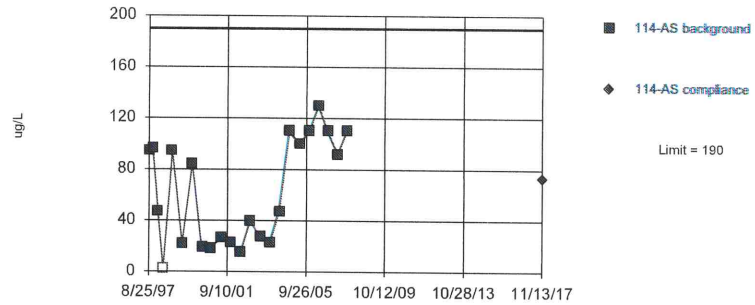
Hollow symbols indicate censored values.

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 12/30/2017 12:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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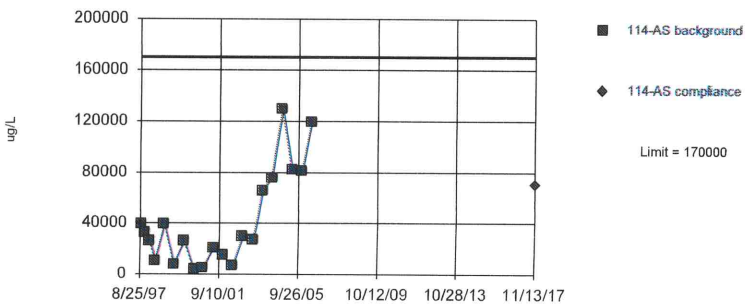
Within Limit

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 12/30/2017 1:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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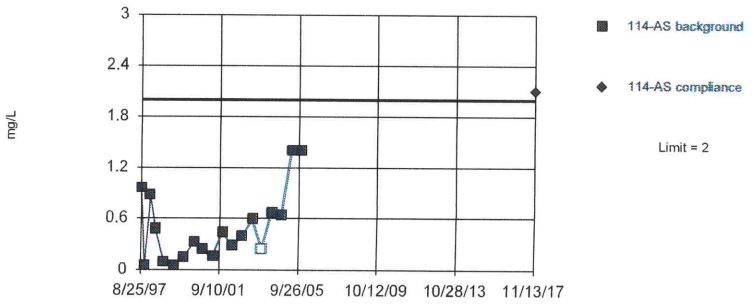
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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 12/30/2017 1:00 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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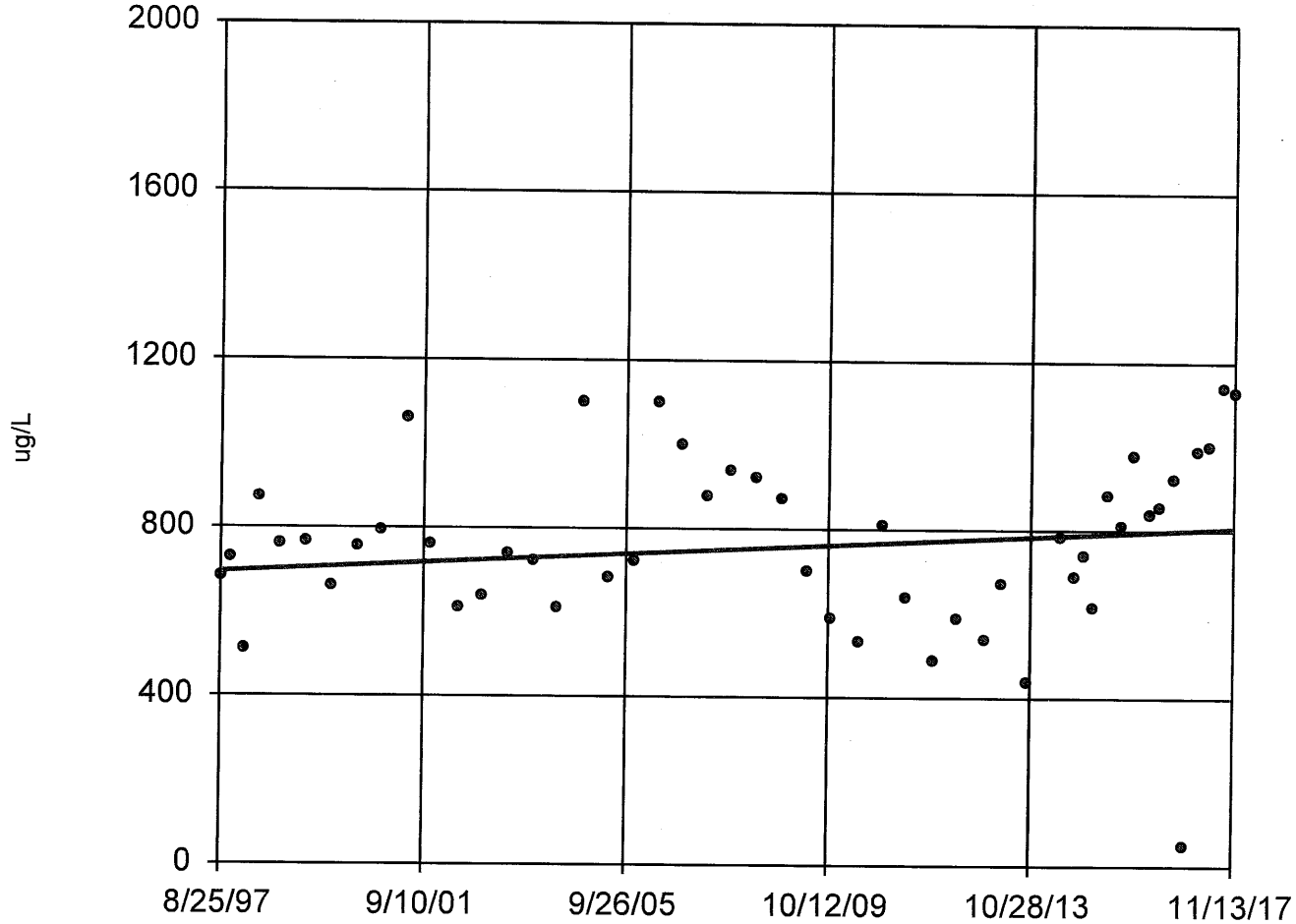
Sen's Slope Estimator

114-AS



n = 50

Slope = 5.545 units per year.

Mann-Kendall normal approx. = 1.23
critical = 2.33

Trend not significant at 98% confidence level (α = 0.01 per tail).

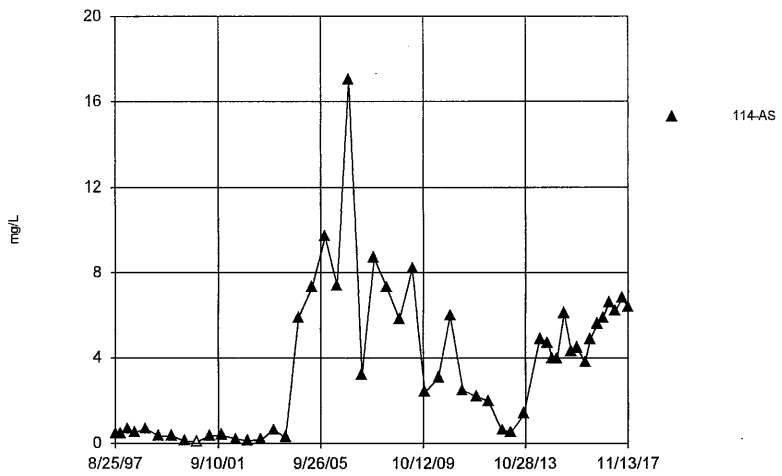
Constituent: Barium Total Analysis Run 12/30/2017 2:14 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Ammonia as N Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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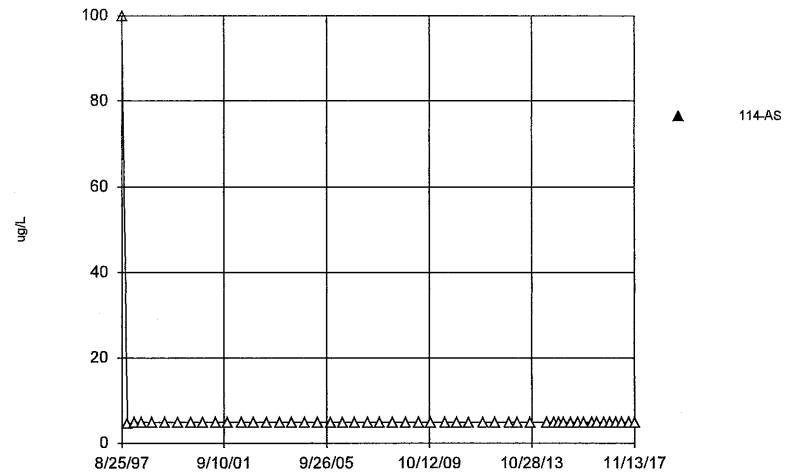
Hollow symbols indicate censored values.

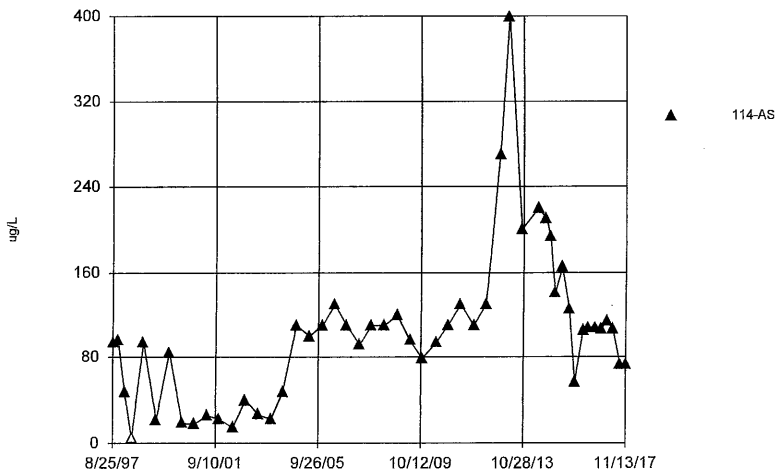
Time Series



Constituent: Antimony Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

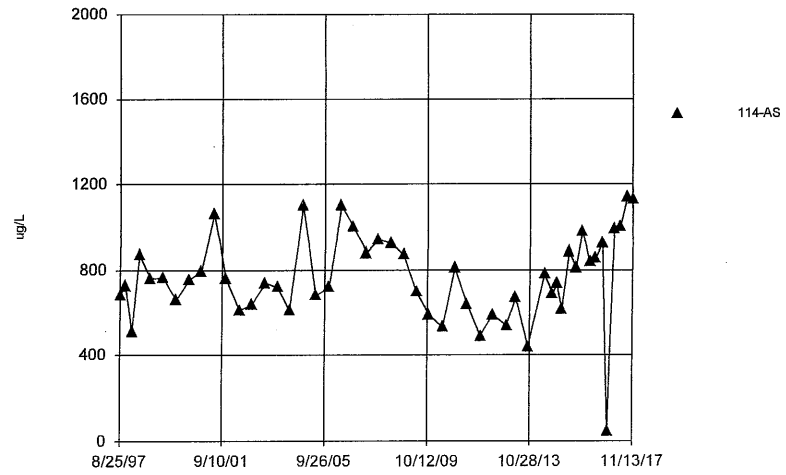
Time Series



Constituent: Arsenic Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

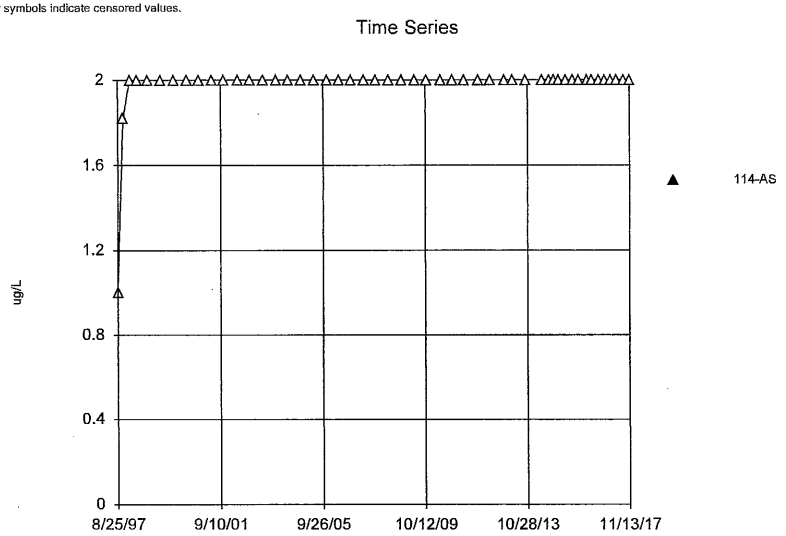
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Time Series



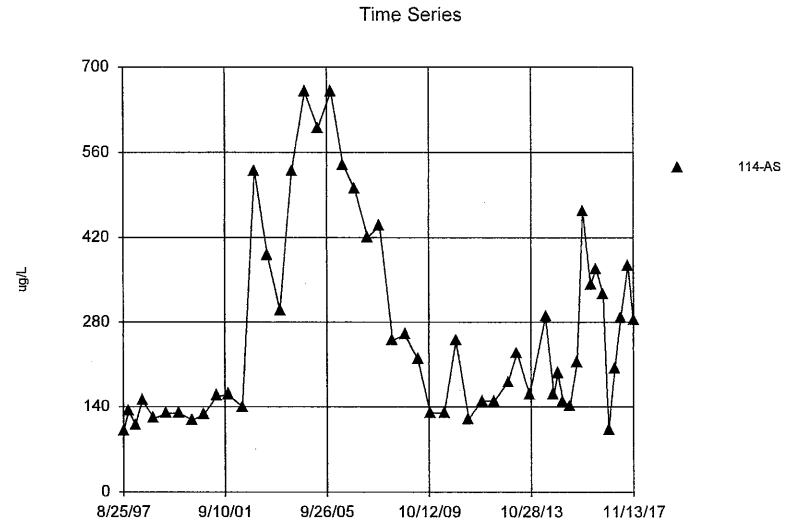
Constituent: Barium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



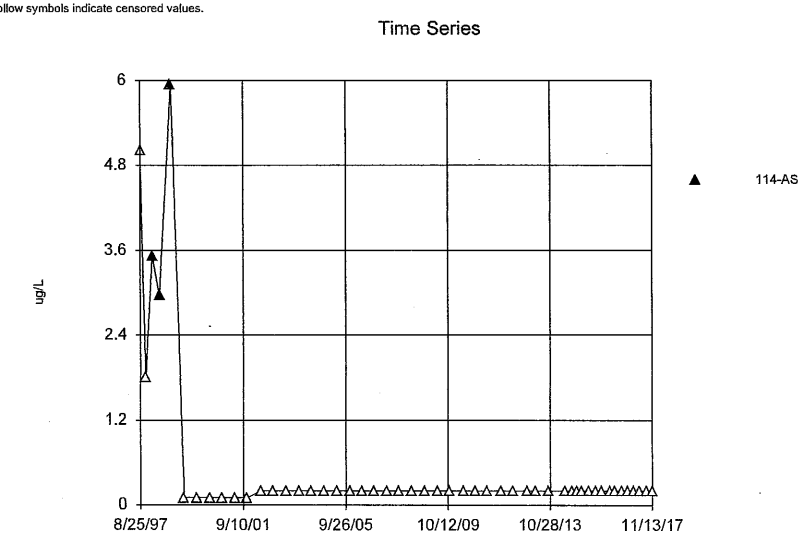
Constituent: Beryllium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG



Constituent: Boron Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.



Constituent: Cadmium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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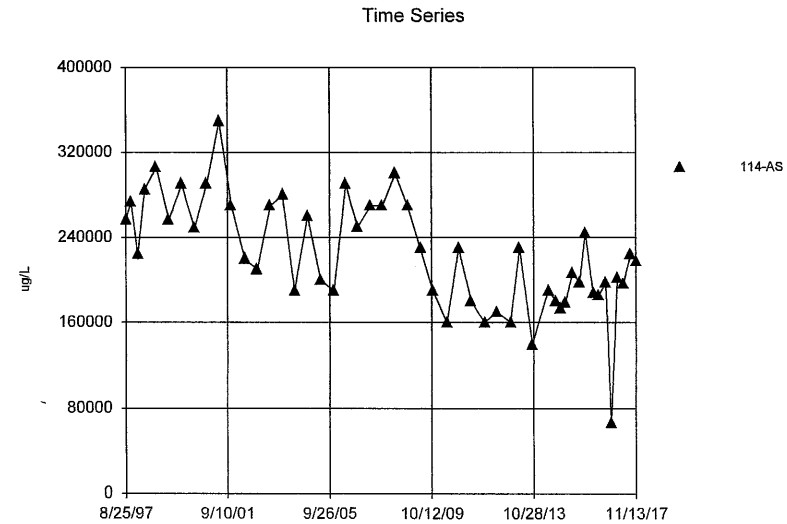

Constituent: Calcium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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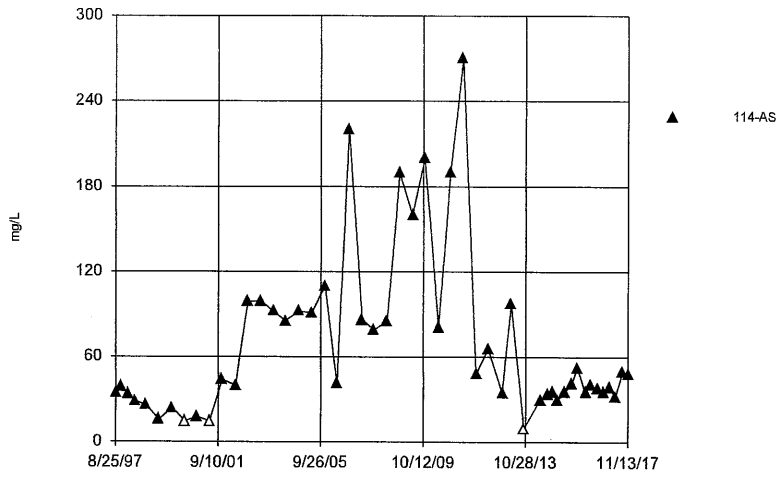
Hollow symbols indicate censored values.

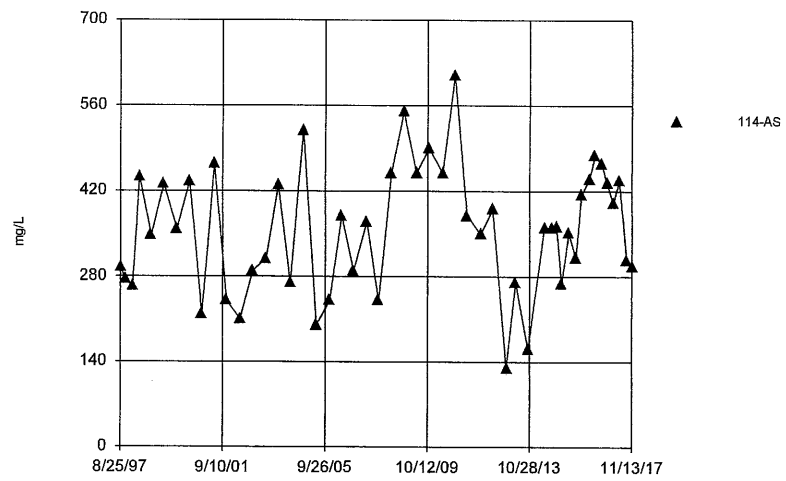
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

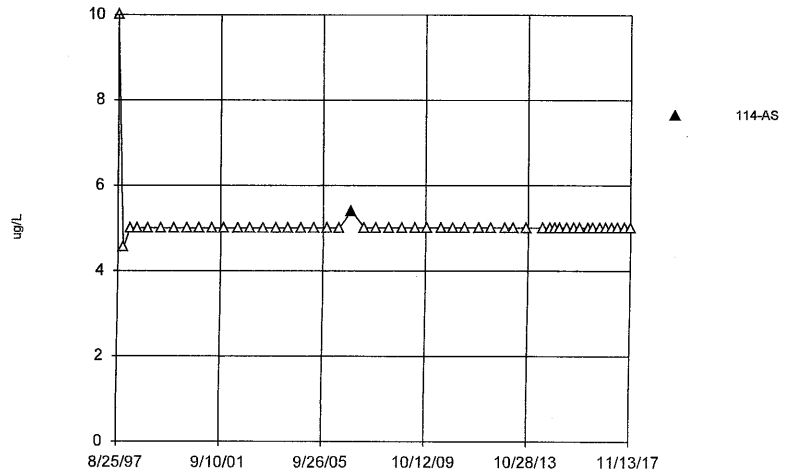
Time Series



Constituent: Chloride Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

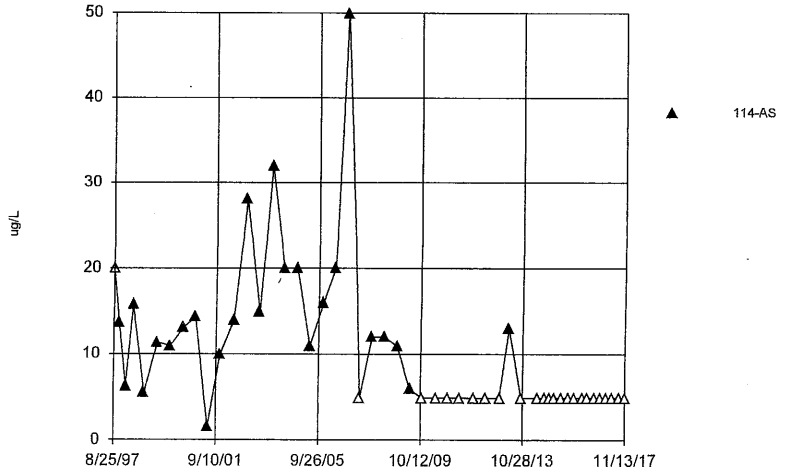
Time Series



Constituent: Chromium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

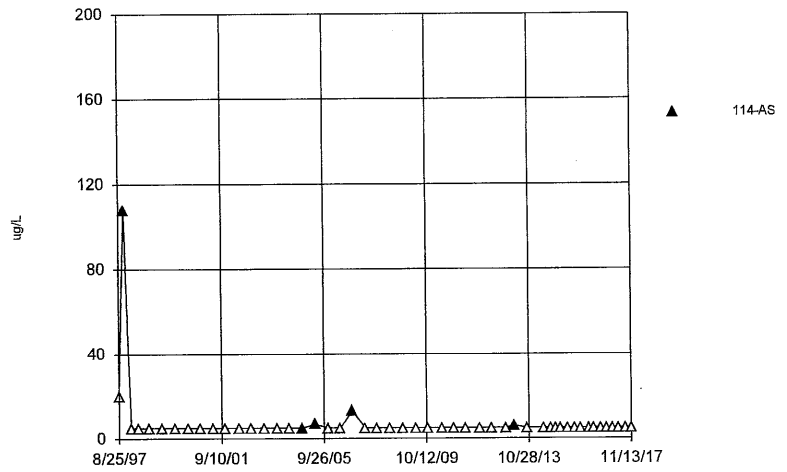
Time Series



Constituent: Cobalt Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

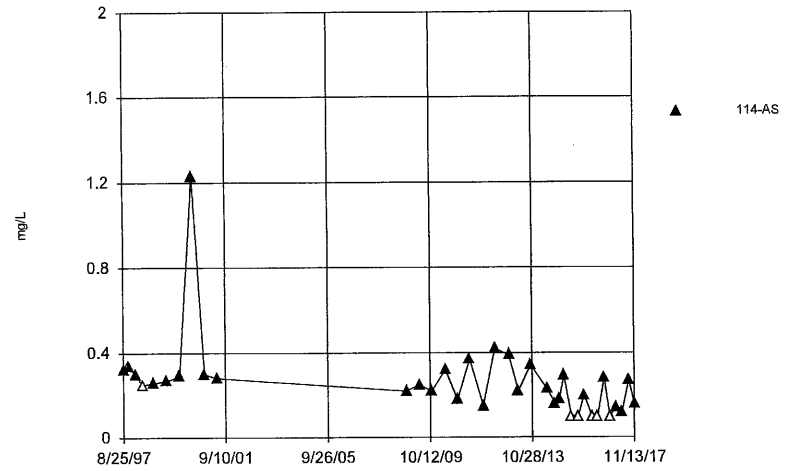
Time Series



Constituent: Copper Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

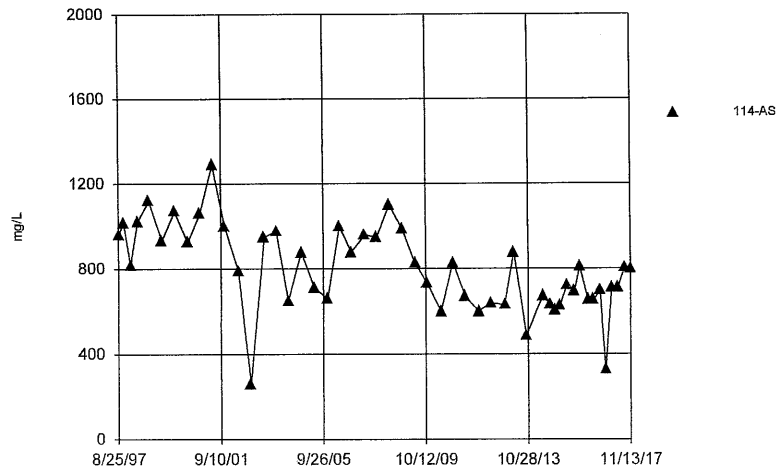
Time Series



Constituent: Fluoride Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

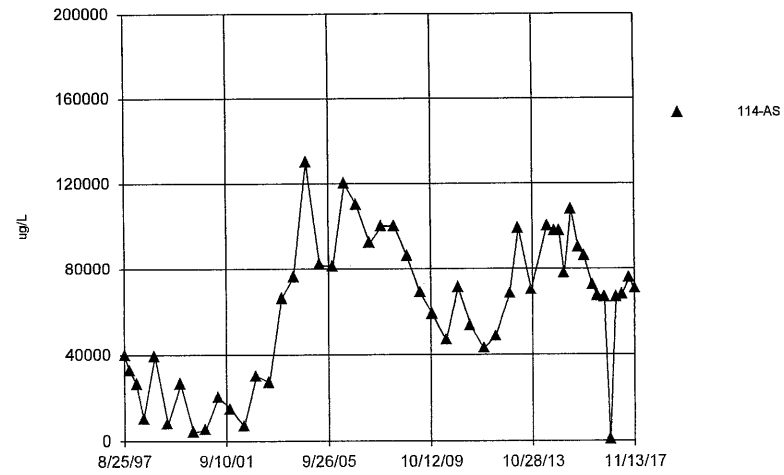
Time Series



Constituent: Hardness Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

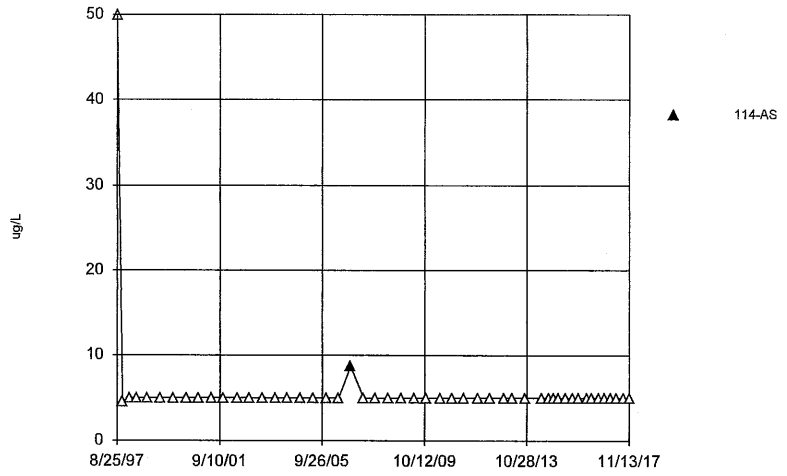
Time Series



Constituent: Iron Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

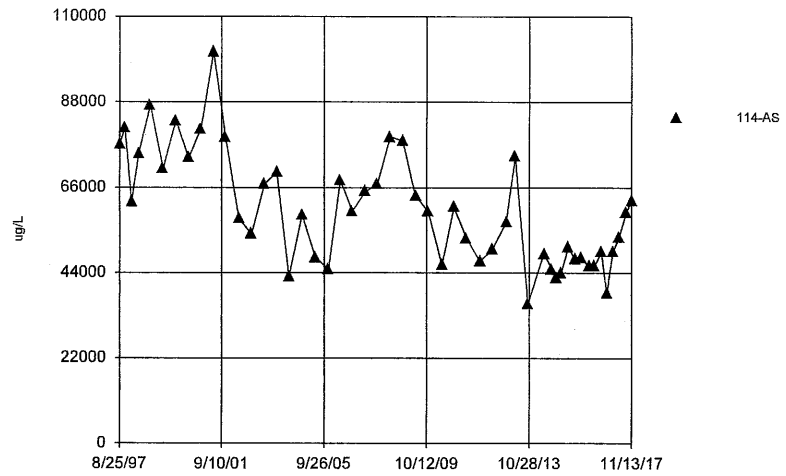
Time Series



Constituent: Lead Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

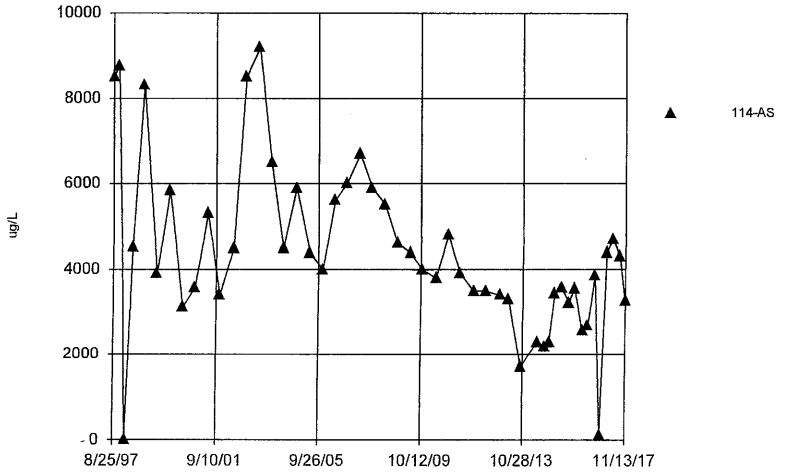
Time Series



Constituent: Magnesium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

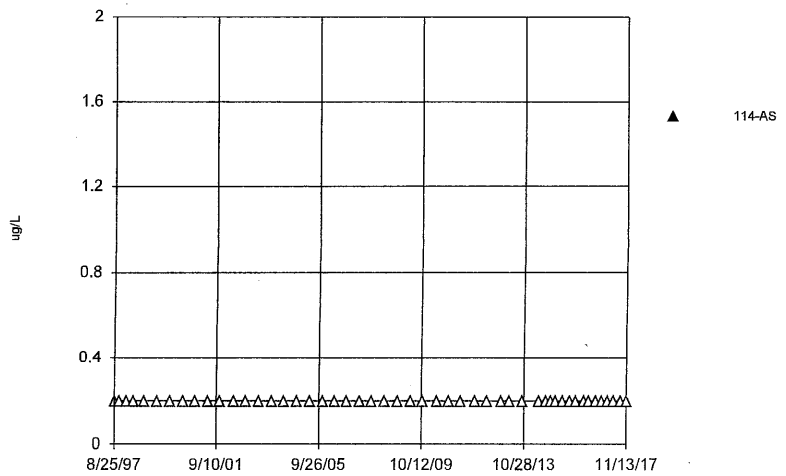
Time Series



Constituent: Manganese Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

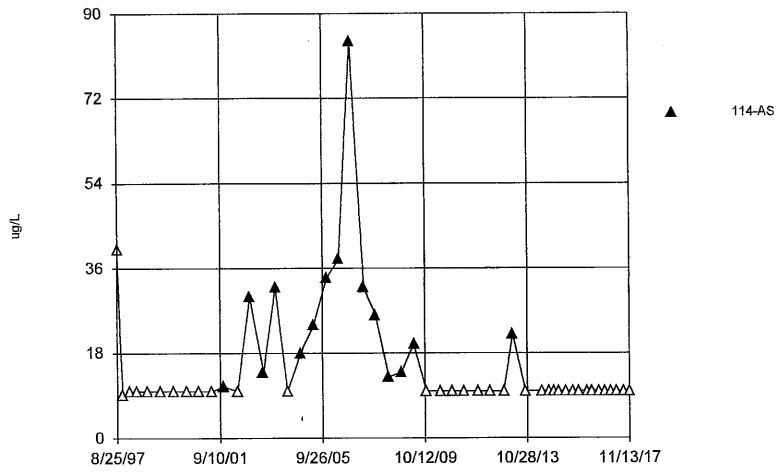
Time Series



Constituent: Mercury Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

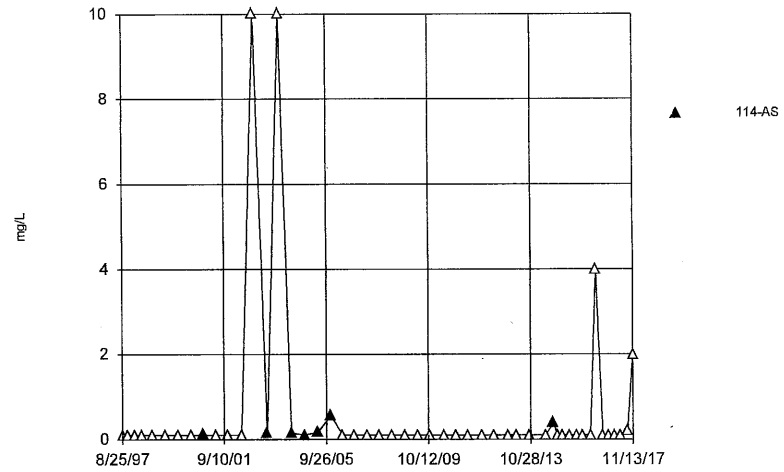
Time Series



Constituent: Nickel Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

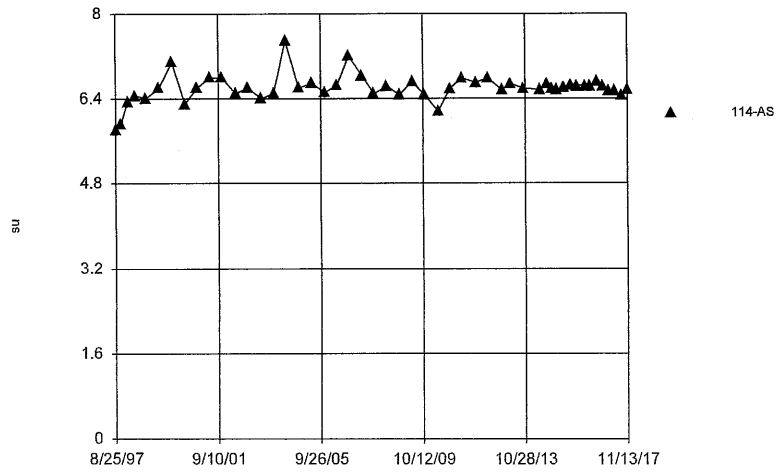
Time Series



Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

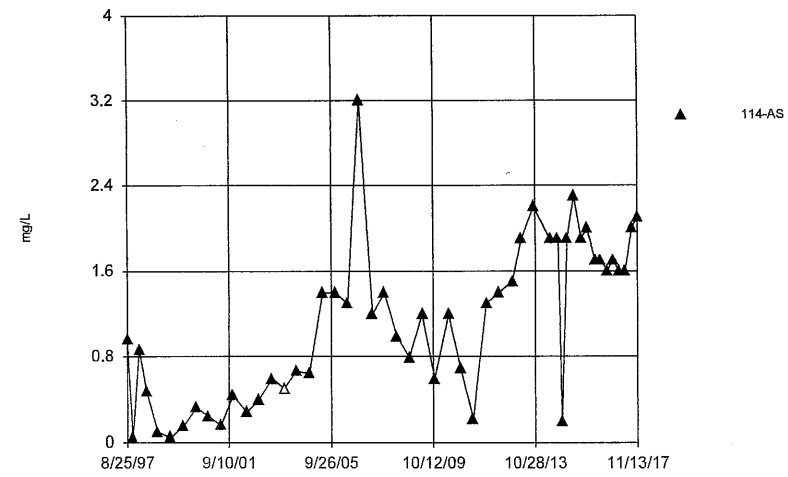
Time Series



Constituent: pH [Field] Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

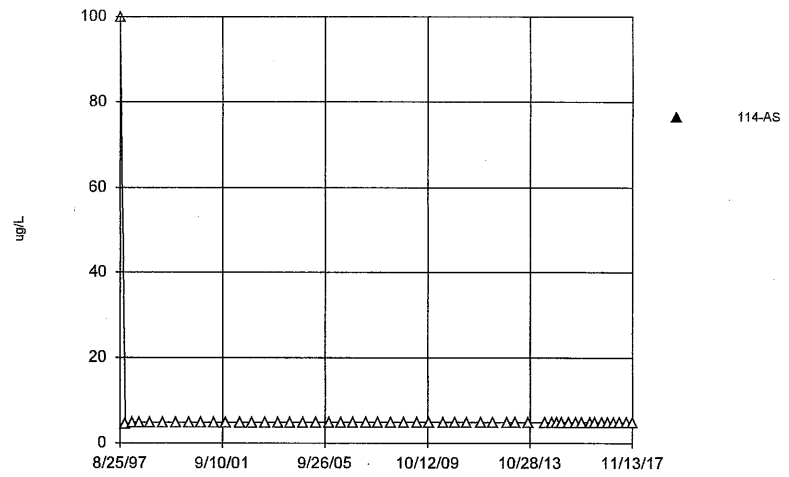
Time Series



Constituent: Phosphorus Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

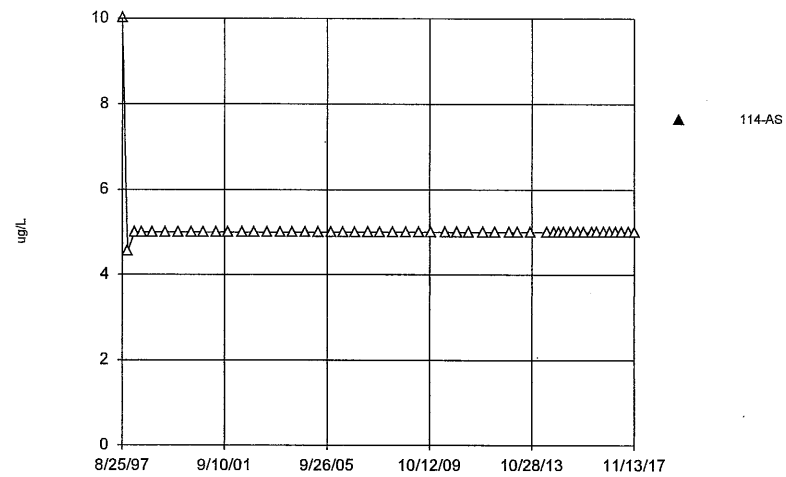
Time Series



Constituent: Selenium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

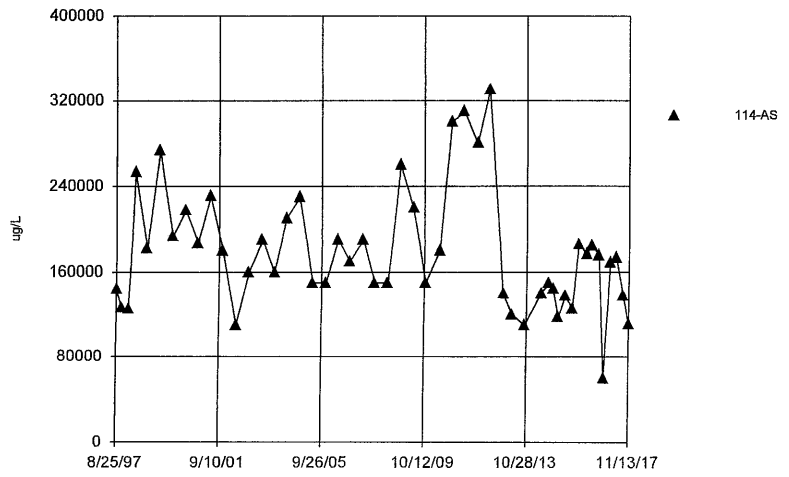
Time Series



Constituent: Silver Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

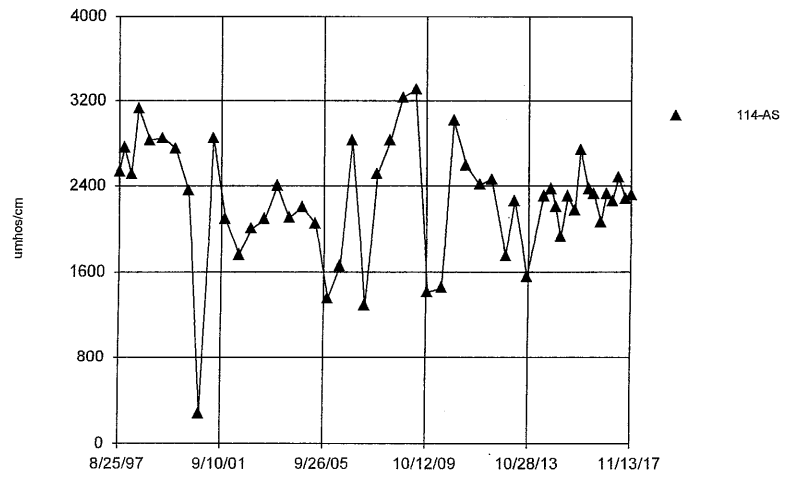
Time Series



Constituent: Sodium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

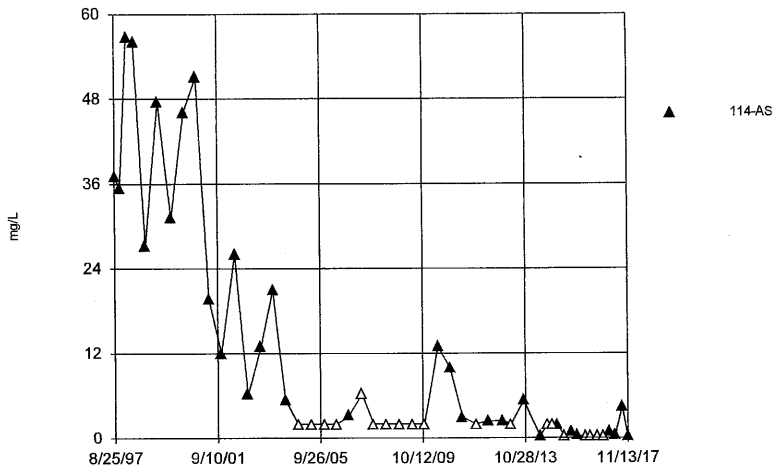
Time Series



Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

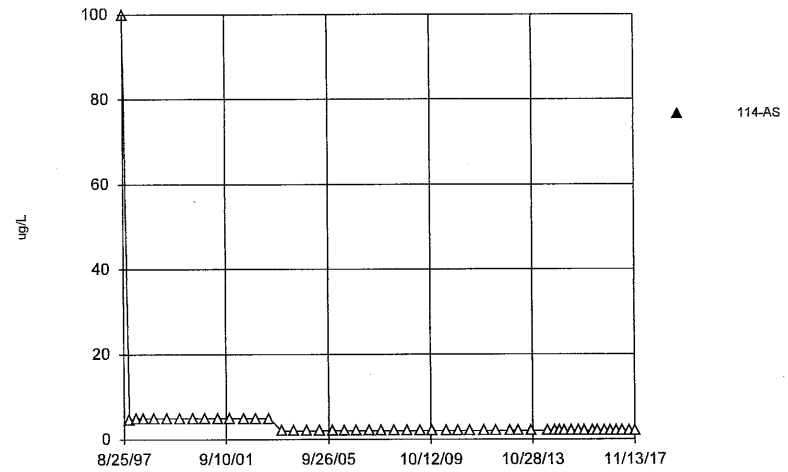
Time Series



Constituent: Sulfate Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

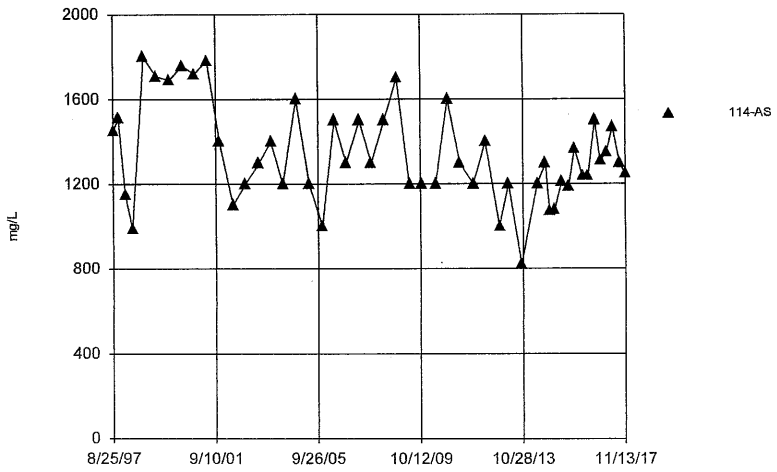
Time Series



Constituent: Thallium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

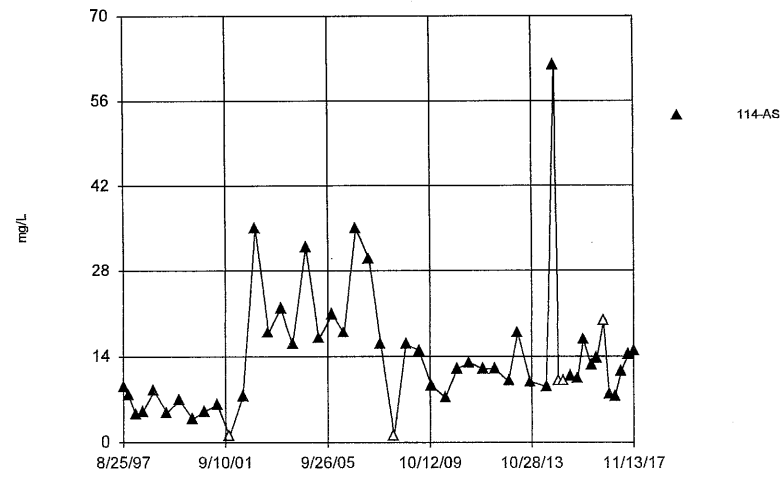
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

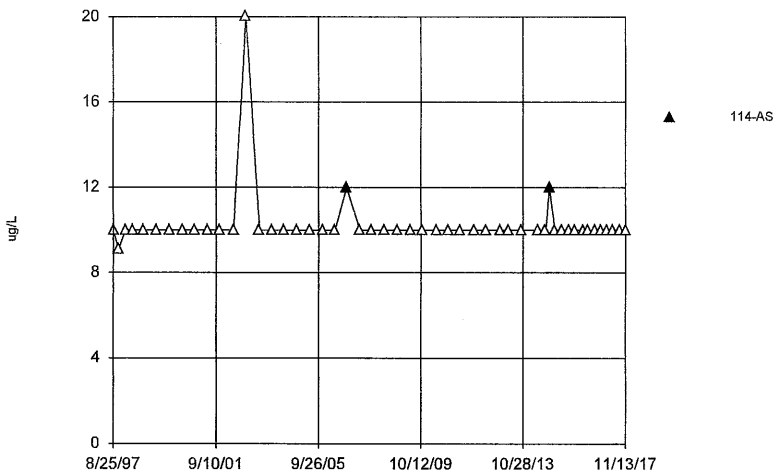
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

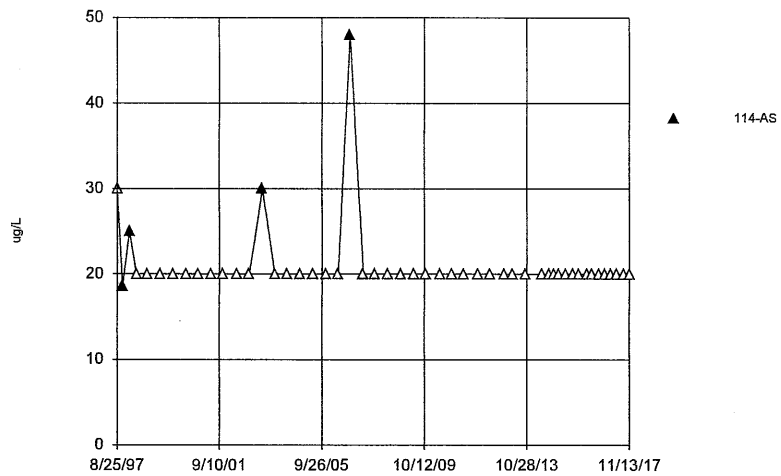
Time Series



Constituent: Vanadium Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

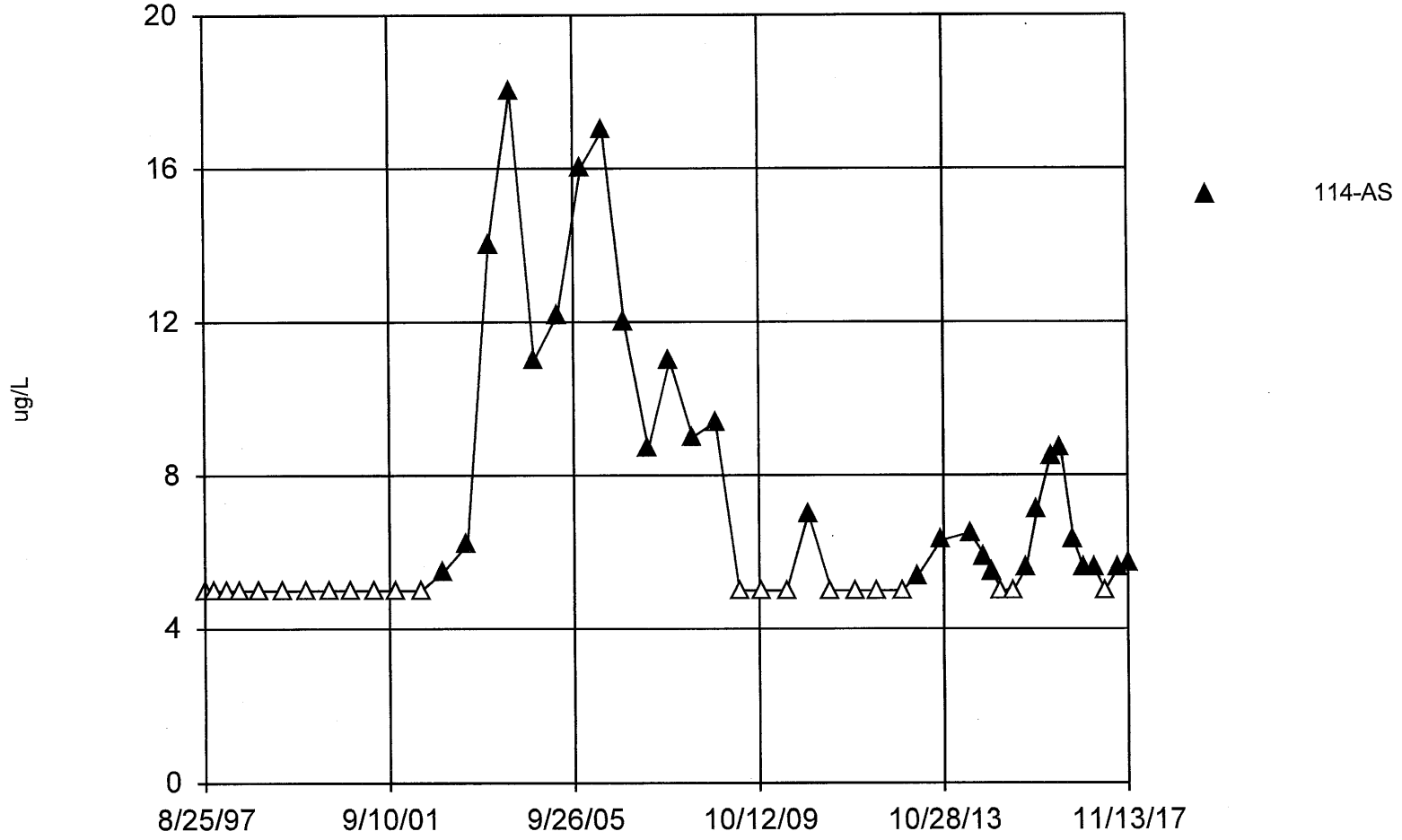
Time Series



Constituent: Zinc Total Analysis Run 12/30/2017 1:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

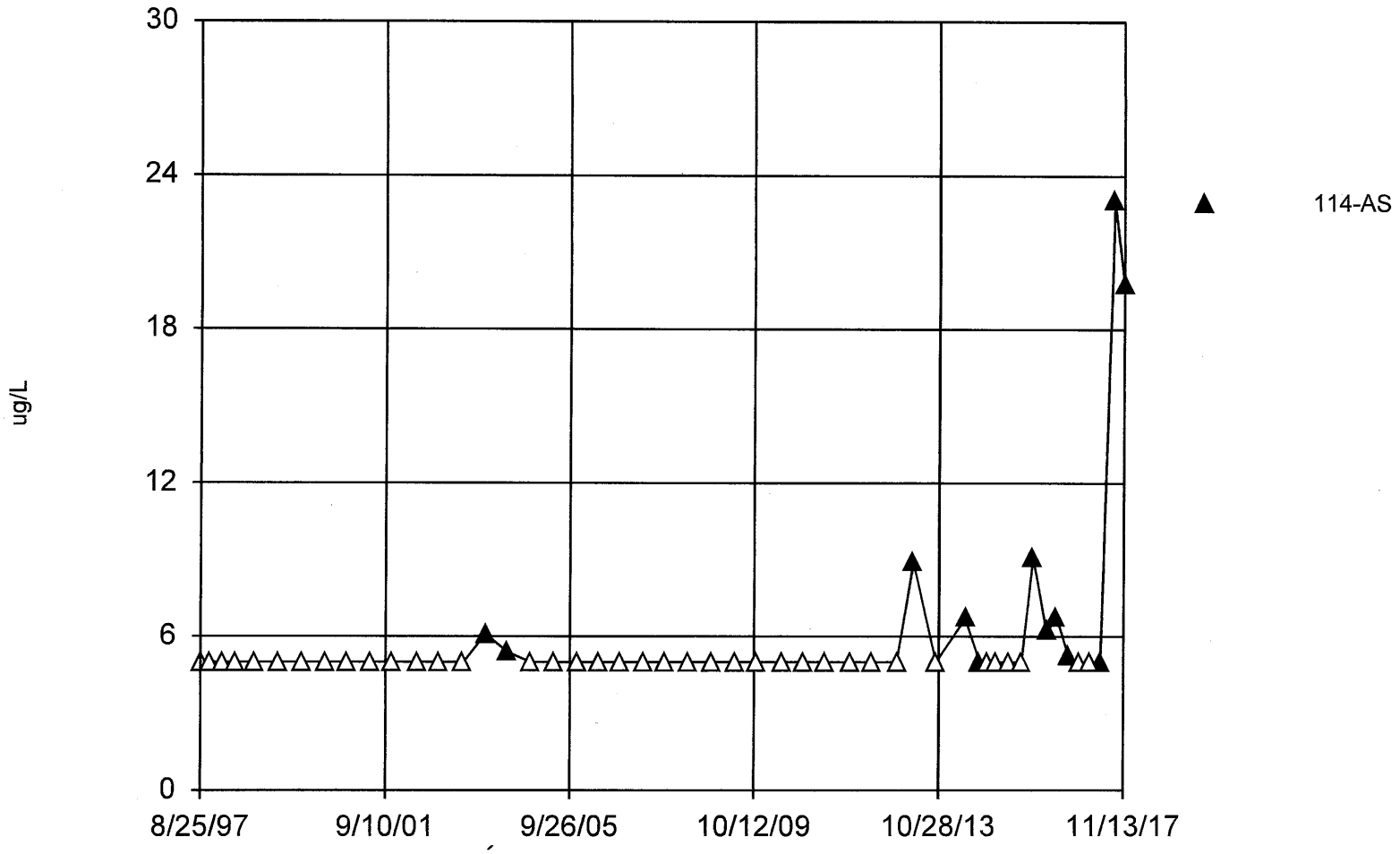


Constituent: 14-Dichlorobenzene Analysis Run 12/30/2017 1:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

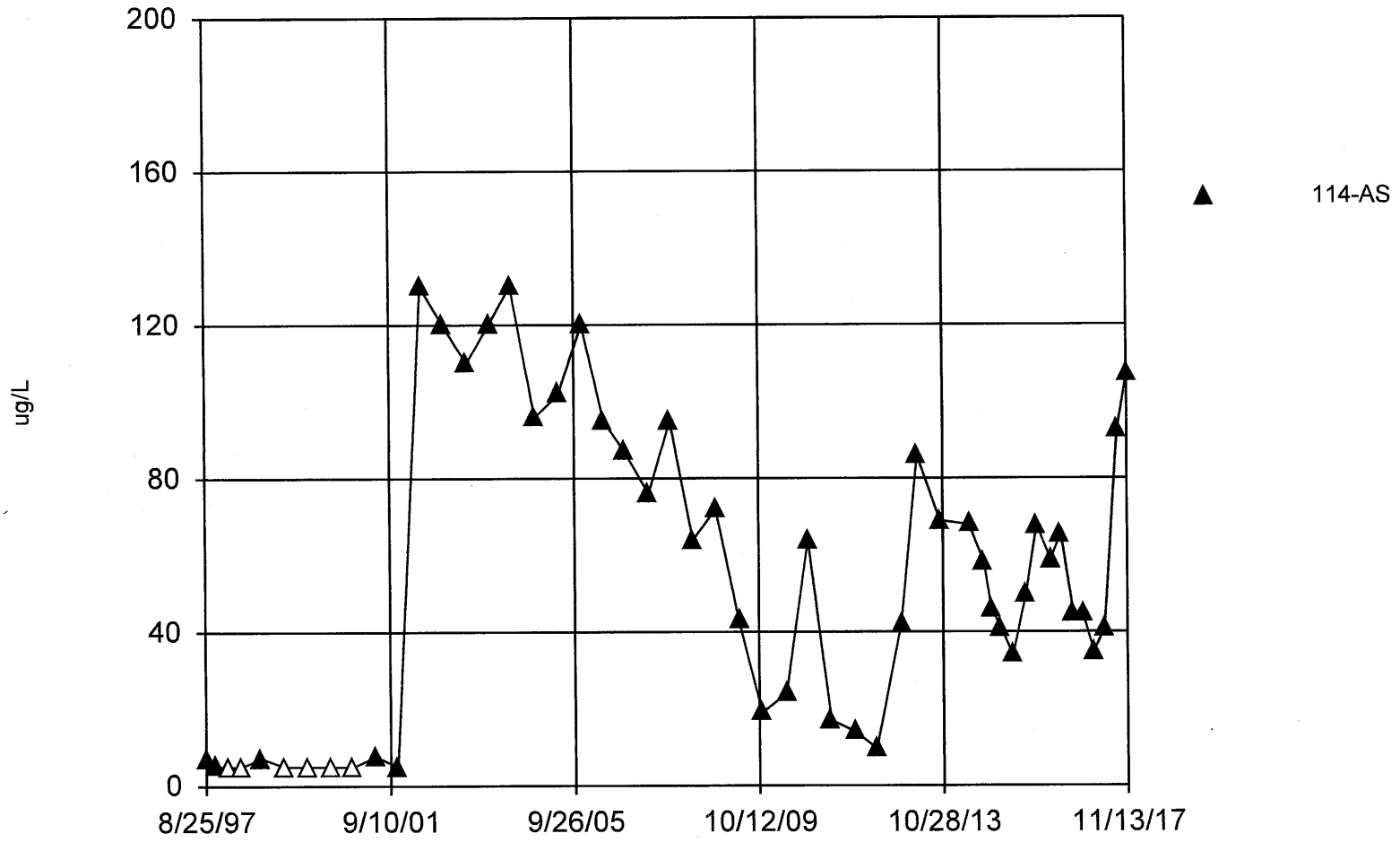


Constituent: Benzene Analysis Run 12/30/2017 1:42 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 12/30/2017 1:42 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

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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

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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

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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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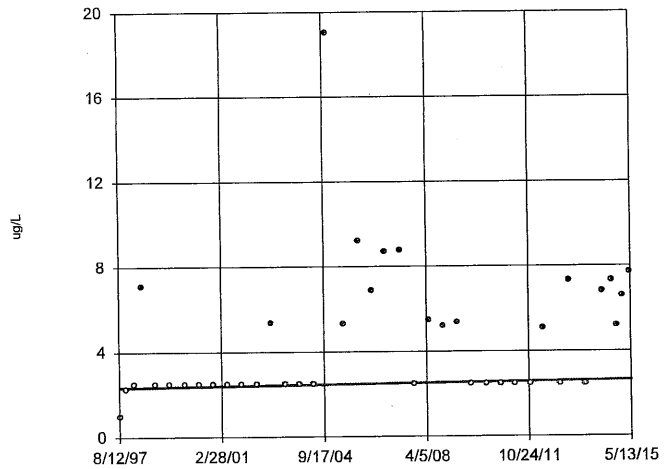
Hollow symbols indicate censored values.

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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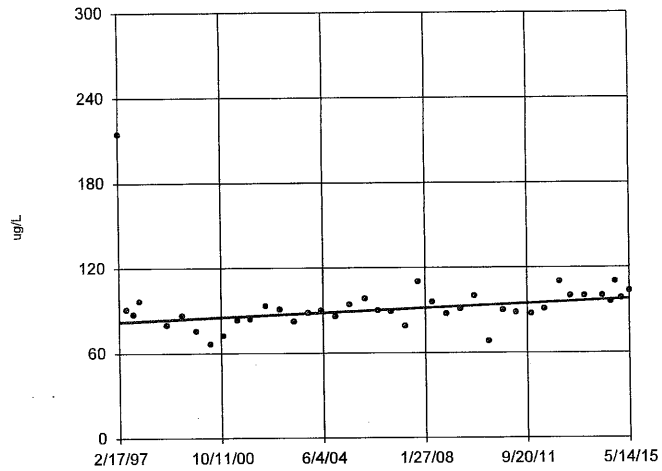
Sen's Slope Estimator

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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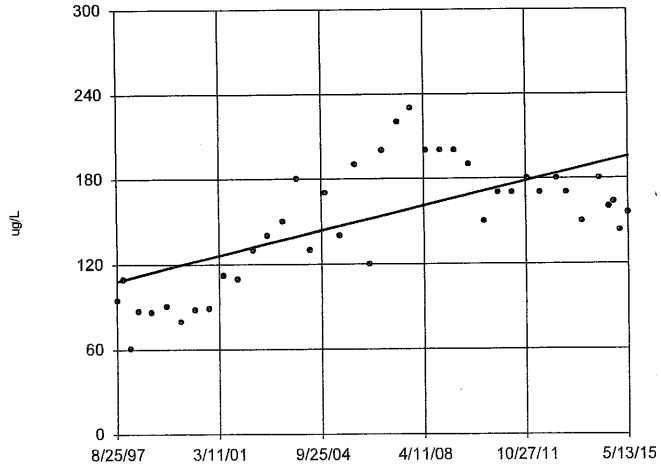
Sen's Slope Estimator

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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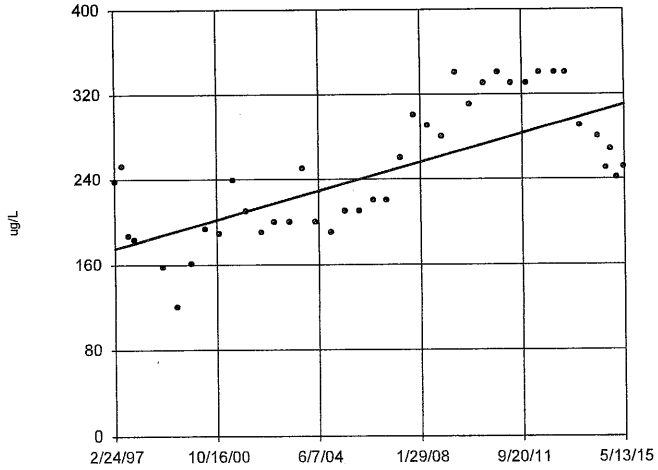
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 7.415 units per year.

Mann-Kendall statistic = 420 critical = 201

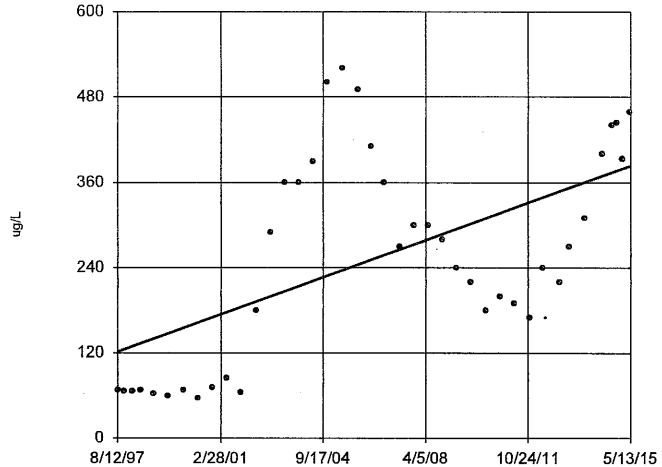
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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).

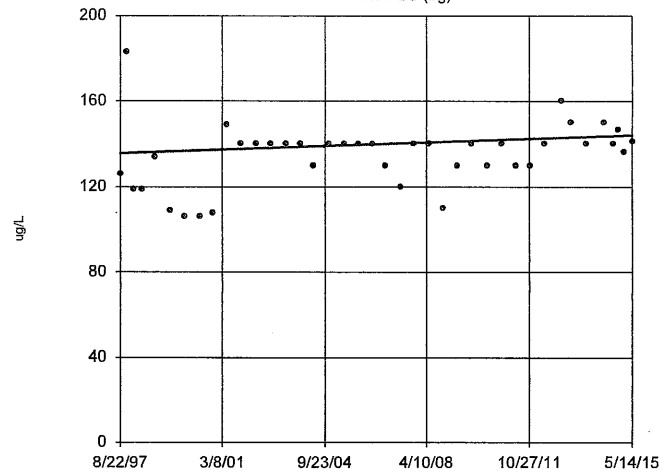
Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

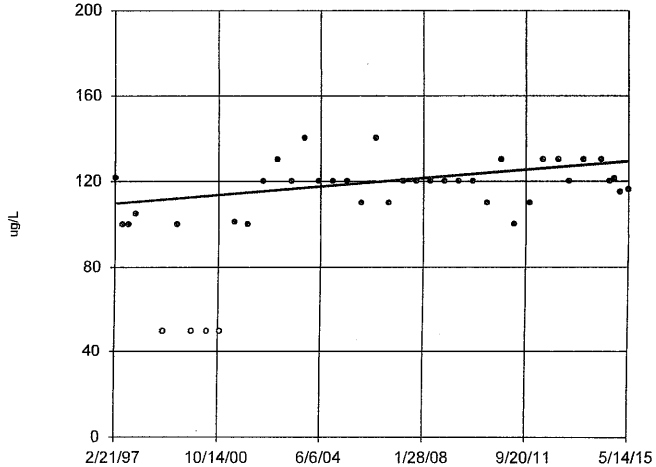
Constituent: Barium Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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 = 1.059 units per year.

Mann-Kendall statistic = 234 critical = 201

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

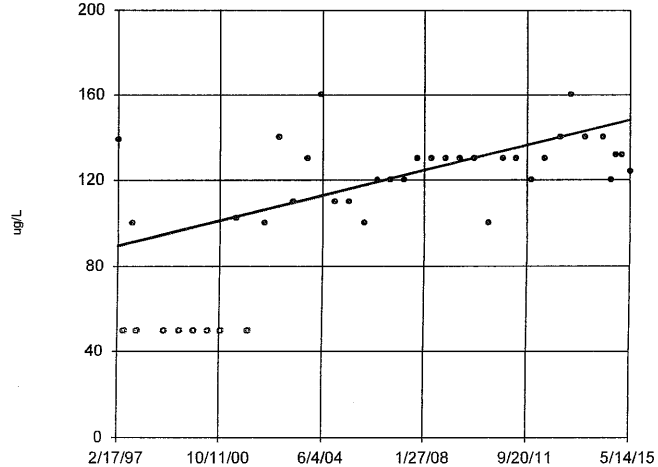
Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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 = 3.228 units per year.

Mann-Kendall statistic = 377 critical = 201

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

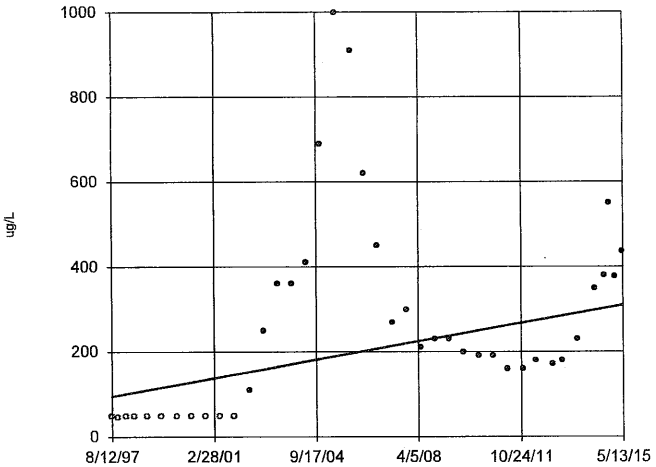
Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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 = 12.11 units per year.

Mann-Kendall statistic = 266 critical = 201

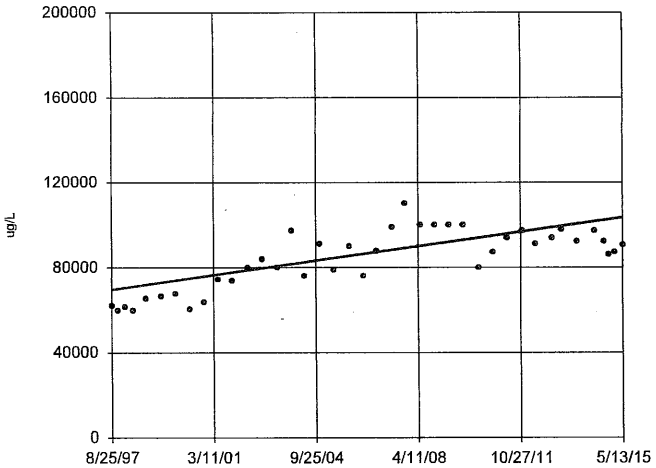
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 1908 units per year.

Mann-Kendall statistic = 403 critical = 201

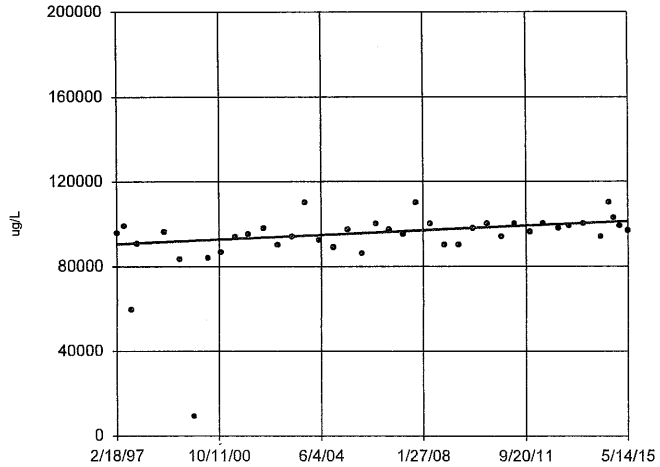
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 584.2 units per year.

Mann-Kendall statistic = 291 critical = 201

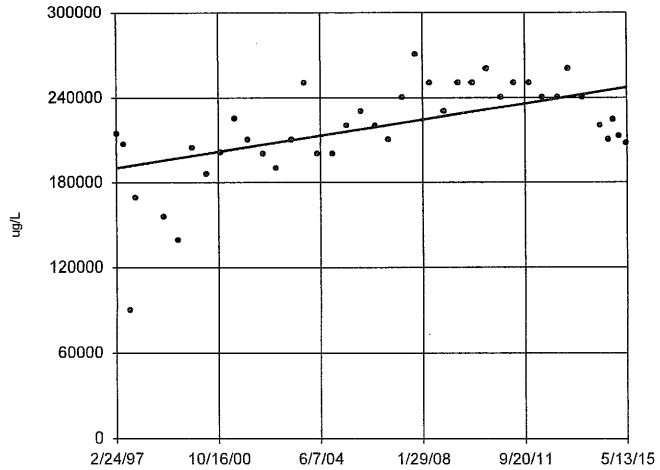
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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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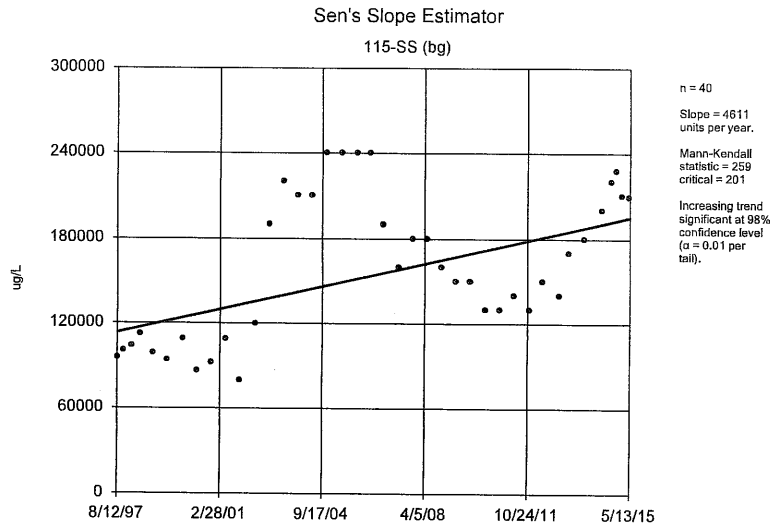
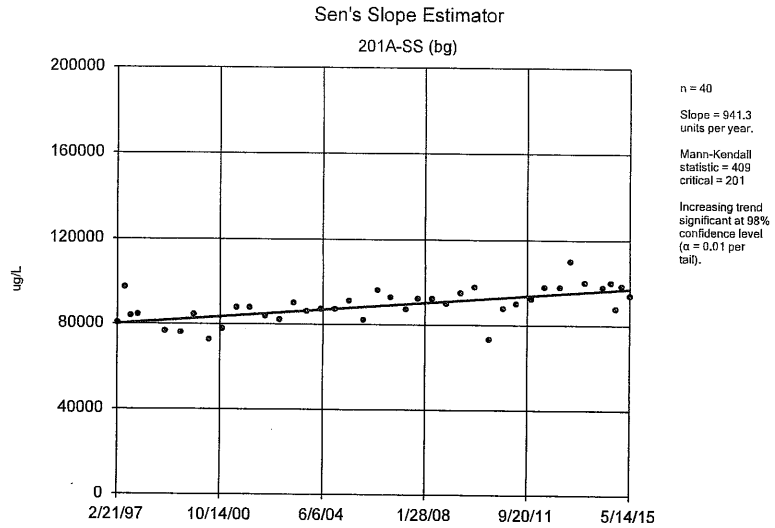


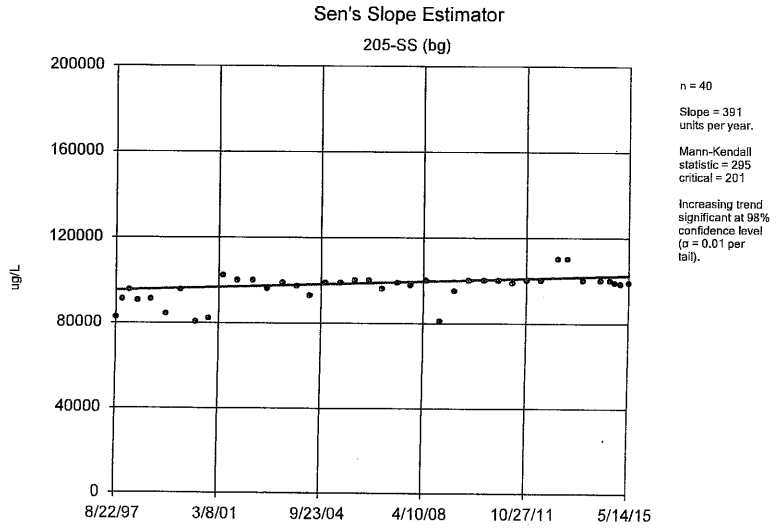
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



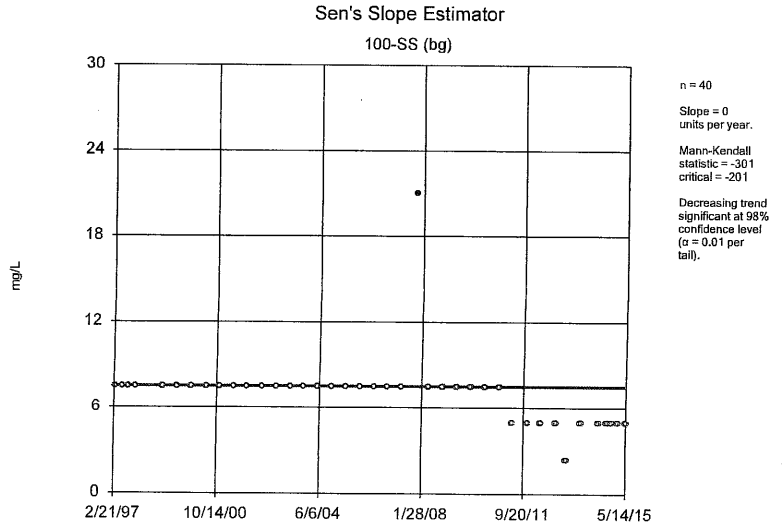
Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



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.

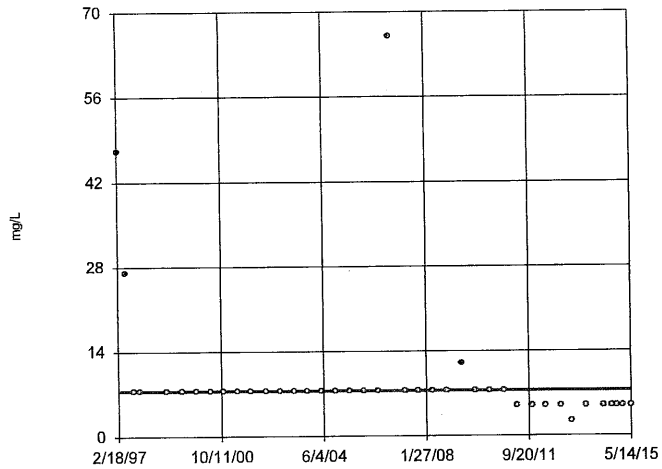


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -339
critical = -201

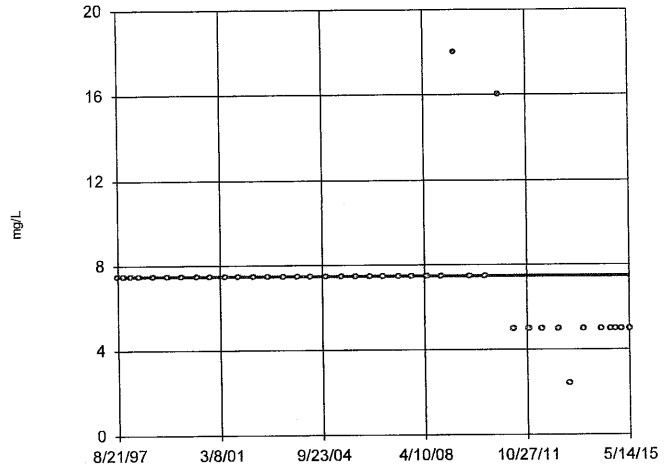
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

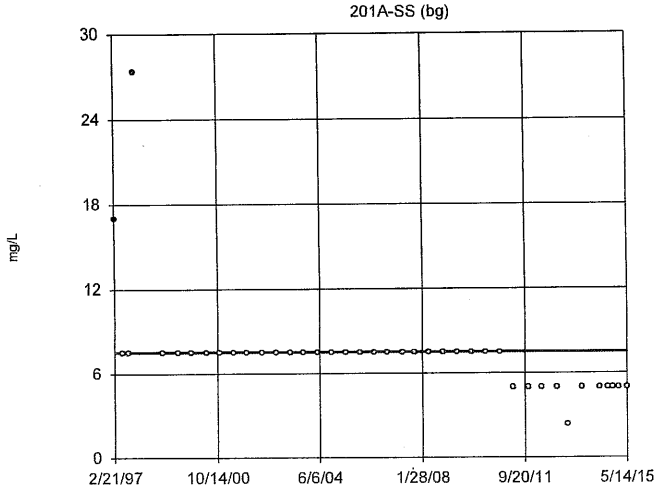
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

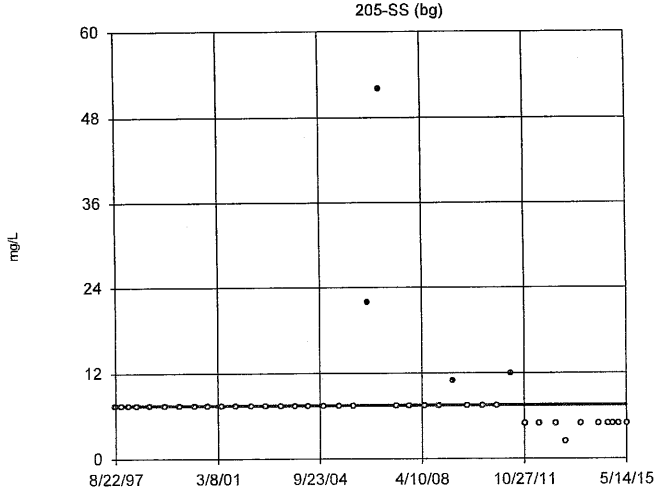
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

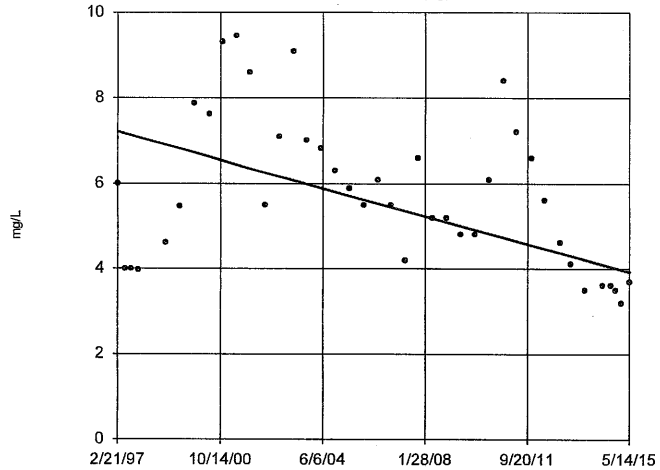
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -0.1805 units per year.

Mann-Kendall statistic = -260 critical = -201

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

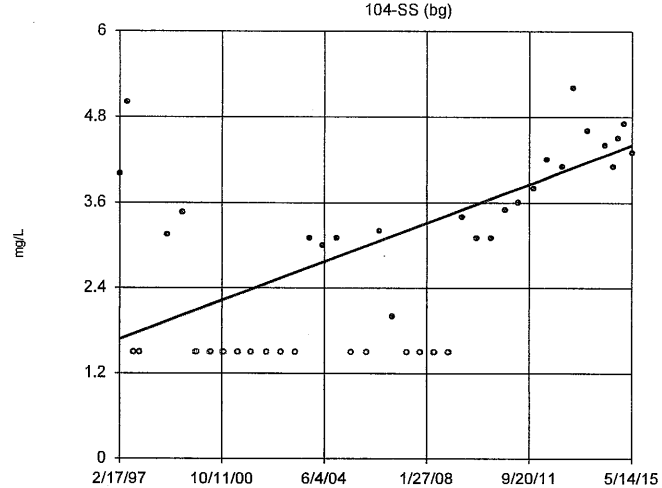
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

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

104-SS (bg)



n = 40

Slope = 0.1496 units per year.

Mann-Kendall statistic = 335 critical = 201

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

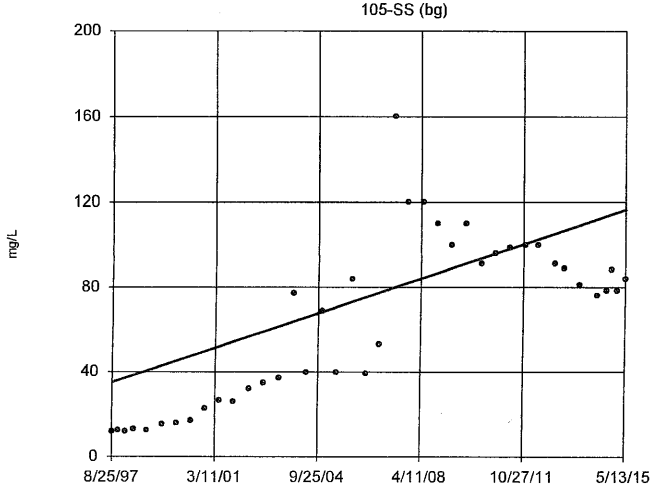
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 4.592 units per year.

Mann-Kendall statistic = 437 critical = 201

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

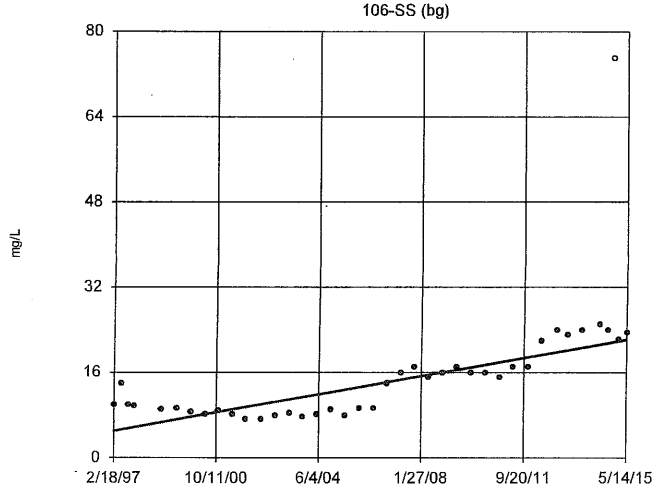
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

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

106-SS (bg)



n = 40

Slope = 0.9369 units per year.

Mann-Kendall statistic = 452 critical = 201

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

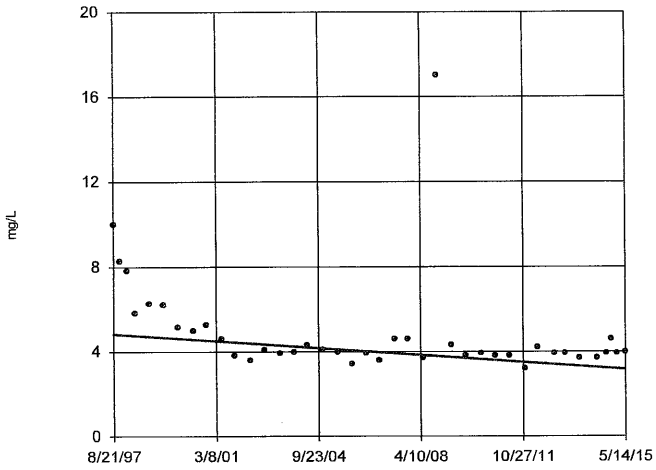
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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

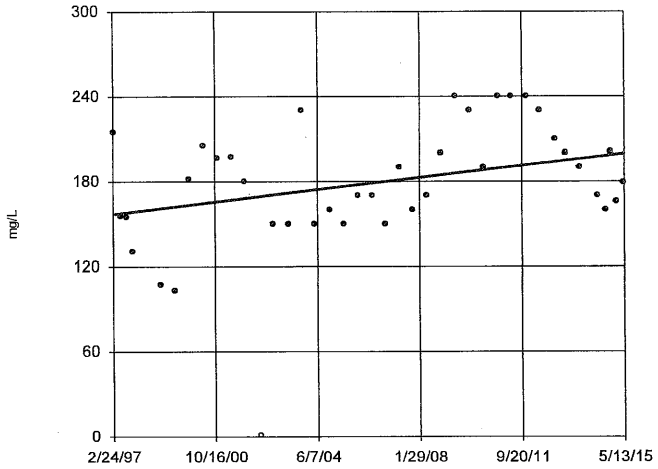
Bridgeton LF Client: RSI Data: BRIDGETON

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).

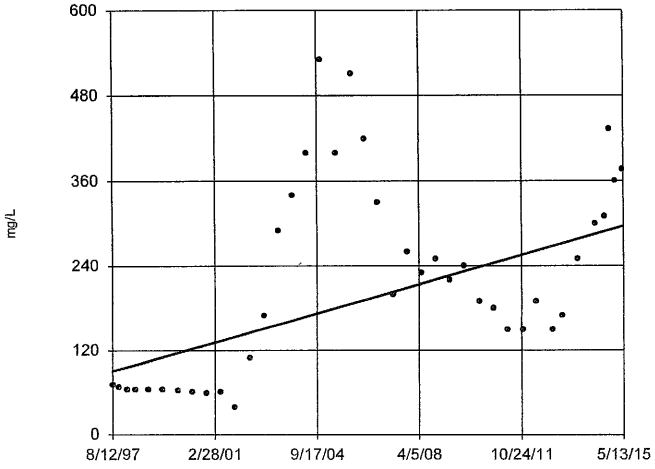
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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

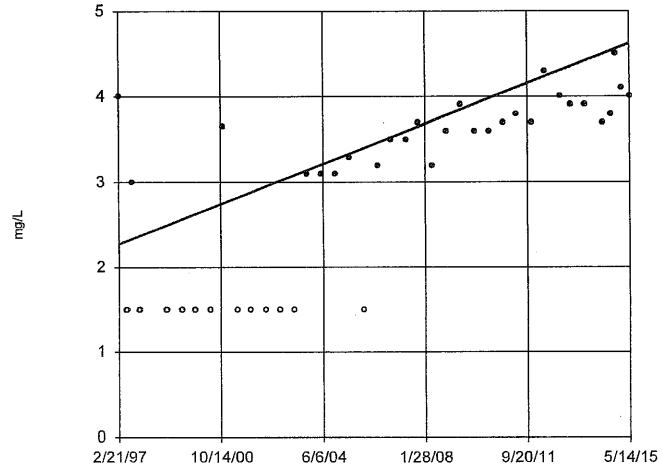
Bridgeton LF Client: RSI Data: BRIDGETON

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).

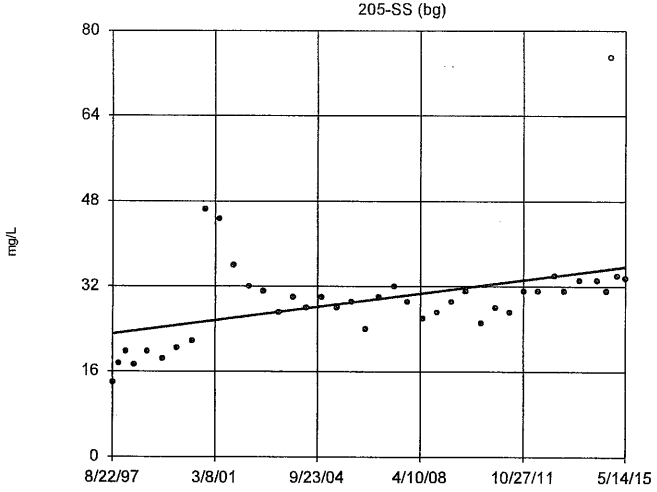
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

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

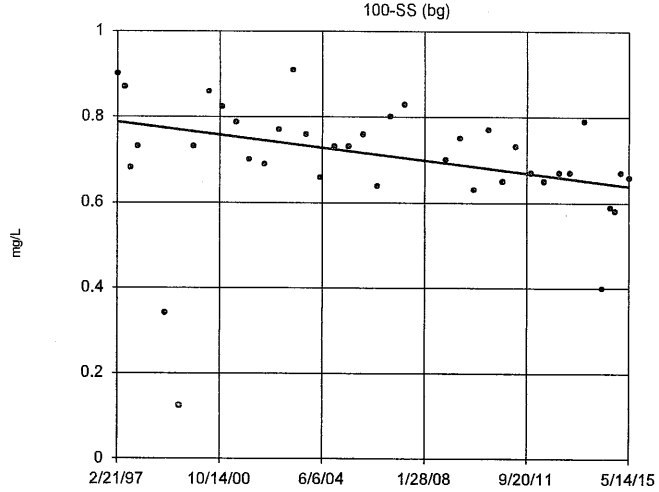
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

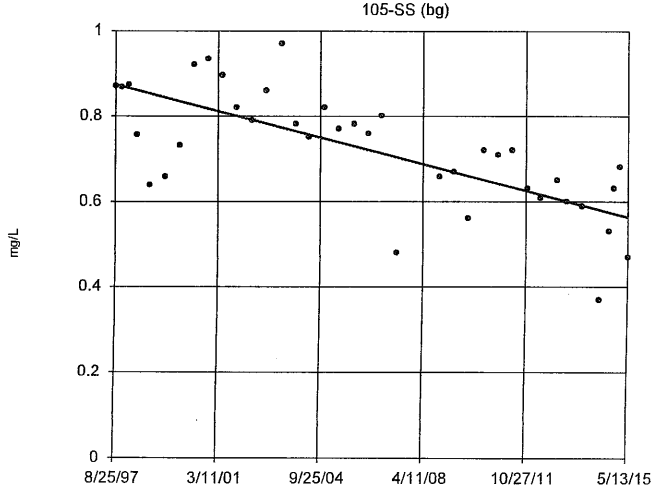
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

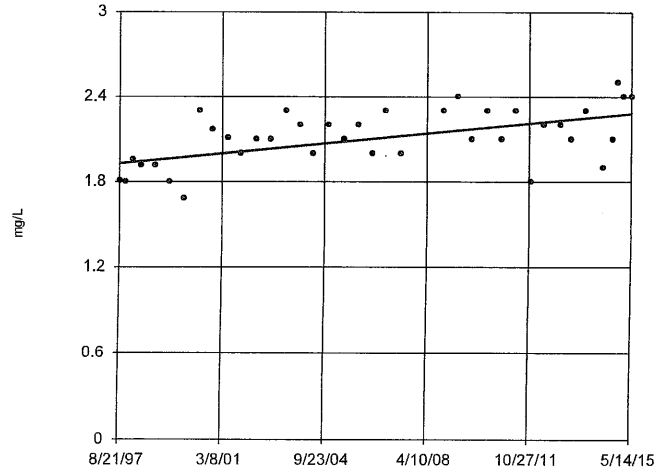
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

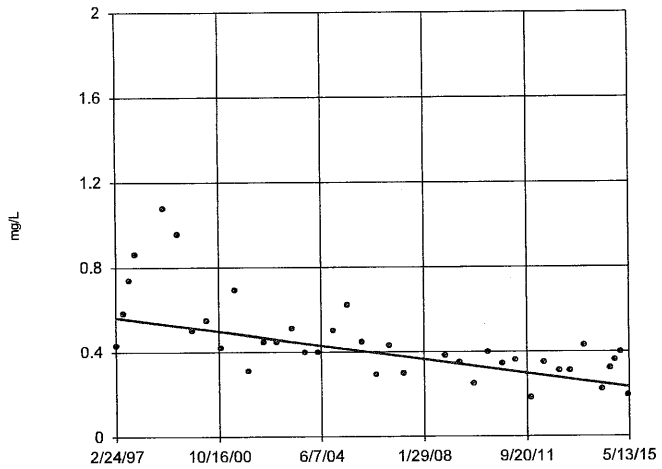
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

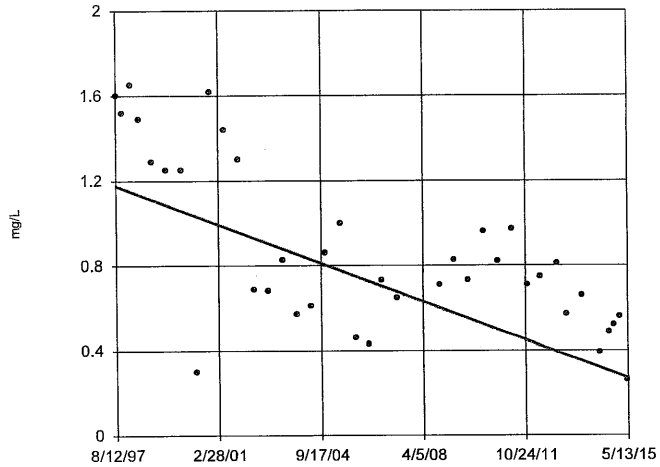
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

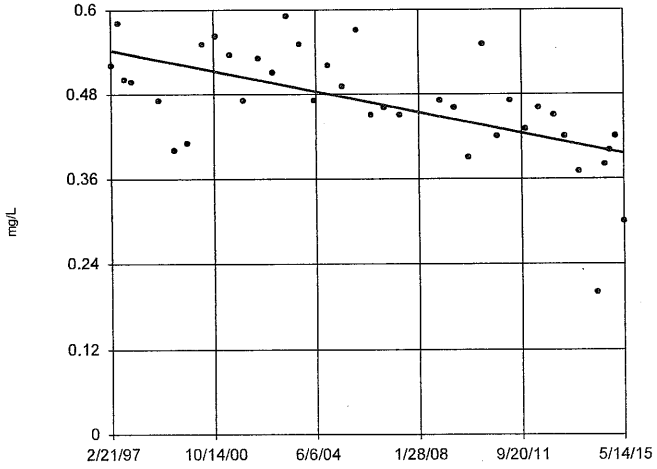
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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

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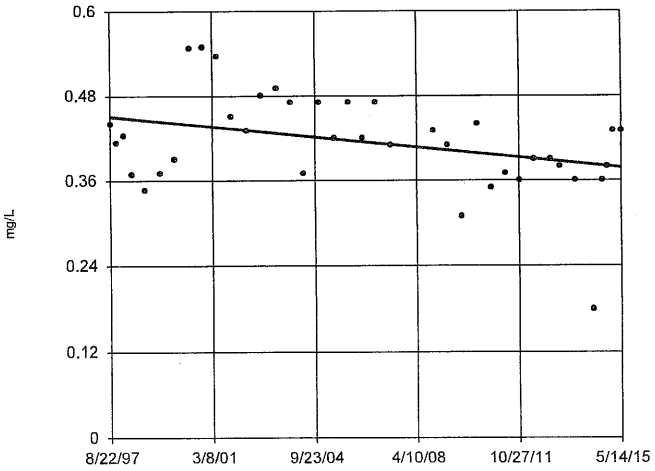
Sen's Slope Estimator

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

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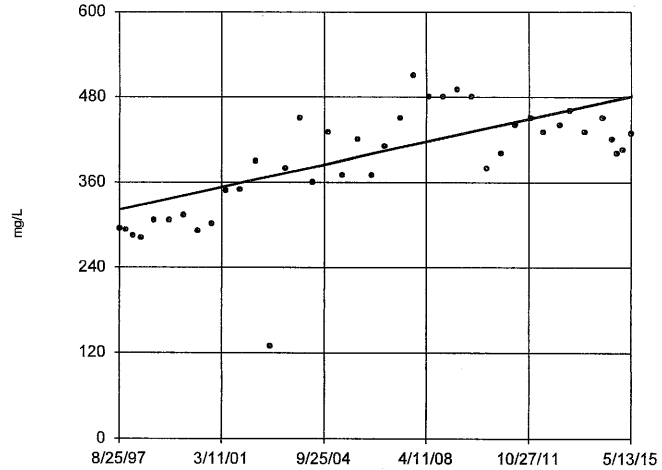
Sen's Slope Estimator

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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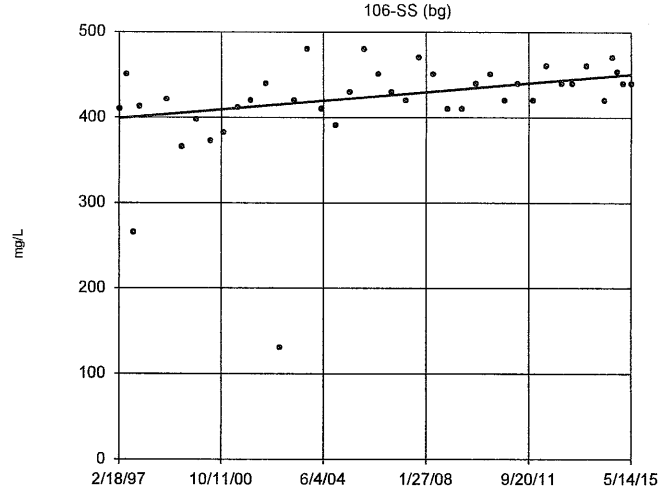
Sen's Slope Estimator

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

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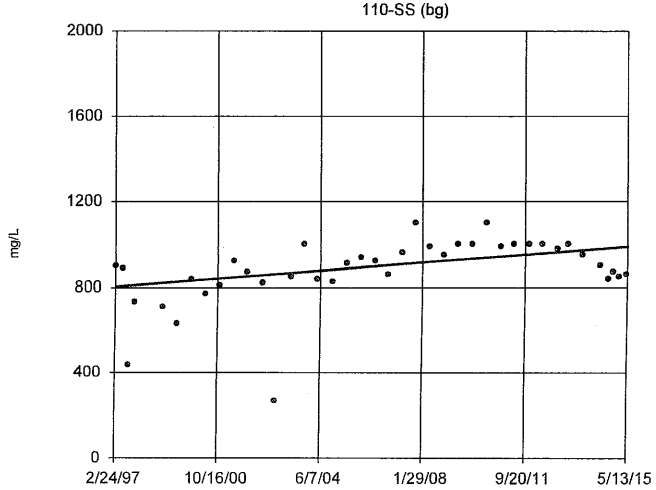
Sen's Slope Estimator

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

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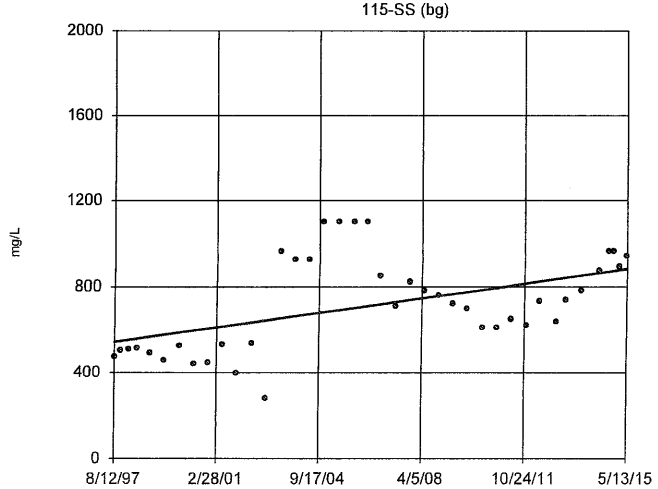
Sen's Slope Estimator

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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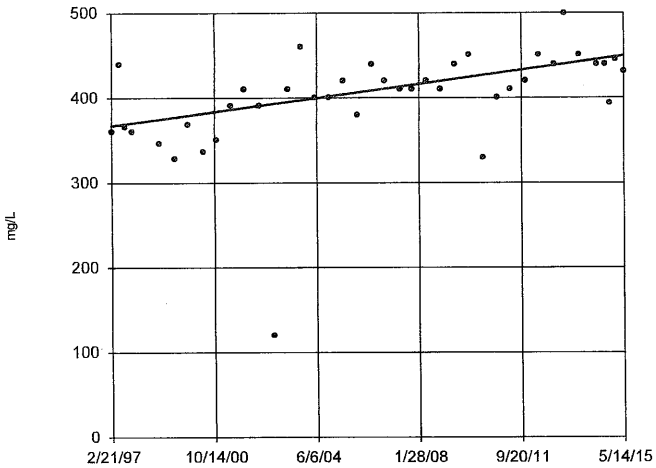
Sen's Slope Estimator

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

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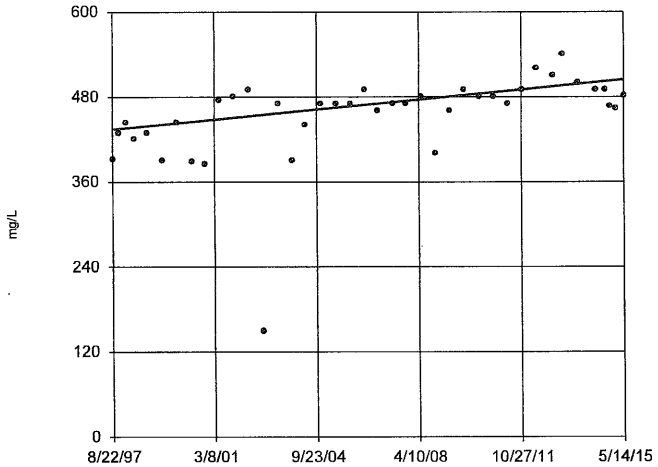
Sen's Slope Estimator

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

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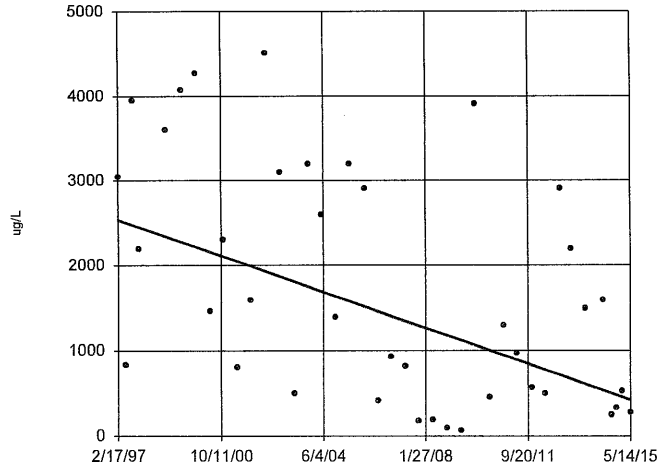
Sen's Slope Estimator

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

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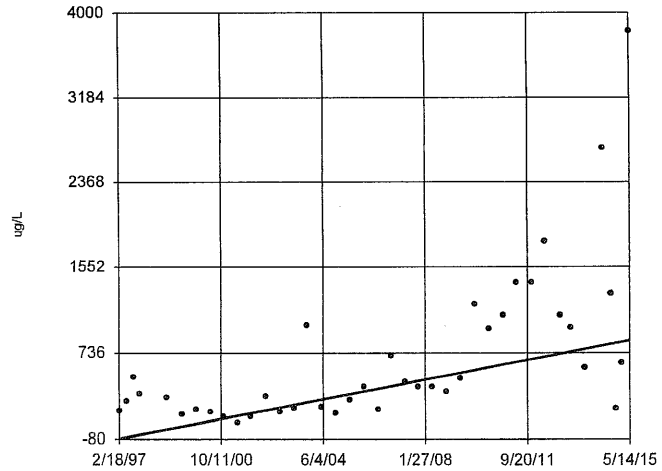
Sen's Slope Estimator

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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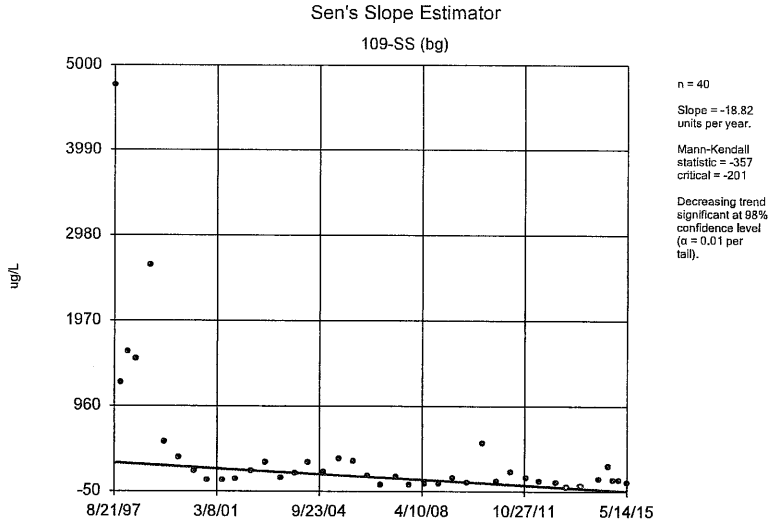
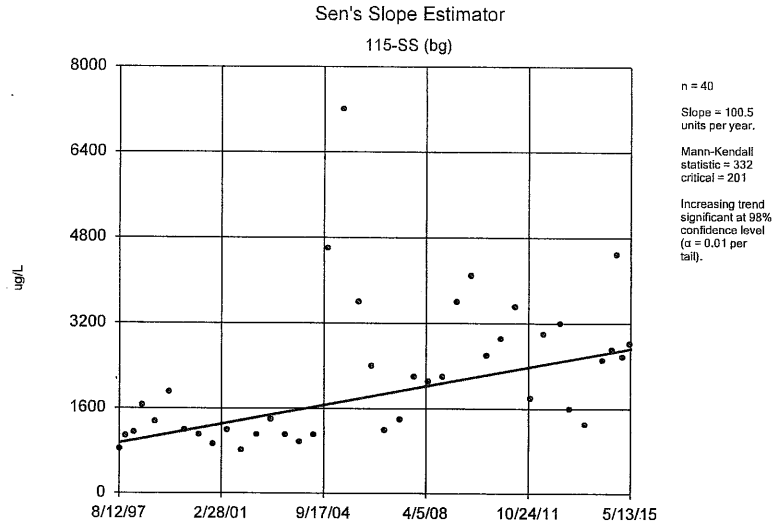
Hollow symbols indicate censored values.



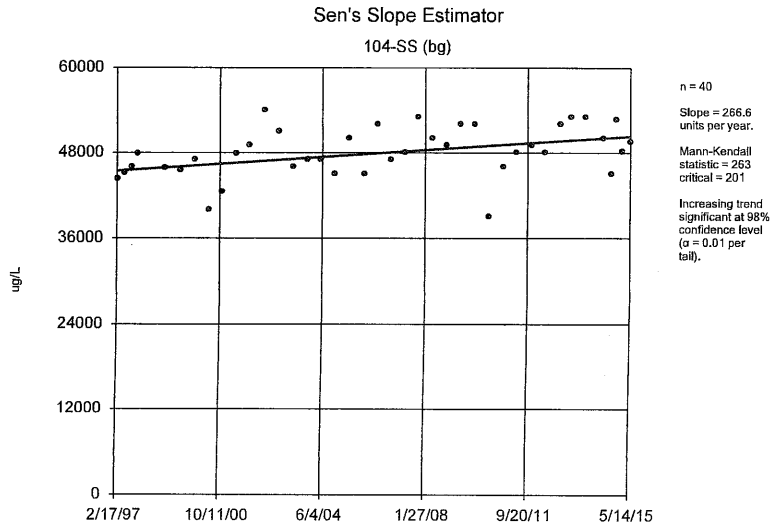
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



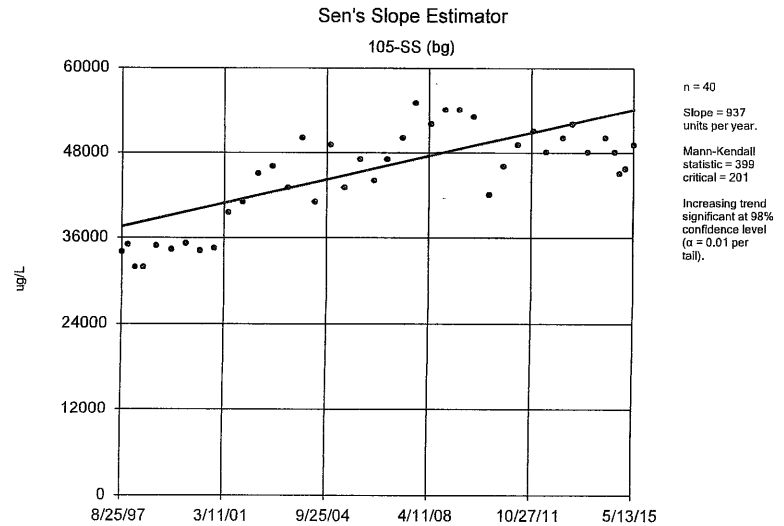
Constituent: Iron Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

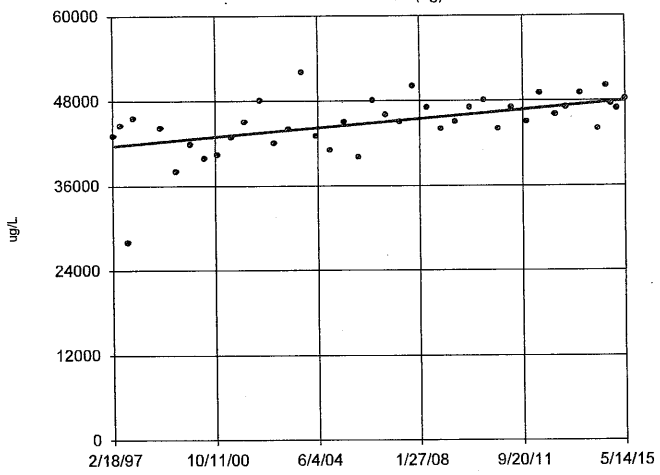


Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

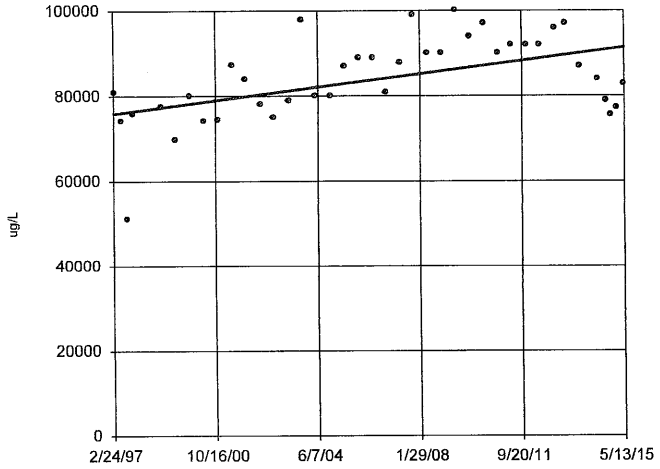
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

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).

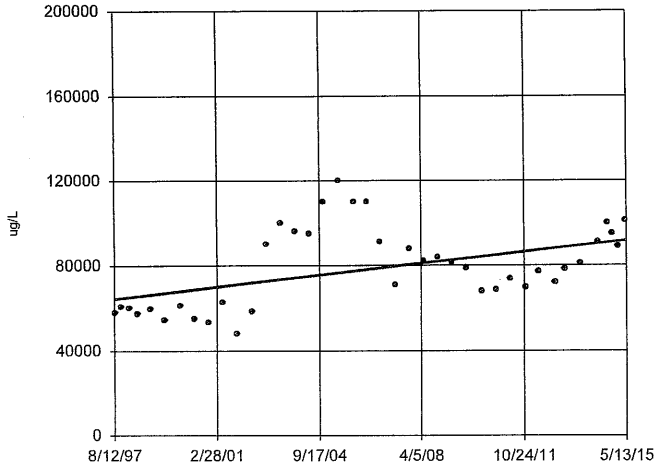
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

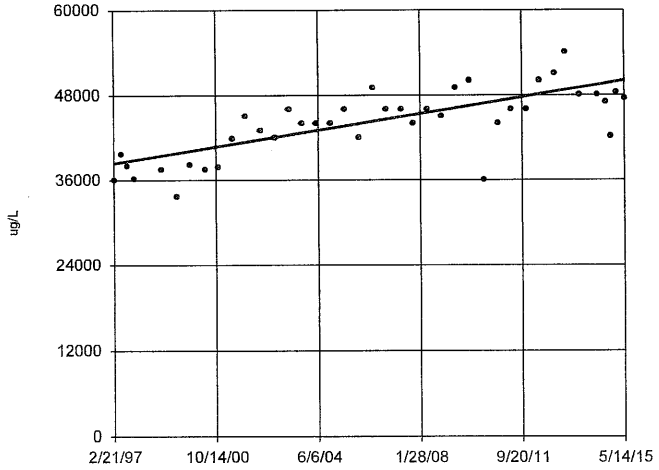
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

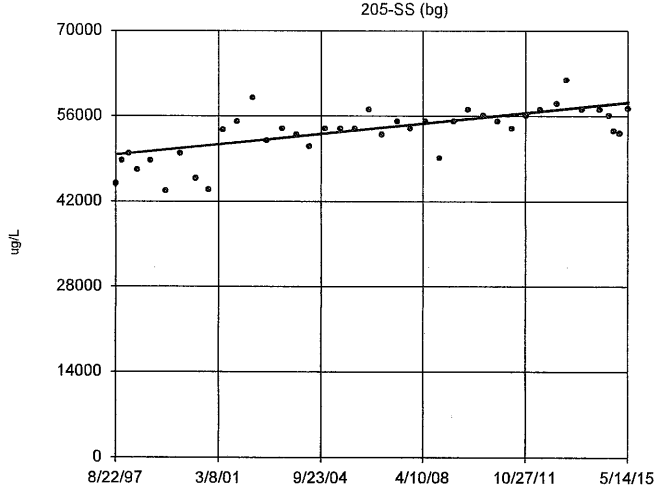
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 484.6 units per year.

Mann-Kendall statistic = 412 critical = 201

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

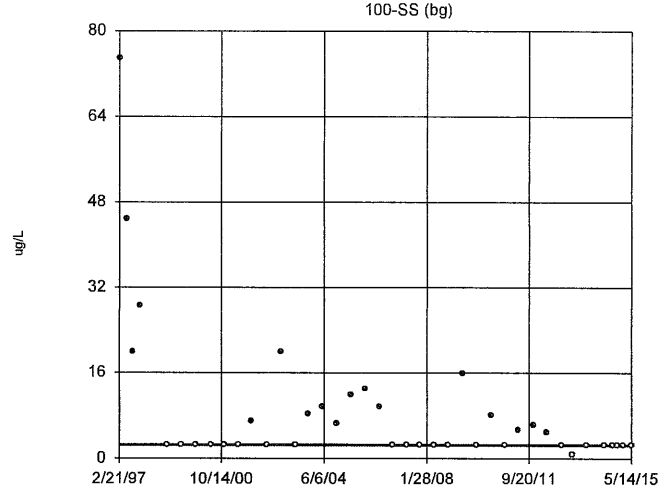
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -215 critical = -201

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

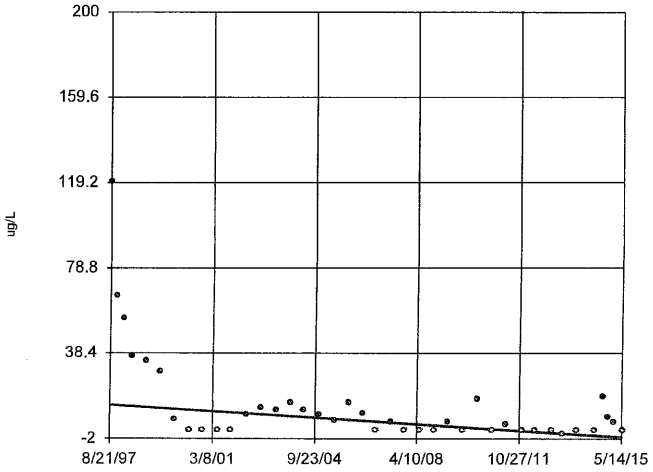
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM

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

109-SS (bg)



n = 40

Slope = -0.8628 units per year.

Mann-Kendall statistic = -304 critical = -201

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

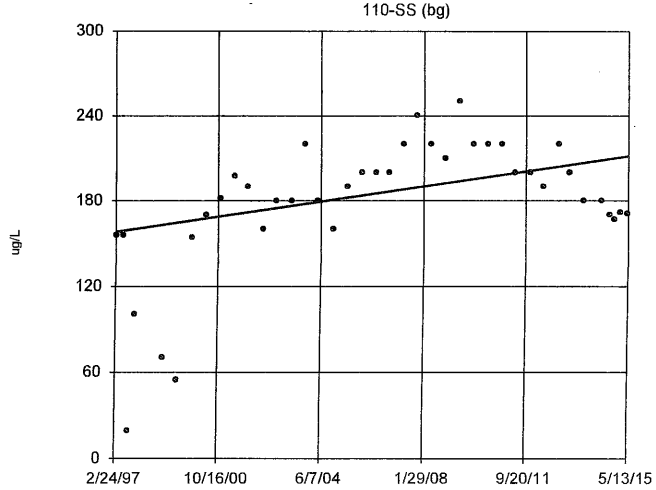
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 2.934 units per year.

Mann-Kendall statistic = 236 critical = 201

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

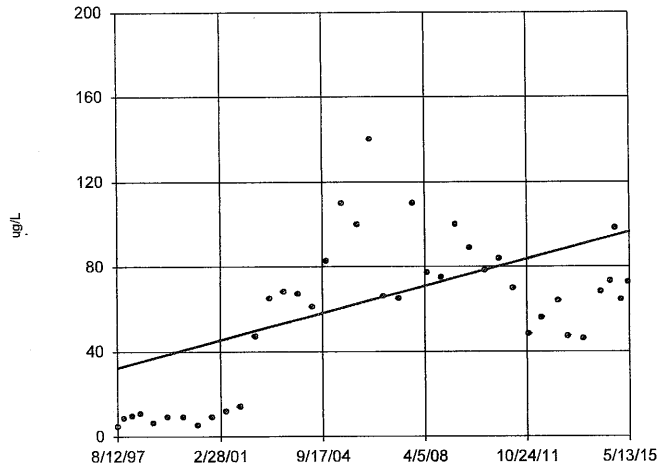
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

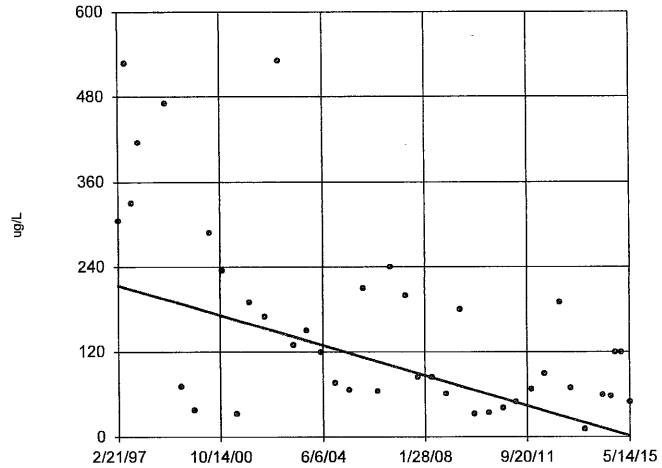
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -11.65 units per year.

Mann-Kendall statistic = -318
critical = -201

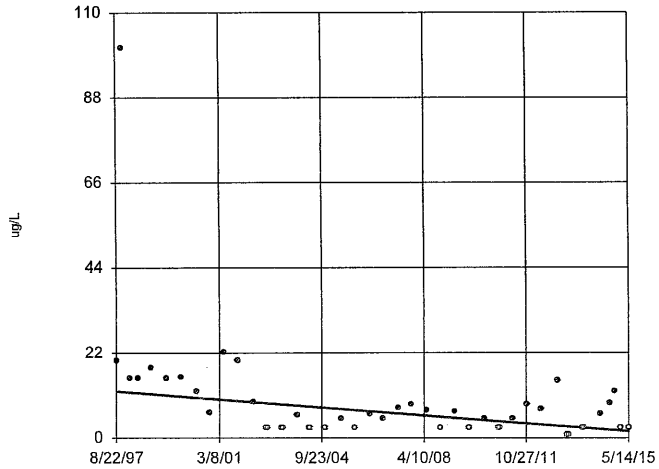
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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 = -0.5884 units per year.

Mann-Kendall statistic = -264
critical = -201

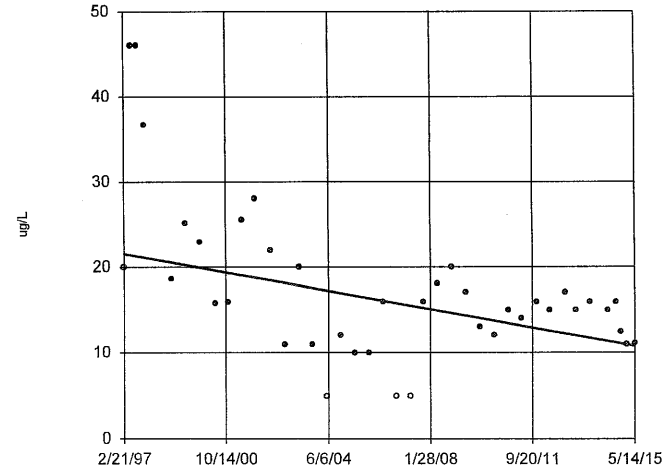
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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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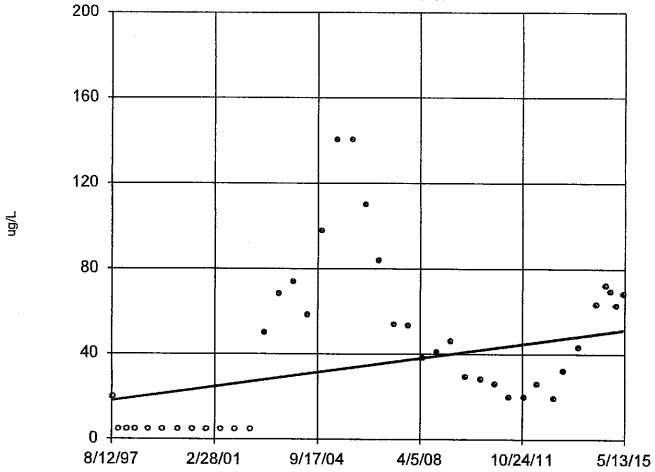
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1.87 units per year.

Mann-Kendall statistic = 232 critical = 201

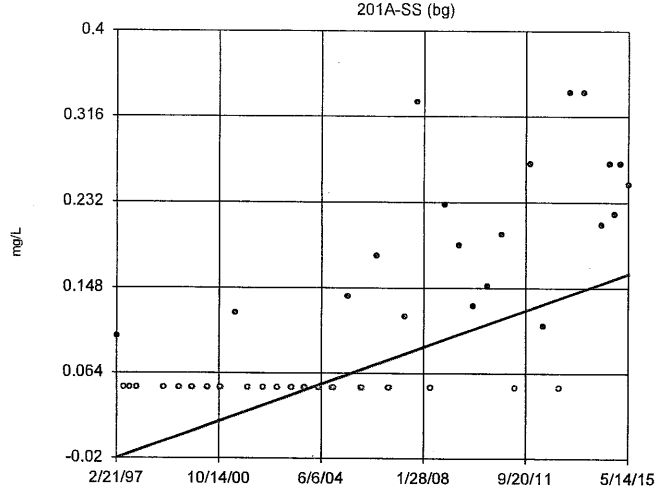
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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 = 0.01 units per year.

Mann-Kendall statistic = 364 critical = 201

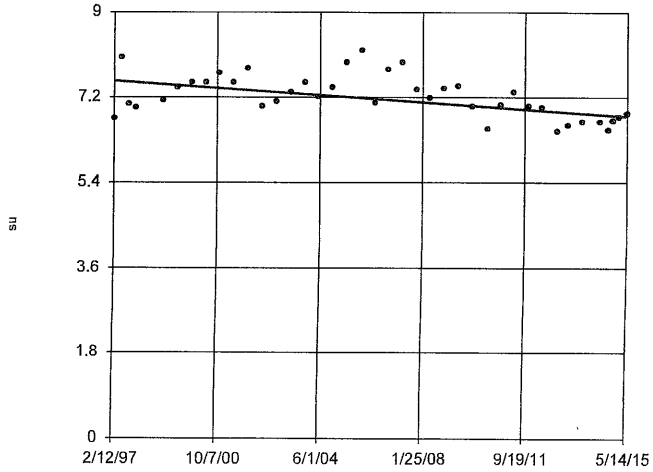
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -0.0405 units per year.

Mann-Kendall statistic = -277 critical = -201

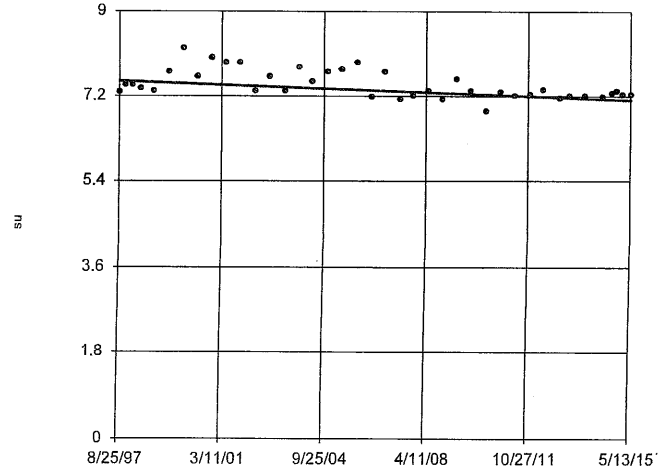
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.02251 units per year.

Mann-Kendall statistic = -283 critical = -201

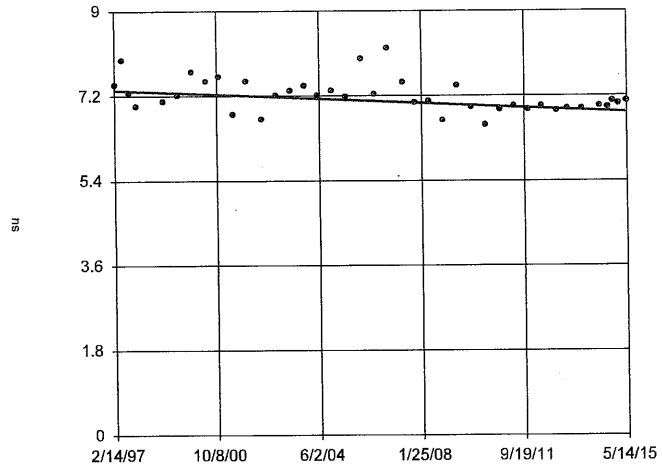
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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).

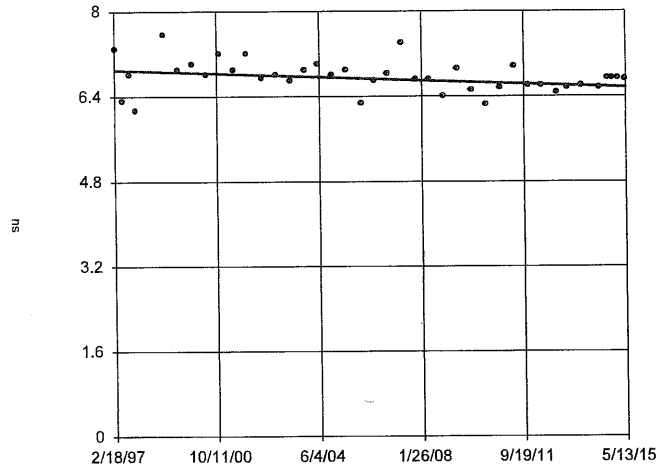
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

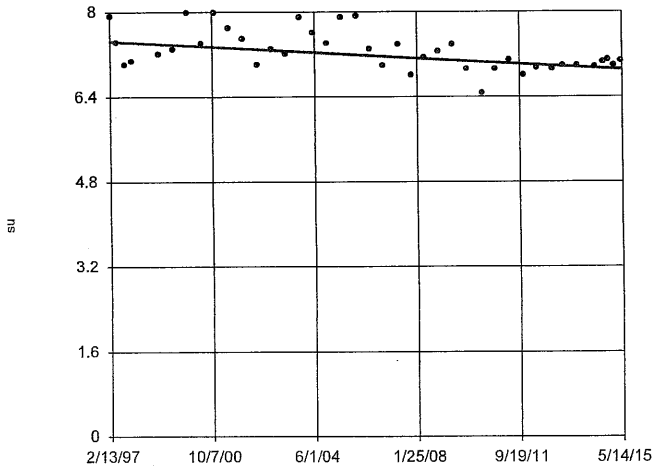
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

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).

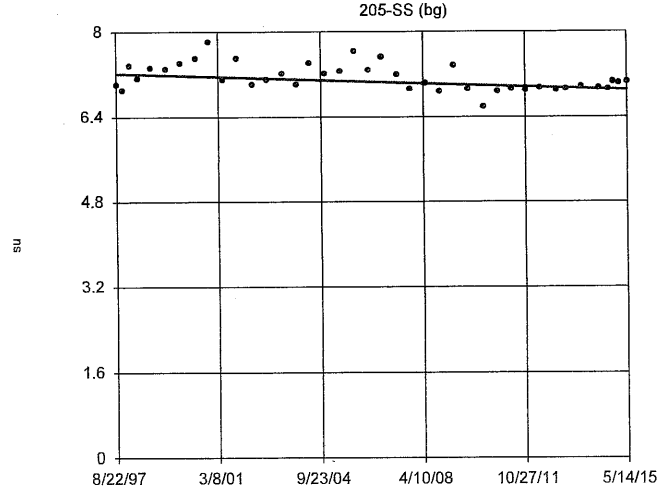
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

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).

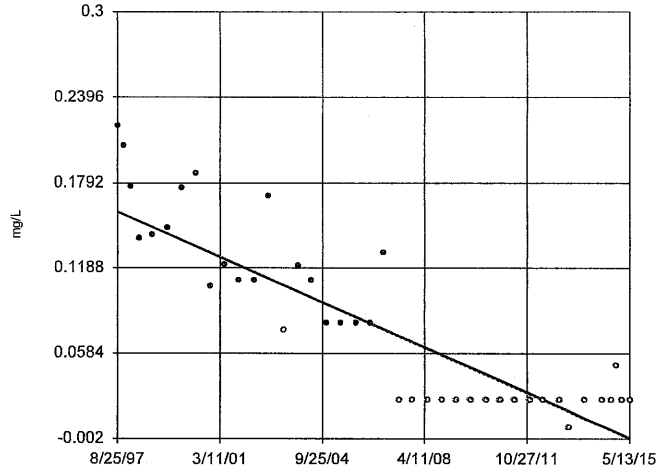
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM

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

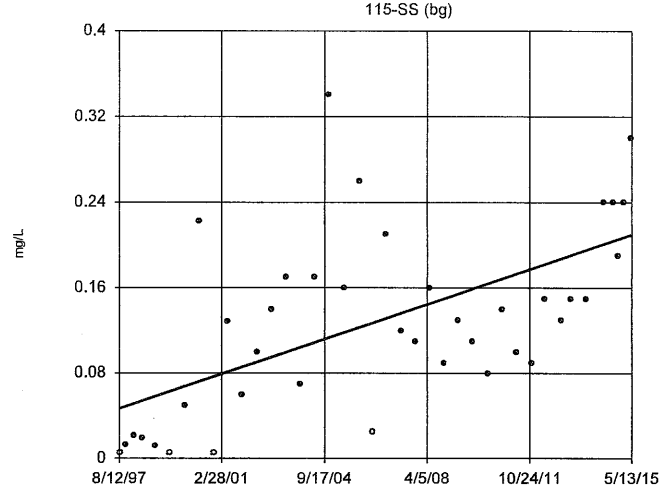
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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 = 0.009173 units per year.

Mann-Kendall statistic = 344
critical = 201

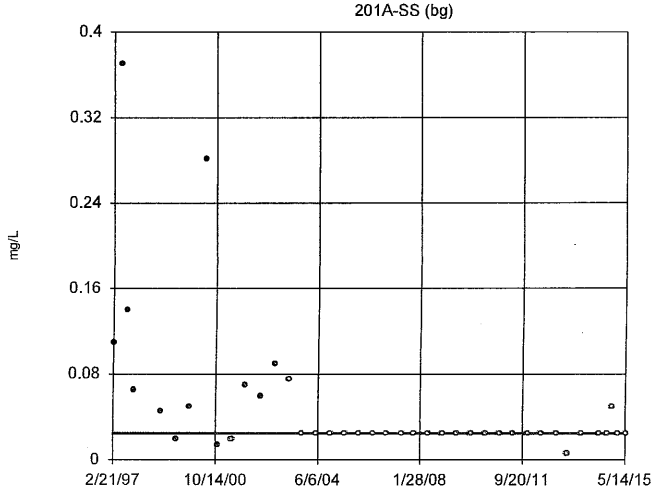
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

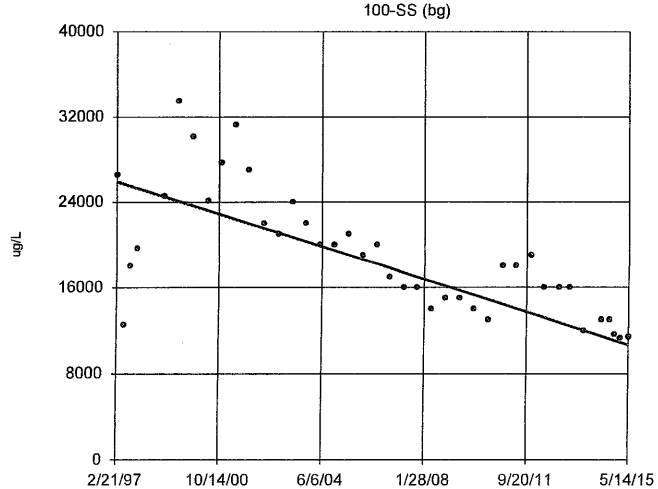
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

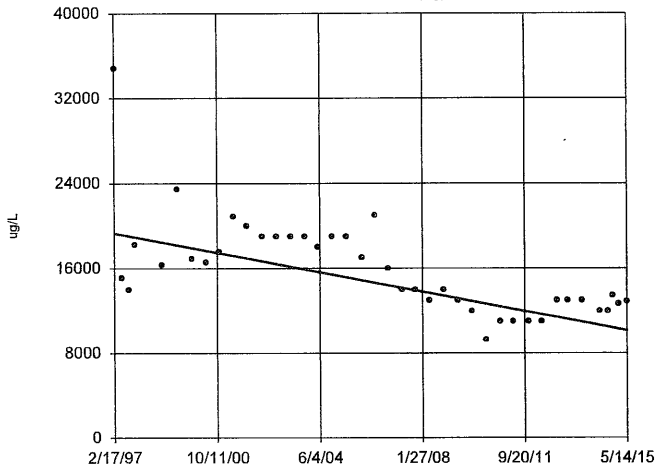
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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).

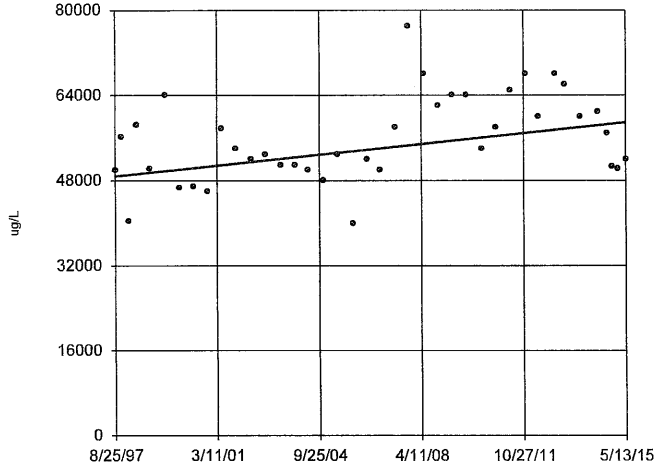
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

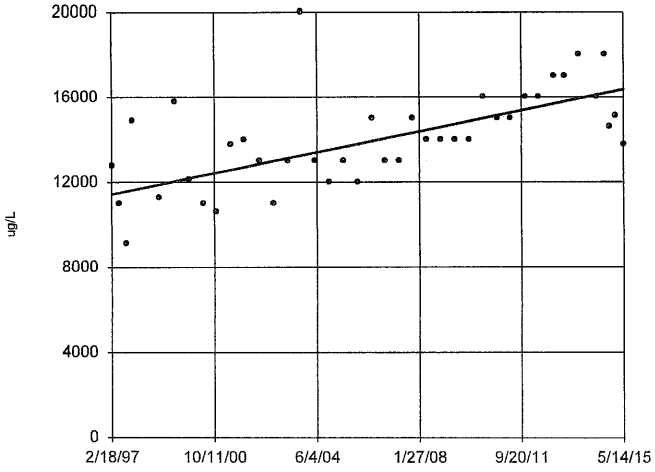
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

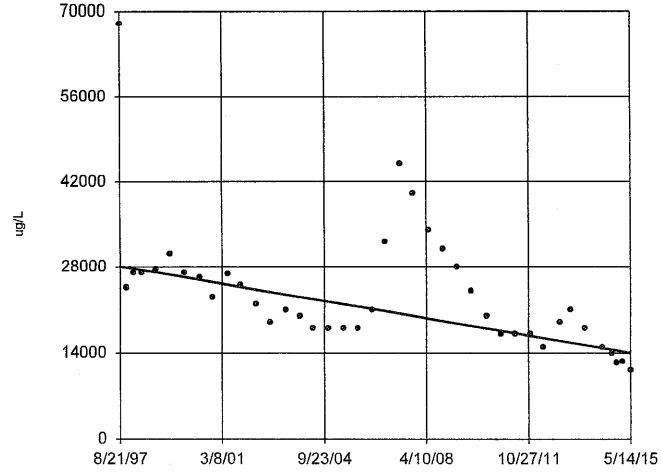
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

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).

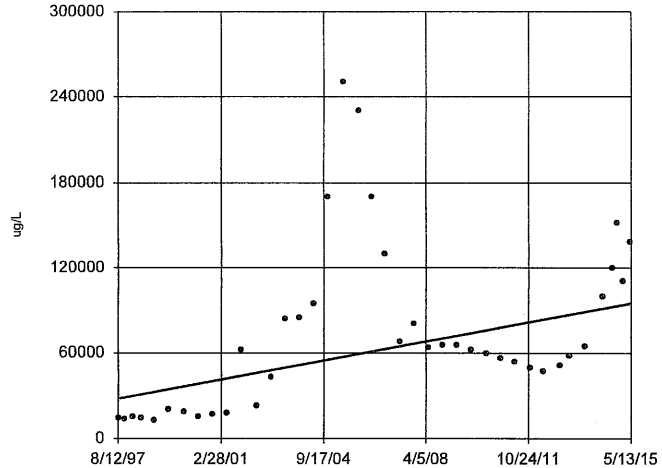
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

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).

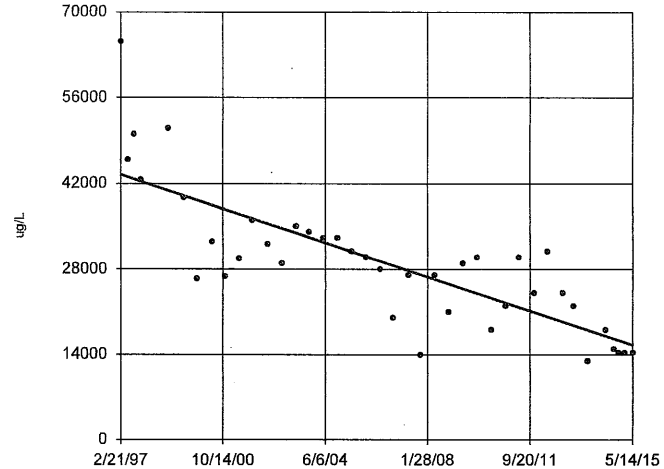
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

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).

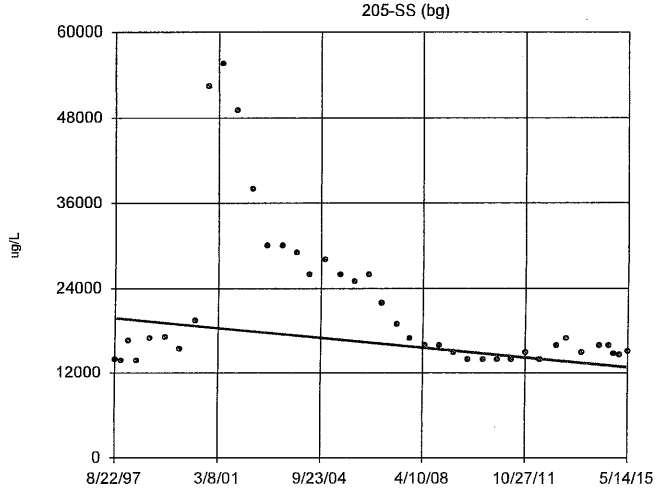
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM

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

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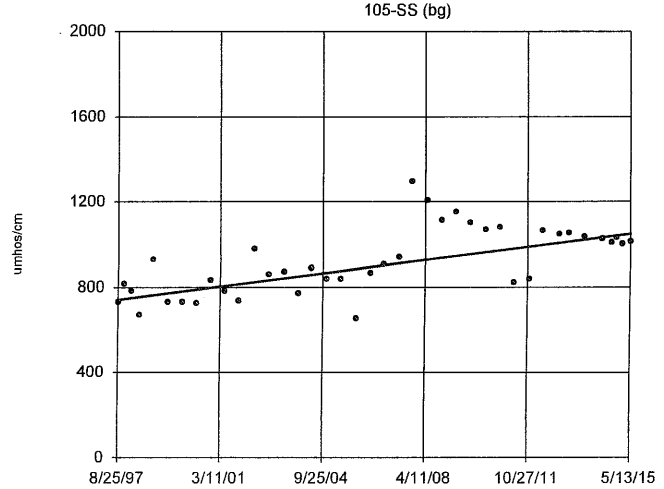
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 17.15 units per year.

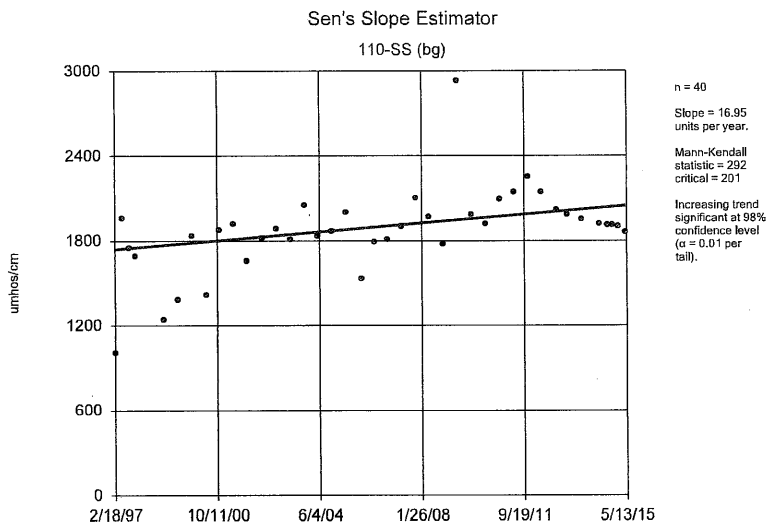
Mann-Kendall statistic = 333 critical = 201

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

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

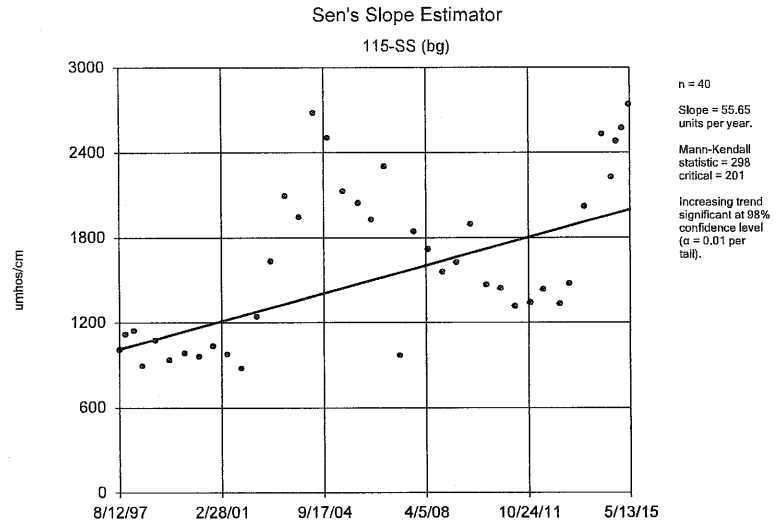
Bridgeton LF Client: RSI Data: BRIDGETON

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



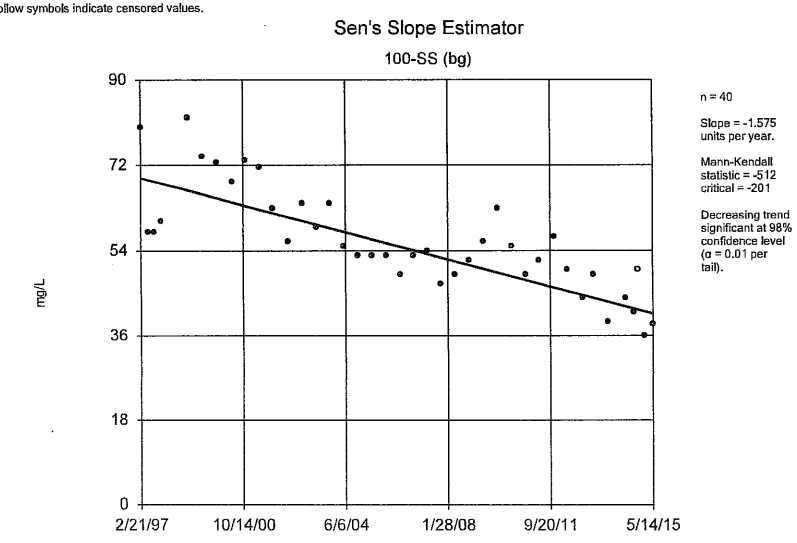
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



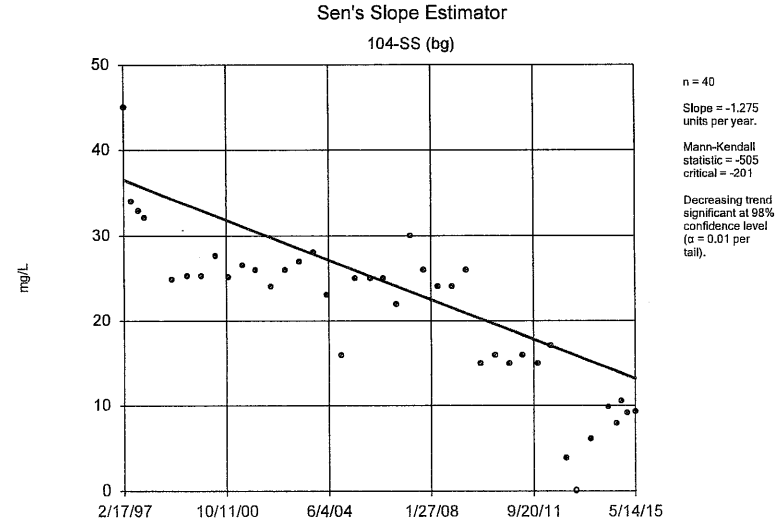
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



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.

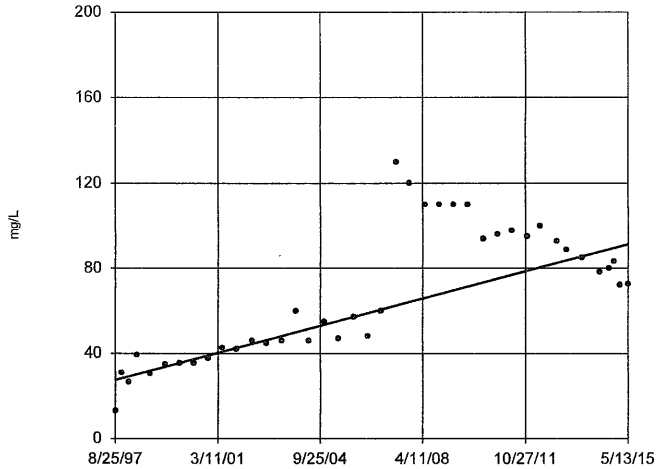


Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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).

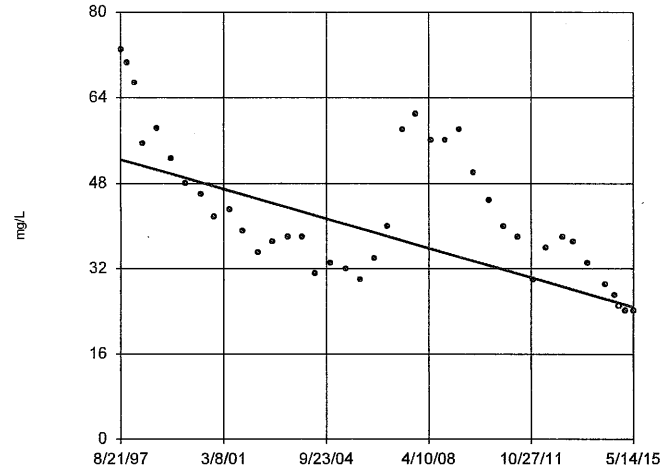
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

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).

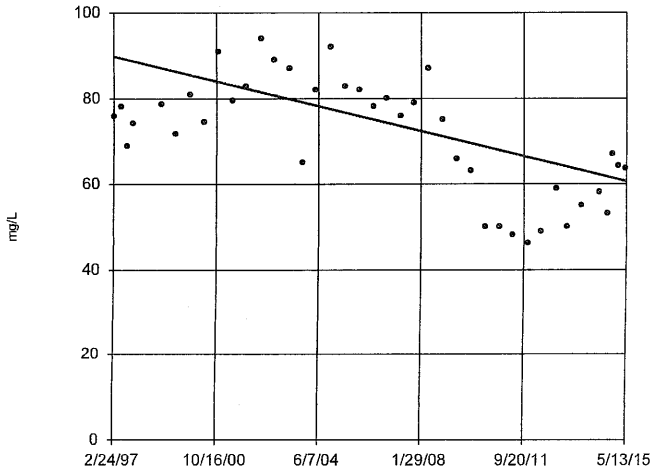
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

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).

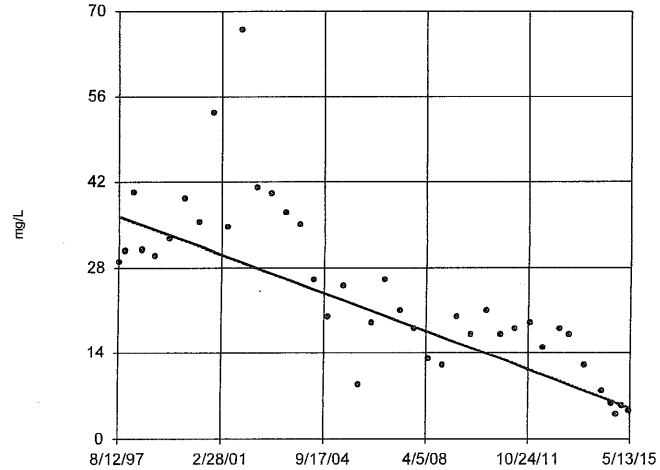
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

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).

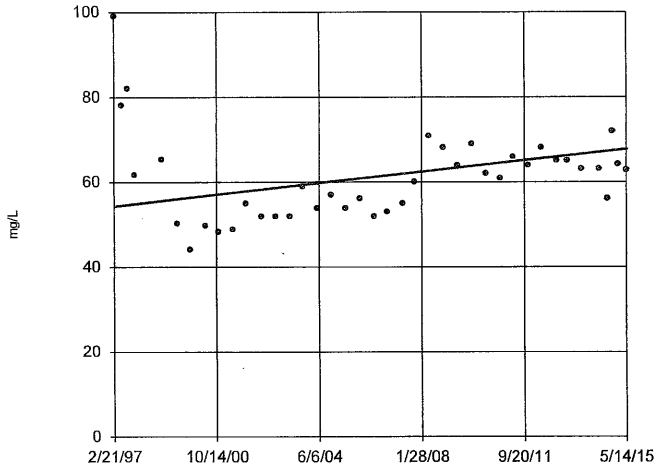
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

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).

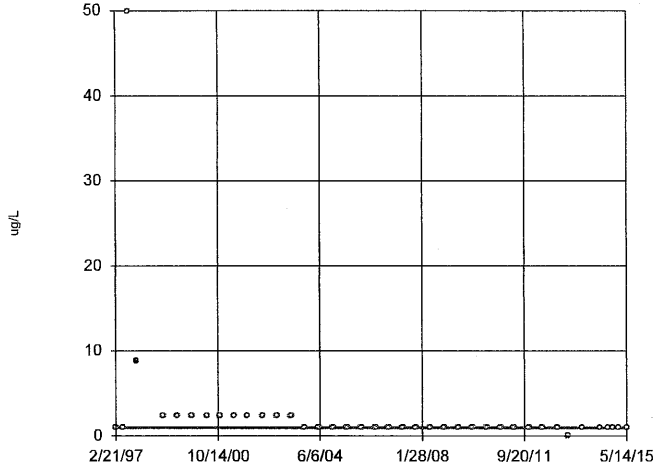
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:06 PM

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).

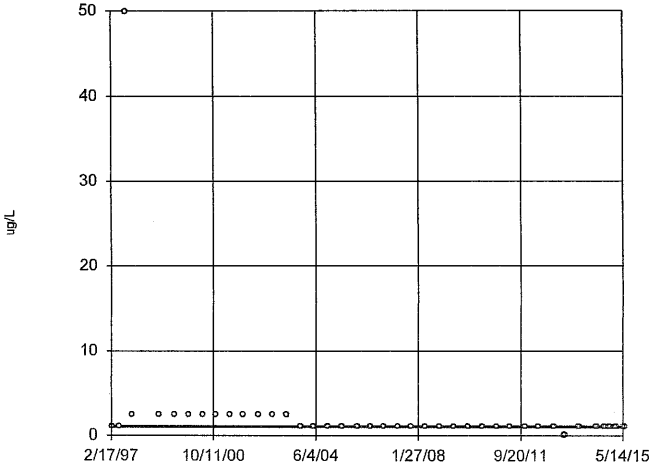
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

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).

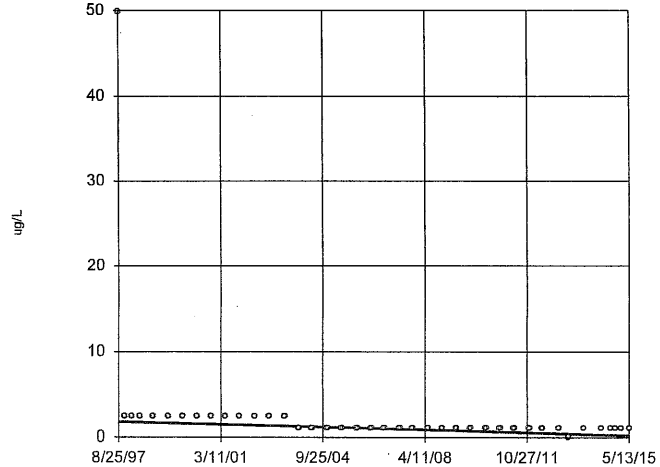
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

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).

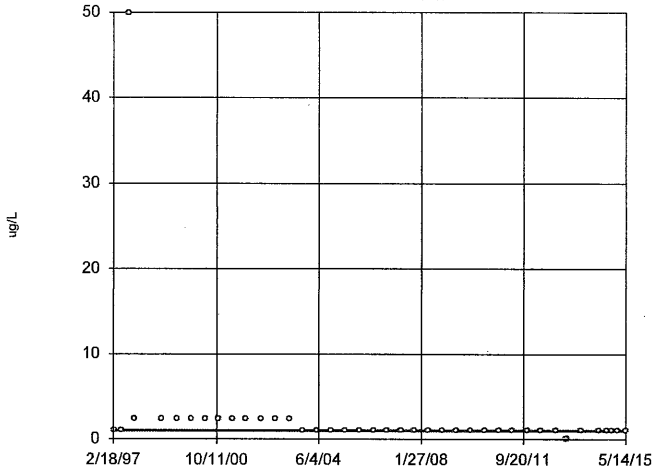
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM

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

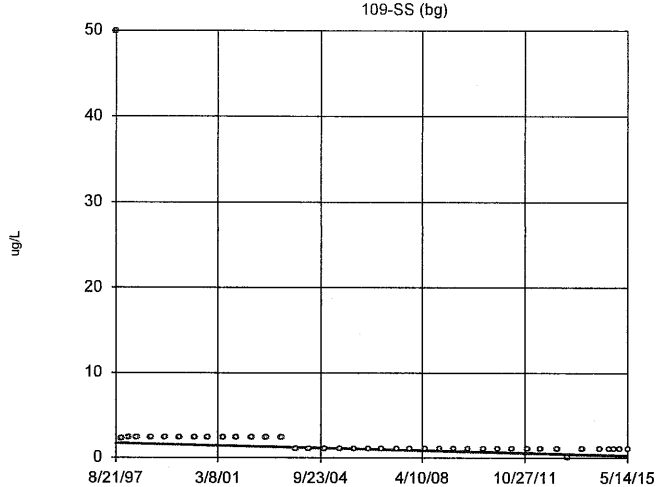
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

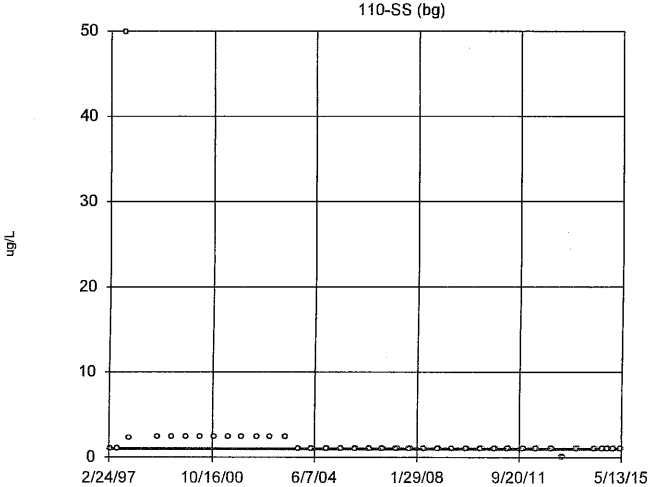
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

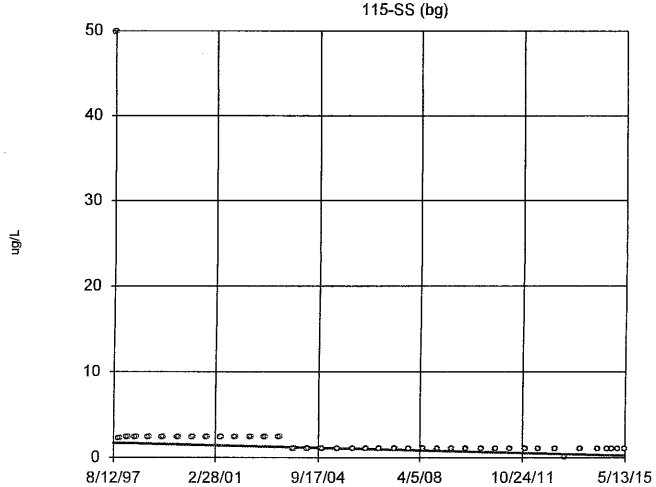
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

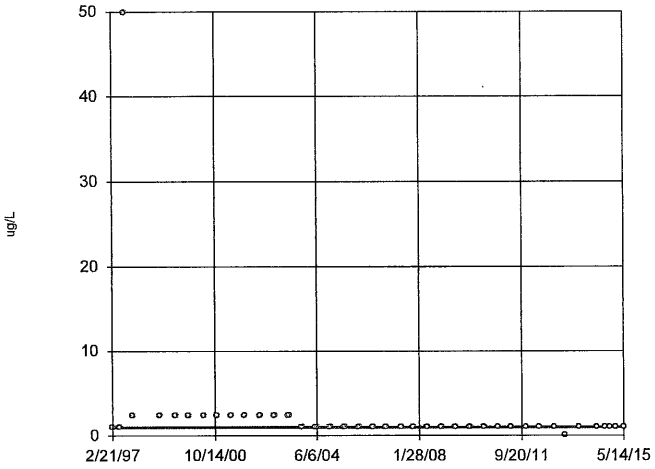
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

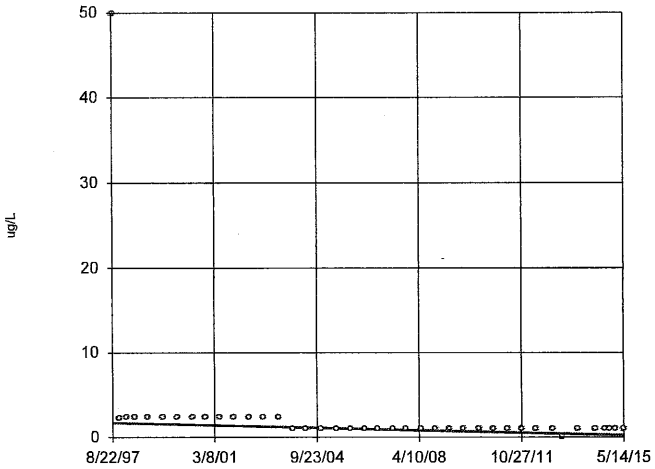
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

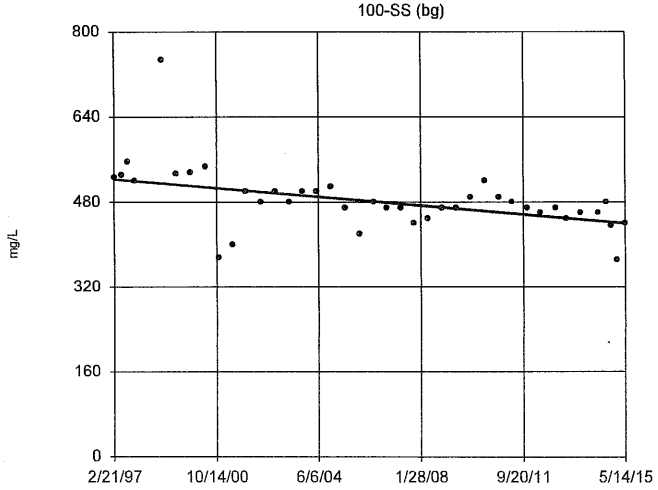
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

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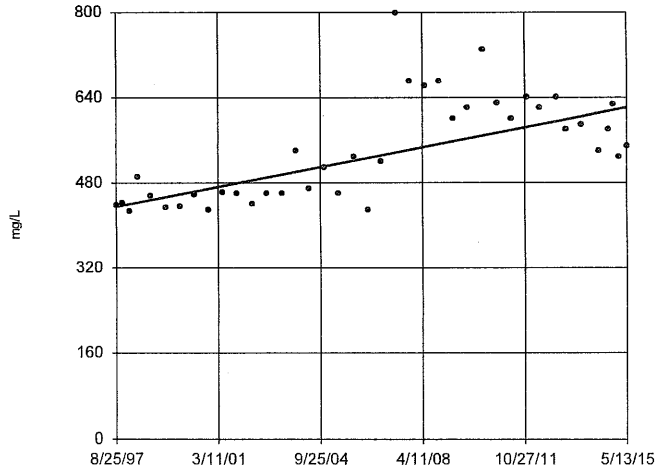
Sen's Slope Estimator

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

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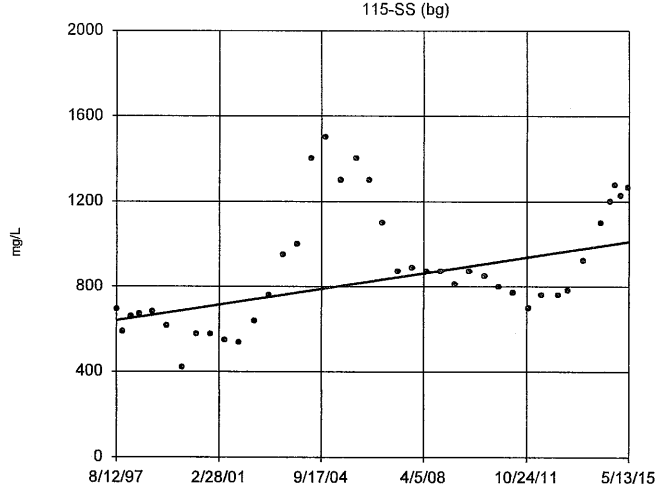
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 20.92 units per year.

Mann-Kendall statistic = 246 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

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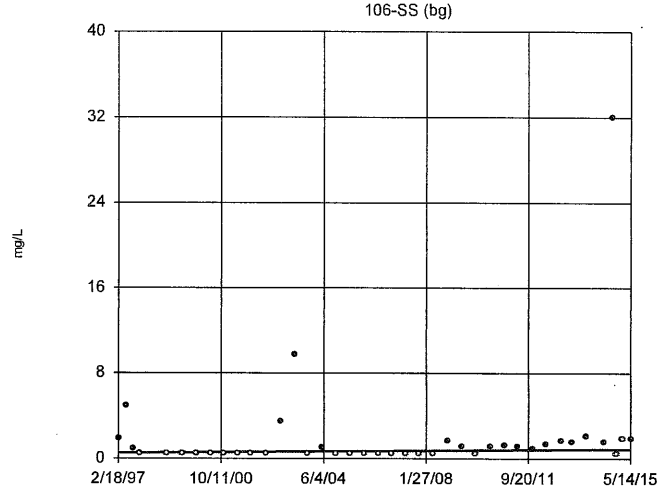
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 0.02137 units per year.

Mann-Kendall statistic = 213 critical = 201

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

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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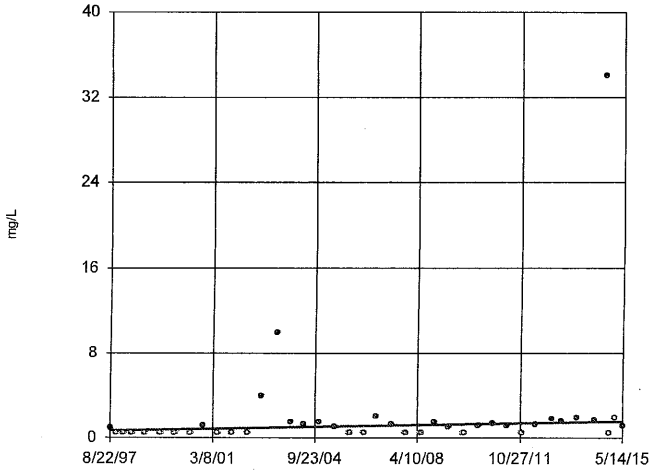
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.04989 units per year.

Mann-Kendall statistic = 246 critical = 201

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

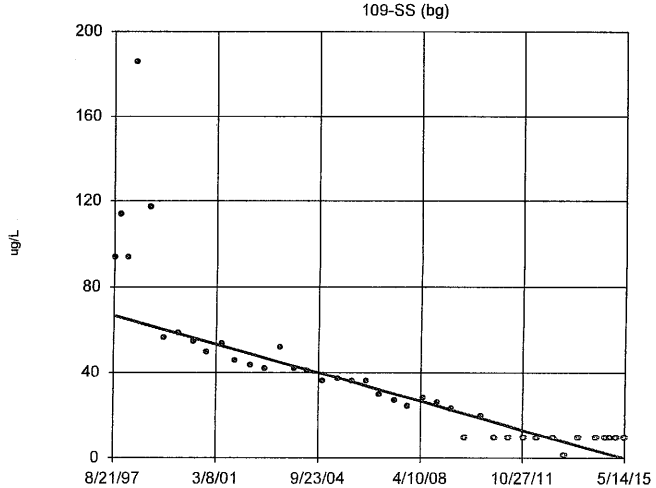
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:06 PM

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 = -3.762 units per year.

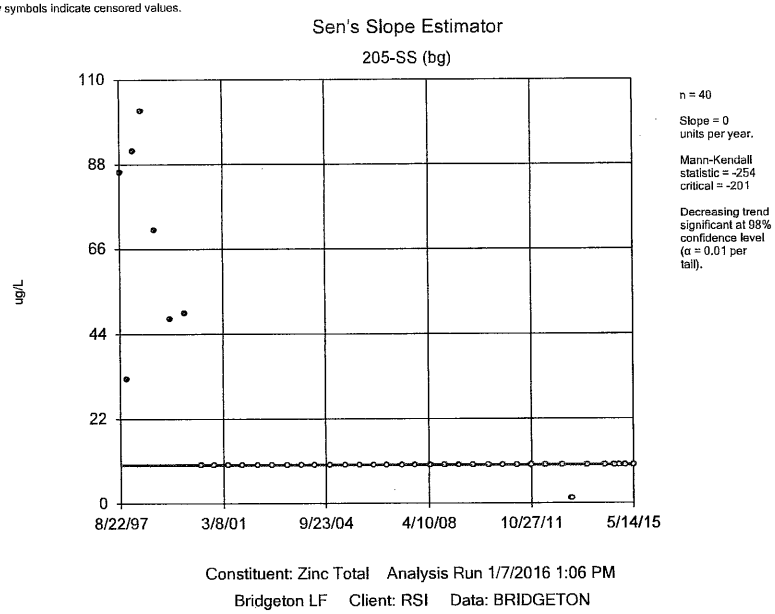
Mann-Kendall statistic = -661 critical = -201

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

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

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 12/30/2017, 9:46 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	11/7/2017	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	11/13/2017	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	11/13/2017	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	11/6/2017	0.22	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	11/6/2017	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)	201A-SS	0.32	n/a	11/7/2017	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	11/7/2017	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	11/7/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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	11/6/2017	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)	115-SS	5.0	n/a	11/13/2017	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	5.0	n/a	11/7/2017	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	5.0	n/a	11/7/2017	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	11/7/2017	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	11/13/2017	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	11/13/2017	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	11/6/2017	2.5ND	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	11/6/2017	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)	115-SS	19	n/a	11/13/2017	5.8	No	40	n/a	n/a	55	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	201A-SS	6.5	n/a	11/7/2017	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	11/7/2017	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	11/7/2017	67.4	No	40	319653	75641	0	None	x^3	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	104-SS	110	n/a	11/13/2017	103	No	39	8286	1849	0	None	x^2	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	105-SS	260	n/a	11/13/2017	170	No	40	148.5	42.94	0	None	No	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	**106-SS**	**170**	**n/a**	**11/6/2017**	**195**	**Yes**	**39**	**5.223**	**0.1277**	**0**	**None**	**x^(1/3)**	**0.00009683**	**Param Intra 1 of 2**
Barium Total (ug/L)	109-SS	76	n/a	11/6/2017	59.2	No	40	4156	605.3	0	None	x^2	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	115-SS	520	n/a	11/13/2017	488	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Barium Total (ug/L)	201A-SS	150	n/a	11/7/2017	129	No	39	111.8	14.77	0	None	No	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	205-SS	180	n/a	11/7/2017	143	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Beryllium Total (ug/L)	100-SS	2.0	n/a	11/7/2017	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	2.0	n/a	11/6/2017	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	2.0	n/a	11/6/2017	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	2.0	n/a	11/7/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	105-SS	100	n/a	11/13/2017	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	100	n/a	11/6/2017	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	11/6/2017	180	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Boron Total (ug/L)	201A-SS	100	n/a	11/7/2017	50ND	No	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	11/7/2017	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	11/7/2017	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	0.20	n/a	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	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)	115-SS	2.5	n/a	11/13/2017	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	11/7/2017	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	11/7/2017	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	11/7/2017	96000	No	39	11.46	0.04697	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	104-SS	97000	n/a	11/13/2017	81200	No	40	6.8e9	1.0e9	0	None	x^2	0.00009683	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 9:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium Total (ug/L)	109-SS	96000	n/a	11/6/2017	94000	No	39	4.0e29	1.4e29	0	None	x^6	0.00009683	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SS	21	n/a	11/7/2017	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	11/13/2017	16.5	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	11/13/2017	10.4	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	11/6/2017	21.4	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	11/6/2017	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)	115-SS	180	n/a	11/13/2017	35	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	11/7/2017	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	11/7/2017	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	11/7/2017	4	No	40	1.706	0.3034	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Chloride (mg/L)	109-SS	17	n/a	11/6/2017	4.2	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chromium Total (ug/L)	100-SS	21	n/a	11/7/2017	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	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	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)	115-SS	5.5	n/a	11/13/2017	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	11/7/2017	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	11/7/2017	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	5.0	n/a	11/7/2017	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-SS	5.0	n/a	11/13/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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	5.0	n/a	11/6/2017	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)	115-SS	62	n/a	11/13/2017	27.2	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	5.0	n/a	11/7/2017	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	11/7/2017	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	11/7/2017	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	5.0	n/a	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	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)	115-SS	21	n/a	11/13/2017	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	11/7/2017	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	11/7/2017	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	11/7/2017	0.54	No	25	0.3625	0.1685	0	None	x^3	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	104-SS	0.97	n/a	11/13/2017	0.69	No	24	0.4327	0.1674	0	None	x^3	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	105-SS	1.1	n/a	11/13/2017	0.56	No	26	0.6903	0.1403	0	None	No	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	106-SS	2.4	n/a	11/6/2017	1.6	No	26	0.6576	0.08543	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	115-SS	2.7	n/a	11/13/2017	0.38	No	26	0.9509	0.1594	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	201A-SS	0.65	n/a	11/7/2017	0.3	No	25	0.4567	0.06897	0	None	No	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	205-SS	0.6	n/a	11/7/2017	0.35	No	25	-0.909	0.1421	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	100-SS	510	n/a	11/7/2017	448	No	39	2.0e13	5.2e12	0	None	x^5	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	104-SS	460	n/a	11/13/2017	403	No	39	2.7e10	7.1e9	0	None	x^4	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	109-SS	740	n/a	11/6/2017	442	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	100-SS	2000	n/a	11/7/2017	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	8500	n/a	11/13/2017	155	No	40	10.96	3.646	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	105-SS	12000	n/a	11/13/2017	1480	No	40	7.052	0.9184	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	109-SS	5200	n/a	11/6/2017	25ND	No	40	5.028	1.361	5	None	ln(x)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	201A-SS	5700	n/a	11/7/2017	25ND	No	40	5.9	1.058	0	None	ln(x)	0.00009683	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 9:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Iron Total (ug/L)	205-SS	5300	n/a	11/7/2017	52.6	No	40	6.53	0.7894	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Lead Total (ug/L)	100-SS	2700	n/a	11/7/2017	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	11/13/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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	11/6/2017	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)	115-SS	5.0	n/a	11/13/2017	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	11/7/2017	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	11/7/2017	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	11/7/2017	50500	No	40	1.5e14	2.5e13	0	None	x^3	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	109-SS	57000	n/a	11/6/2017	50400	No	39	2.0e28	5.9e27	0	None	x^6	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	100-SS	75	n/a	11/7/2017	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	11/13/2017	25.7	No	39	5.486	1.746	2.564	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	105-SS	67	n/a	11/13/2017	62.1	No	39	2.59	0.5683	2.564	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	106-SS	52	n/a	11/6/2017	16.3	No	38	4.249	1.13	2.632	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	109-SS	120	n/a	11/6/2017	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)	201A-SS	1100	n/a	11/7/2017	2.5ND	No	40	4.69	0.8887	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	205-SS	100	n/a	11/7/2017	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	0.20	n/a	11/7/2017	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	11/13/2017	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	0.20	n/a	11/13/2017	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	0.20	n/a	11/6/2017	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	0.20	n/a	11/6/2017	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	0.20	n/a	11/13/2017	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	11/7/2017	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	0.20	n/a	11/7/2017	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	55	n/a	11/7/2017	10.1	No	40	2.743	0.491	10	None	ln(x)	0.00009683	Param Intra 1 of 2
Nickel Total (ug/L)	104-SS	23	n/a	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	201A-SS	20	n/a	11/7/2017	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	11/7/2017	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	11/7/2017	0.05ND	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	11/13/2017	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	11/13/2017	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	11/6/2017	0.5ND	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	11/6/2017	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)	115-SS	5.0	n/a	11/13/2017	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)	205-SS	0.15	n/a	11/7/2017	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	11/7/2017	7.16	No	40	n/a	n/a	0	n/a	n/a	0.002305	NP Intra (normality) 1 of 2
pH [Field] (su)	109-SS	8	6.5	11/6/2017	7.05	No	39	1.973	0.04155	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	115-SS	7.6	6.1	11/13/2017	6.61	No	39	1.911	0.04272	0	None	ln(x)	0.00004842	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SS	0.21	n/a	11/7/2017	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	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	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)	201A-SS	0.37	n/a	11/7/2017	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	11/7/2017	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 9:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium Total (ug/L)	100-SS	5.0	n/a	11/7/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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	11/6/2017	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)	115-SS	50	n/a	11/13/2017	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	5.0	n/a	11/7/2017	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	5.0	n/a	11/7/2017	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	11/7/2017	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	11/13/2017	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	11/13/2017	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	11/6/2017	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	11/6/2017	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	11/13/2017	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	11/7/2017	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	11/7/2017	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	11/7/2017	9920	No	40	9.808	0.295	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	104-SS	27000	n/a	11/13/2017	14800	No	39	9.617	0.2257	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	109-SS	49000	n/a	11/6/2017	9640	No	39	9.978	0.3165	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	201A-SS	65000	n/a	11/7/2017	12300	No	40	30.24	3.85	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	205-SS	56000	n/a	11/7/2017	15700	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	11/7/2017	786	No	39	6.746	0.06655	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SS	930	n/a	11/13/2017	801	No	39	4.6e8	1.3e8	0	None	x^3	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**106-SS**	**950**	**n/a**	**11/6/2017**	**1071**	**Yes**	**39**	**4.6e11**	**1.3e11**	**0**	**None**	**x^4**	**0.00009683**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	109-SS	990	n/a	11/6/2017	811	No	37	824	63.94	0	None	No	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	201A-SS	970	n/a	11/7/2017	777	No	39	660296	108124	0	None	x^2	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	11/7/2017	886	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	100-SS	91	n/a	11/7/2017	34.4	No	40	4.009	0.1952	2.5	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	104-SS	45	n/a	11/13/2017	24.7	No	40	21.19	9.203	2.5	None	No	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	106-SS	66	n/a	11/6/2017	43	No	40	3.901	0.1104	2.5	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	109-SS	89	n/a	11/6/2017	22.1	No	40	3.71	0.2988	2.5	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	115-SS	70	n/a	11/13/2017	4.6	No	40	4.715	1.41	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	205-SS	73	n/a	11/7/2017	51.5	No	39	50.72	8.593	0	None	No	0.00009683	Param Intra 1 of 2
Thallium Total (ug/L)	100-SS	50	n/a	11/7/2017	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	2.0	n/a	11/13/2017	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	2.0	n/a	11/13/2017	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	2.0	n/a	11/6/2017	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	2.0	n/a	11/6/2017	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	2.0	n/a	11/13/2017	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	2.0	n/a	11/7/2017	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	2.0	n/a	11/7/2017	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	11/7/2017	408	No	39	1.1e8	2.8e7	0	None	x^3	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	11/13/2017	389	No	38	6.039	0.07516	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**106-SS**	**530**	**n/a**	**11/6/2017**	**757**	**Yes**	**39**	**21.4**	**0.6626**	**0**	**None**	**sqrt(x)**	**0.00009683**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	109-SS	570	n/a	11/6/2017	406	No	40	6.134	0.07956	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	201A-SS	560	n/a	11/7/2017	441	No	39	226671	33845	0	None	x^2	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	205-SS	580	n/a	11/7/2017	497	No	39	6.217	0.05445	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SS	31	n/a	11/7/2017	1.3	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	11/13/2017	20ND	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	11/13/2017	3.8	No	40	n/a	n/a	17.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 9:46 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Organic Carbon [TOC] (mg/L)	109-SS	31	n/a	11/6/2017	1.7	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)	115-SS	55	n/a	11/13/2017	12.1	No	40	1.813	0.7701	22.5	Kaplan-Meier	x^(1/3)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	201A-SS	33	n/a	11/7/2017	1.4	No	40	n/a	n/a	50	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SS	10	n/a	11/7/2017	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	10	n/a	11/13/2017	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	10	n/a	11/13/2017	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	10	n/a	11/6/2017	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	10	n/a	11/6/2017	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	115-SS	14	n/a	11/13/2017	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	10	n/a	11/7/2017	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	11/7/2017	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	11/7/2017	10ND	No	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	11/13/2017	10ND	No	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	11/13/2017	10ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	106-SS	40	n/a	11/6/2017	10ND	No	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	11/6/2017	10ND	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Zinc Total (ug/L)	115-SS	68	n/a	11/13/2017	10ND	No	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	11/7/2017	10ND	No	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	11/7/2017	10ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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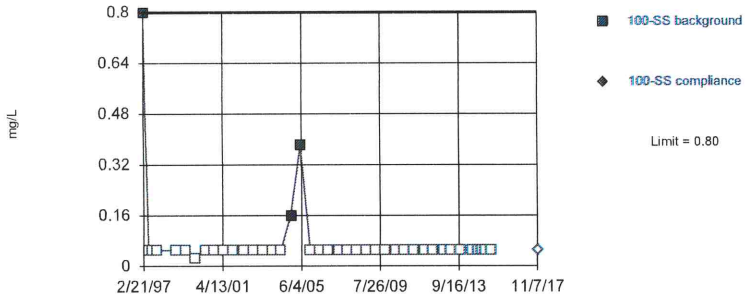
Hollow symbols indicate censored values.

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.

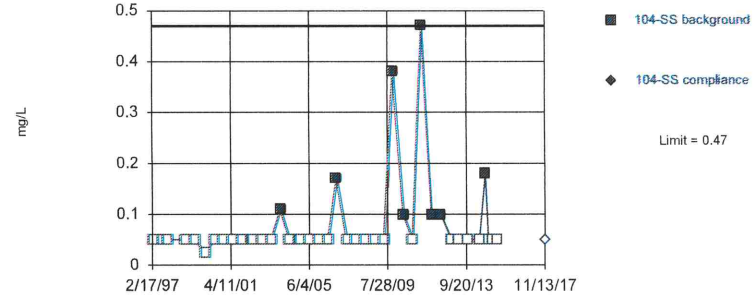
Constituent: Ammonia as N Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Ammonia as N Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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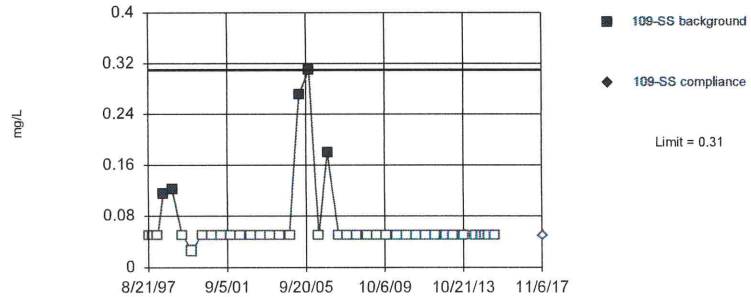
Hollow symbols indicate censored values.

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 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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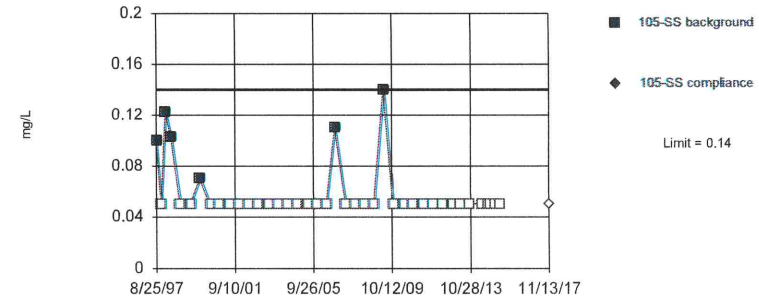
Hollow symbols indicate censored values.

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 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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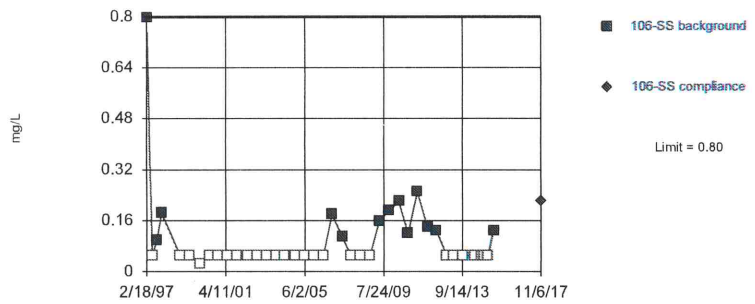
Hollow symbols indicate censored values.

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 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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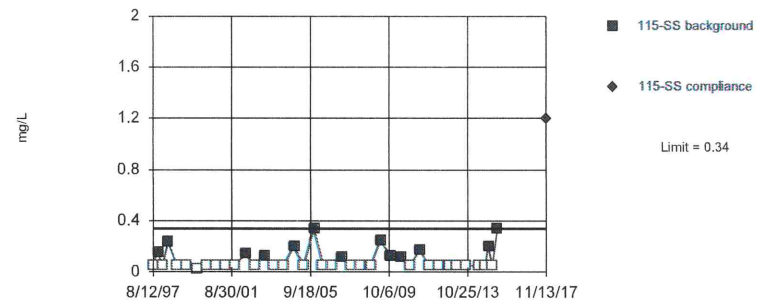
Hollow symbols indicate censored values.

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. 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 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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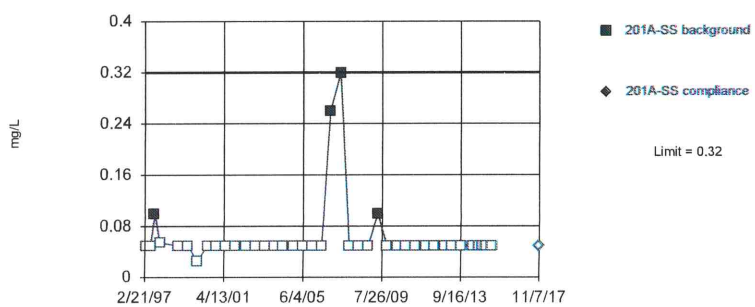
Hollow symbols indicate censored values.

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. 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 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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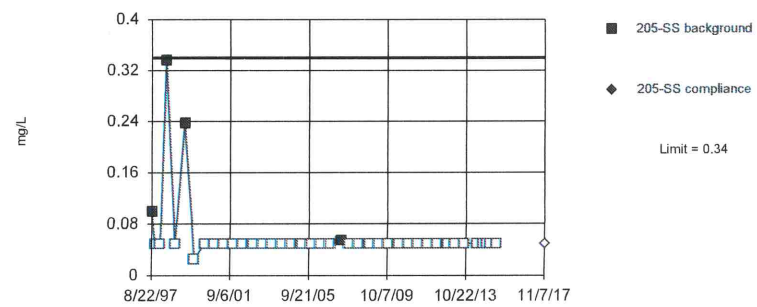
Hollow symbols indicate censored values.

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. 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 12/30/2017 9:39 AM

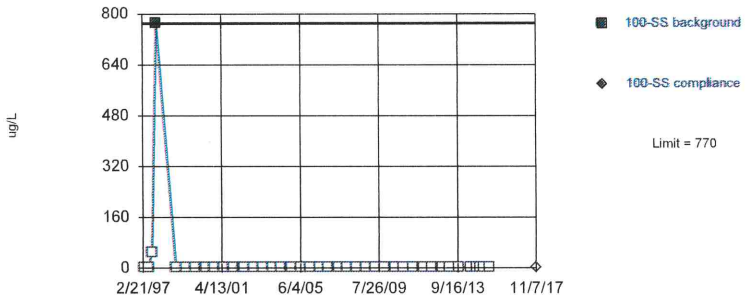
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

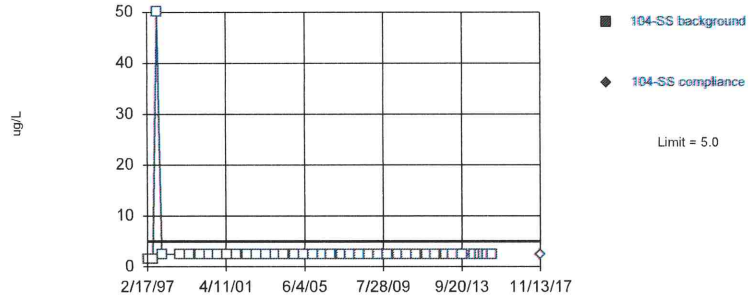
Constituent: Antimony Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

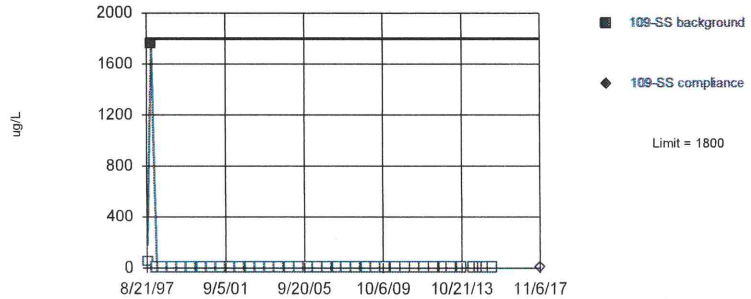
Constituent: Antimony Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

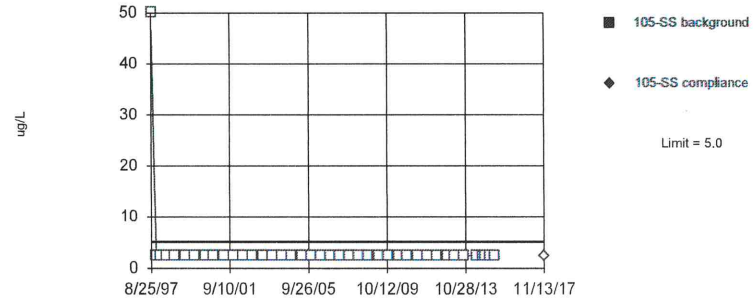
Constituent: Antimony Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

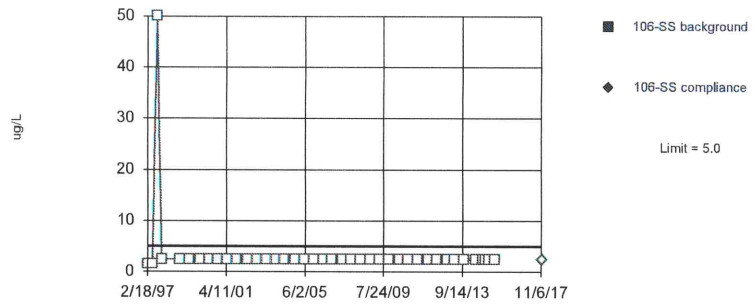
Constituent: Antimony Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

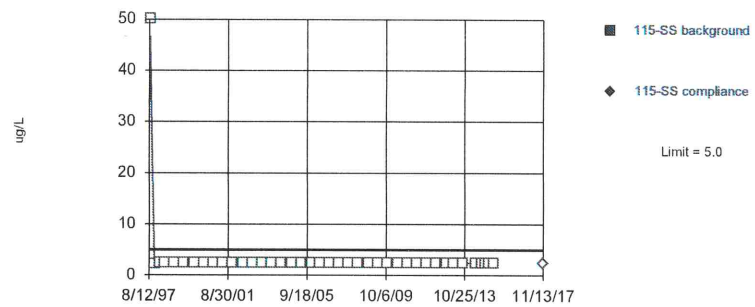
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

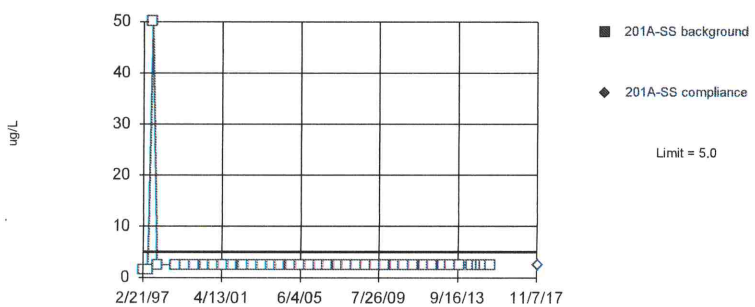
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

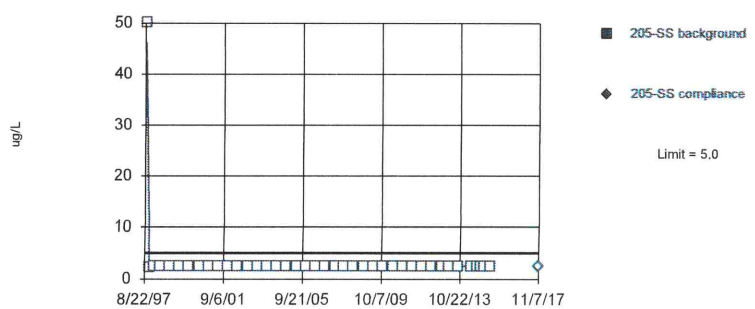
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

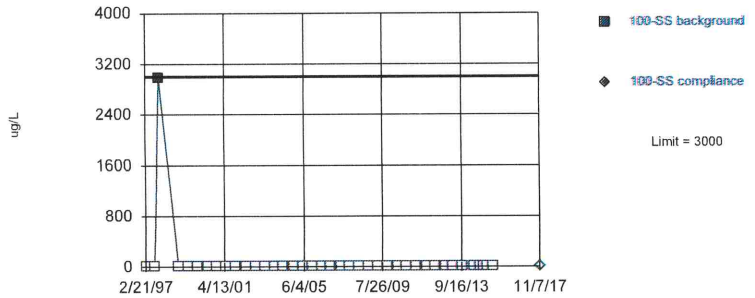
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

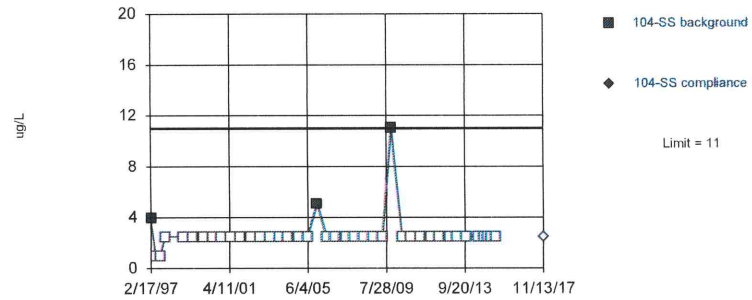
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

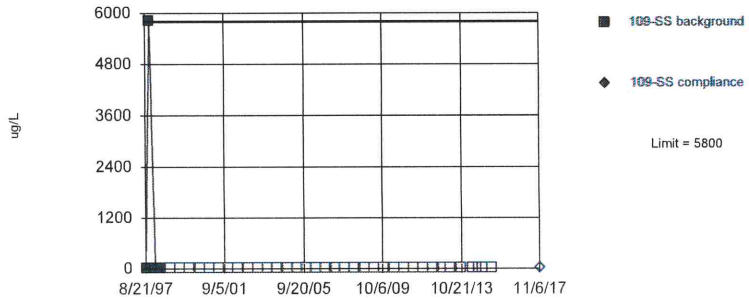
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

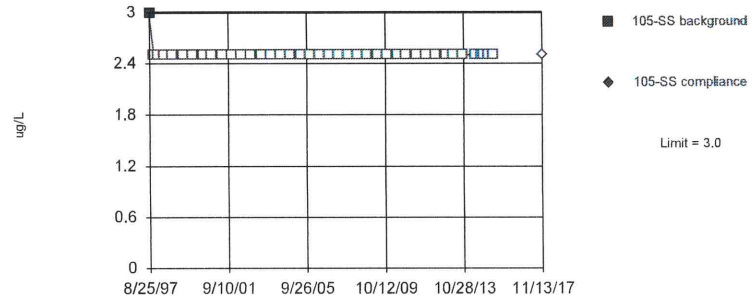
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

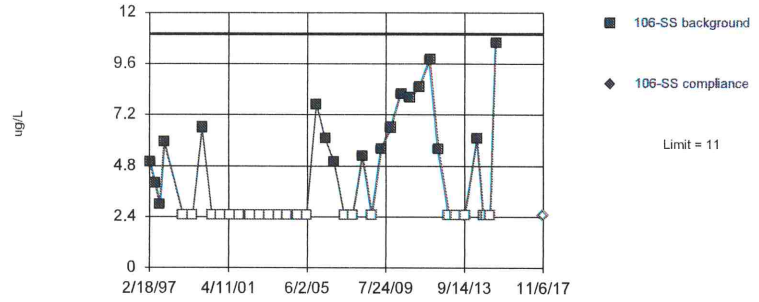
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

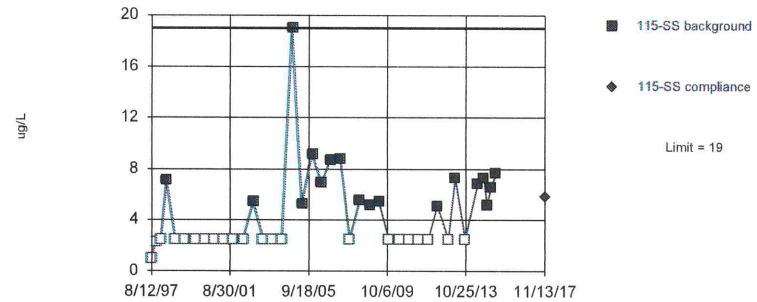
Constituent: Arsenic Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

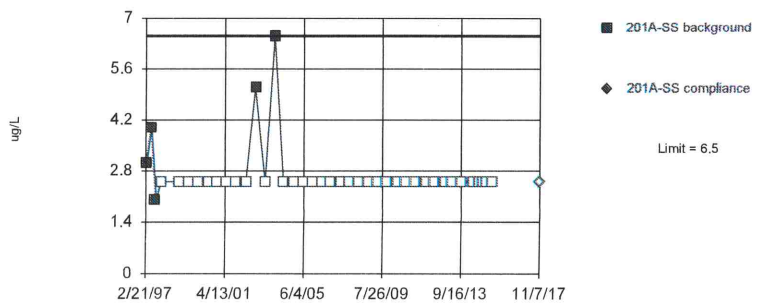
Constituent: Arsenic Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

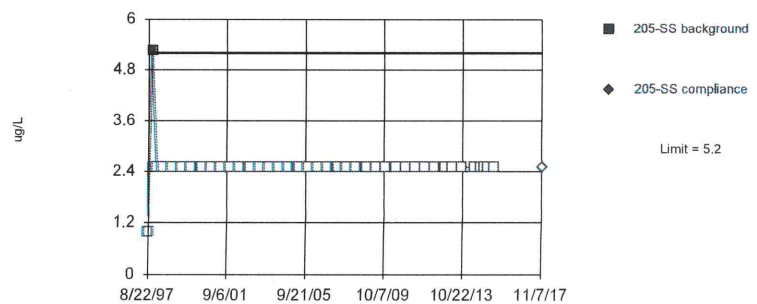
Constituent: Arsenic Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

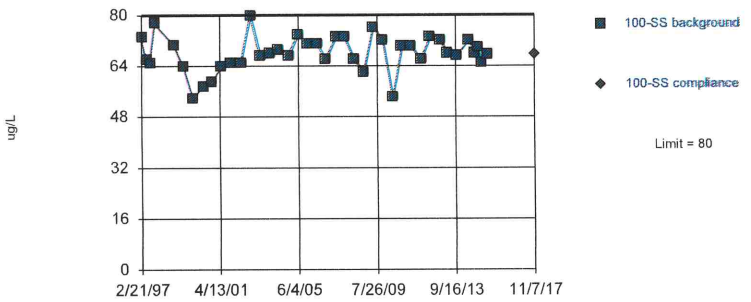
Constituent: Arsenic Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:39 AM

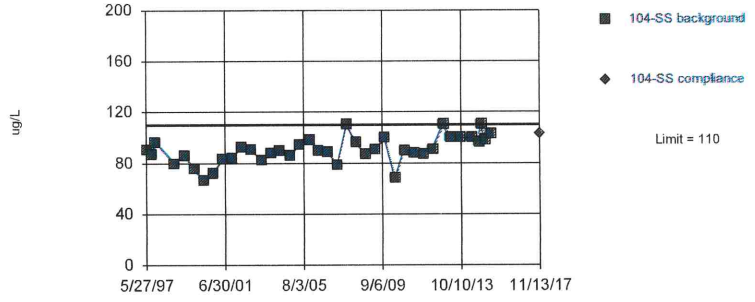
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 12/30/2017 9:39 AM

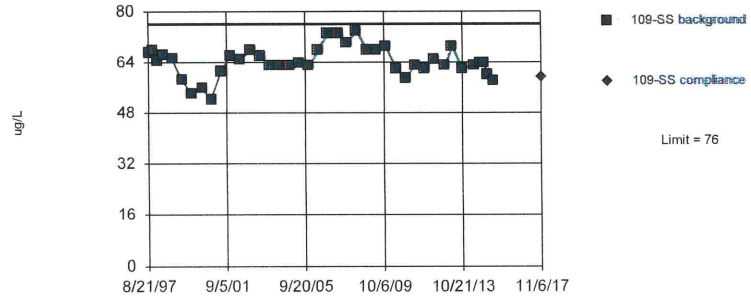
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:39 AM

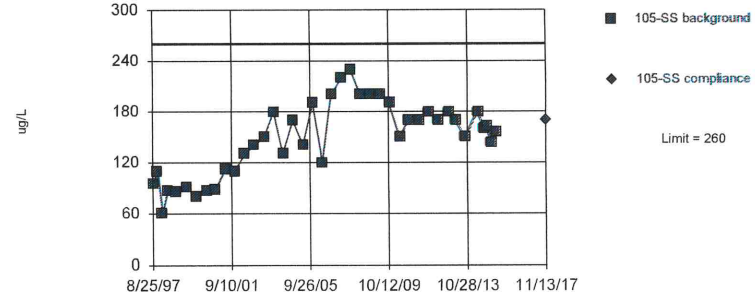
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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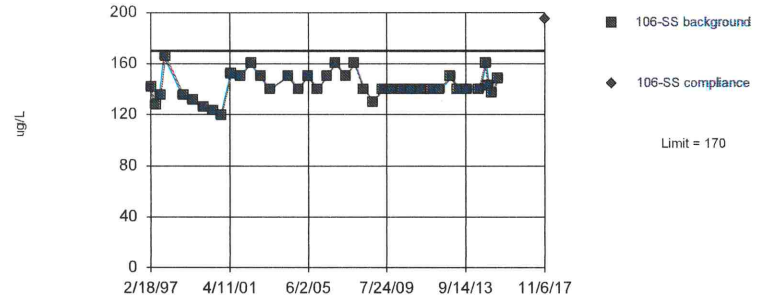
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.223, Std. Dev.=0.1277, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9465, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 78 (11/20/2003).

Constituent: Barium Total Analysis Run 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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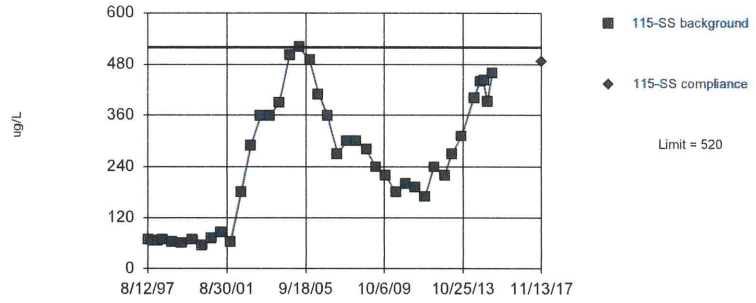
Within Limit

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 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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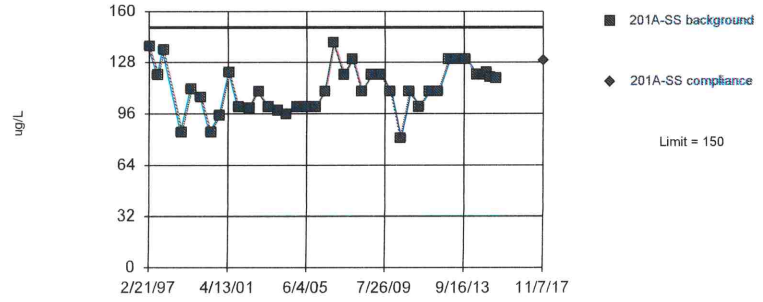
Within Limit

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 206 (5/27/1997).

Constituent: Barium Total Analysis Run 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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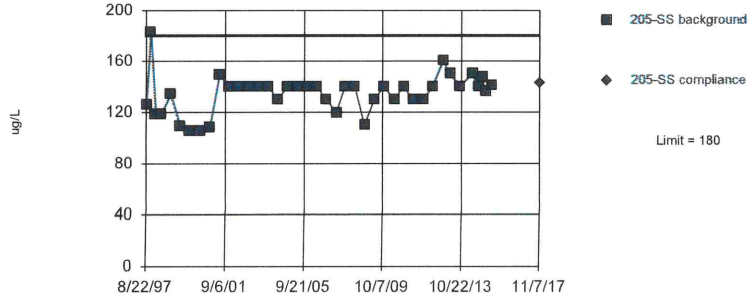
Within Limit

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 12/30/2017 9:39 AM

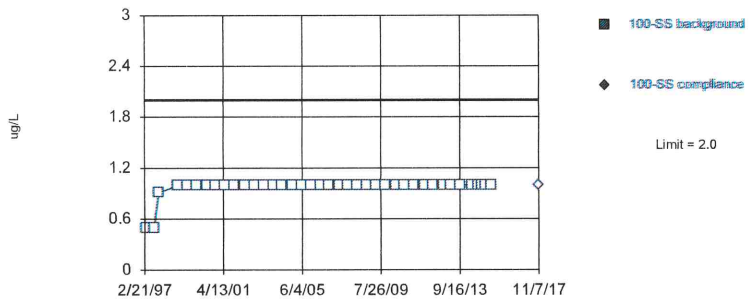
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

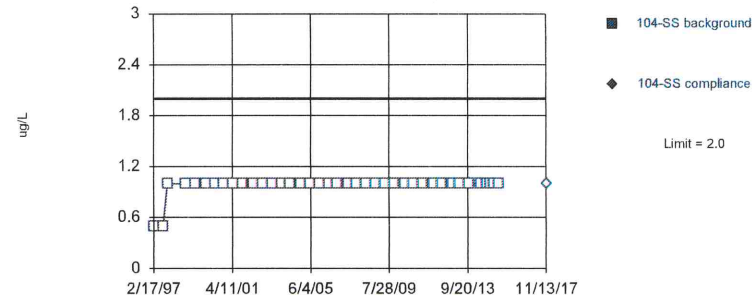
Constituent: Beryllium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

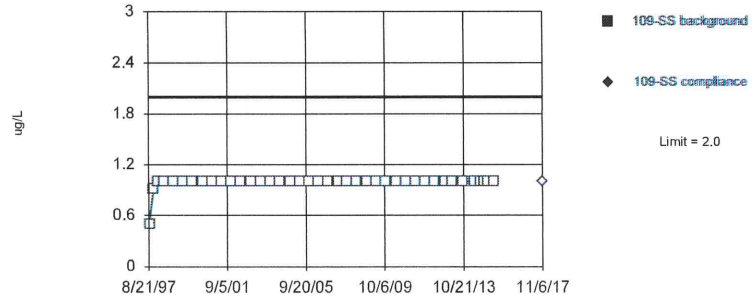
Constituent: Beryllium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

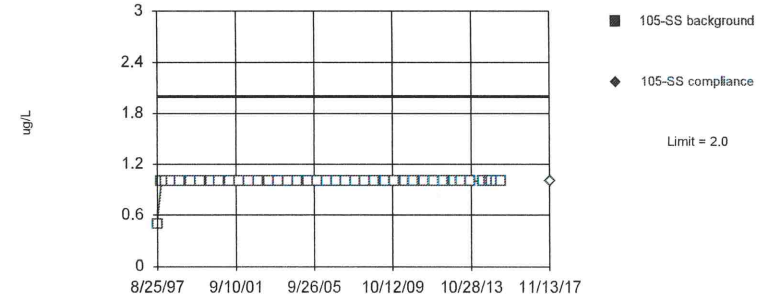
Constituent: Beryllium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

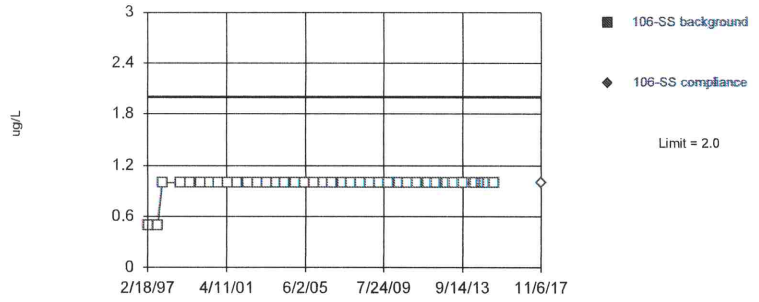
Constituent: Beryllium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

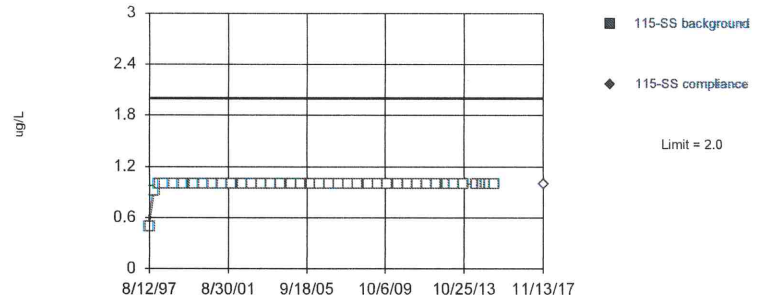
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

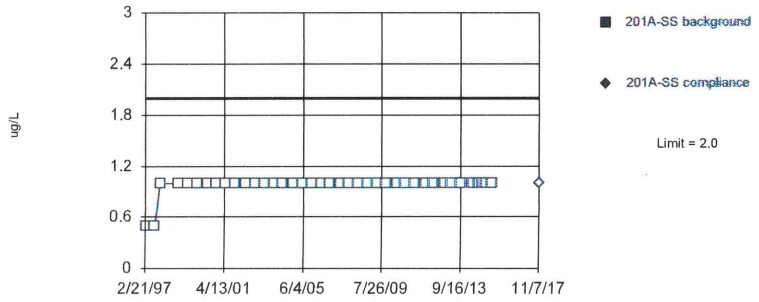
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

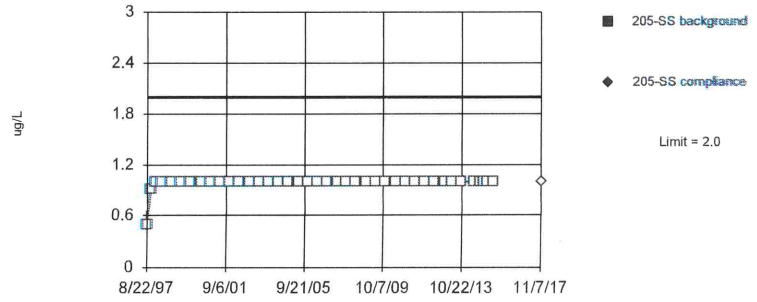
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

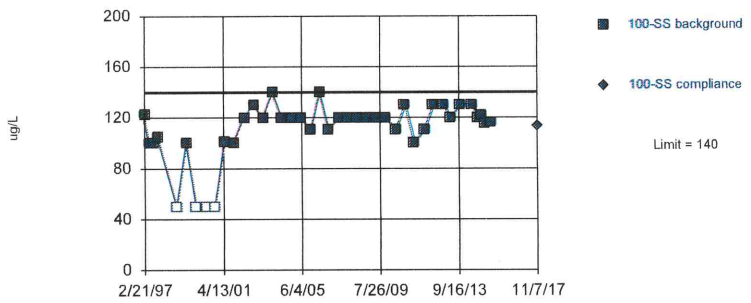
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

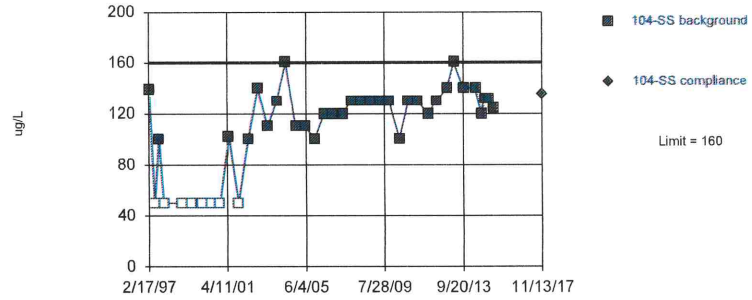
Constituent: Boron Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

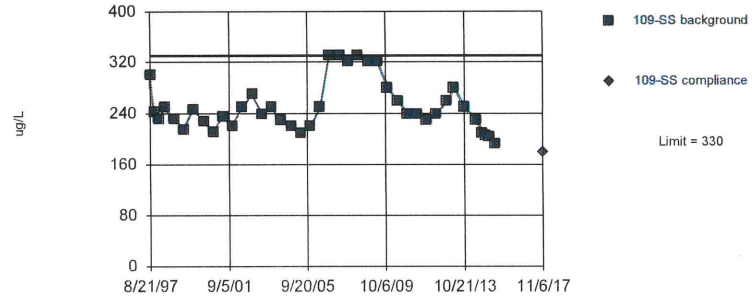
Constituent: Boron Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

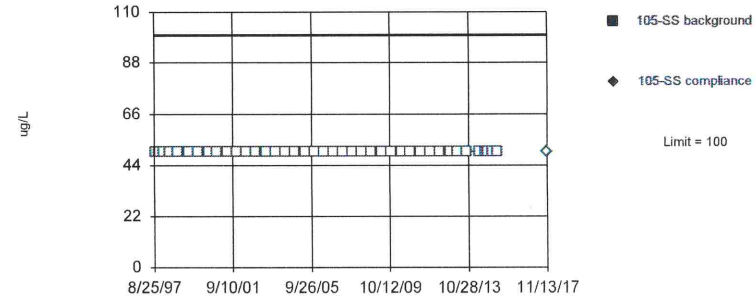
Constituent: Boron Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

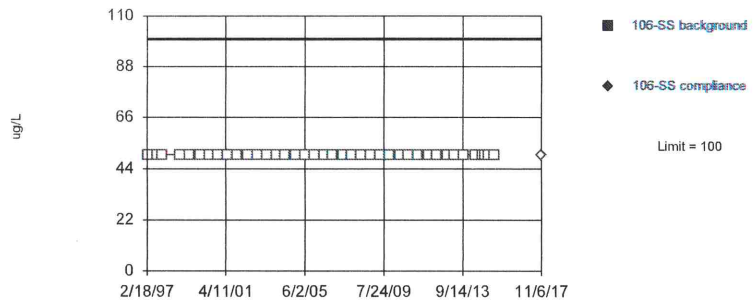
Constituent: Boron Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

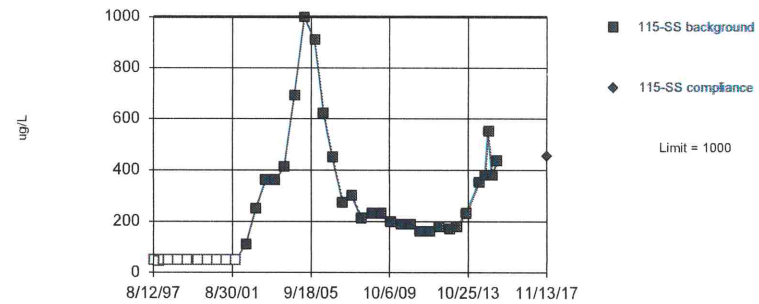
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

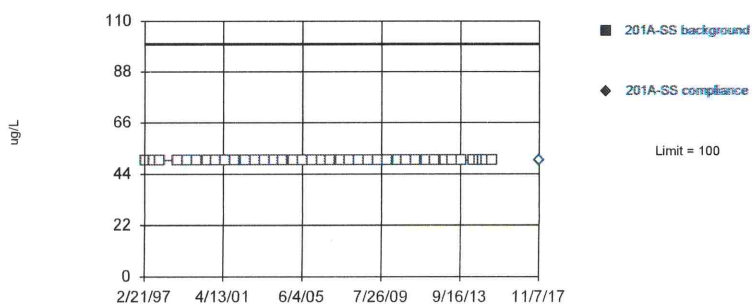
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:39 AM

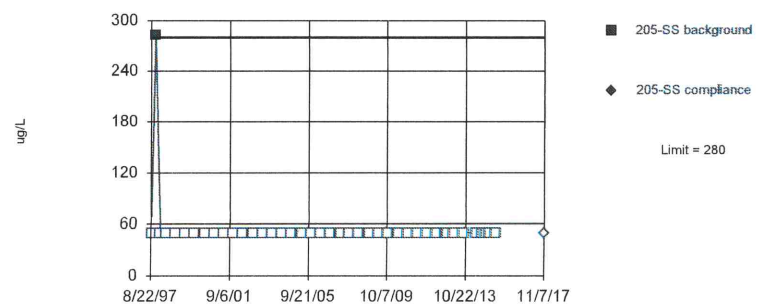
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:39 AM

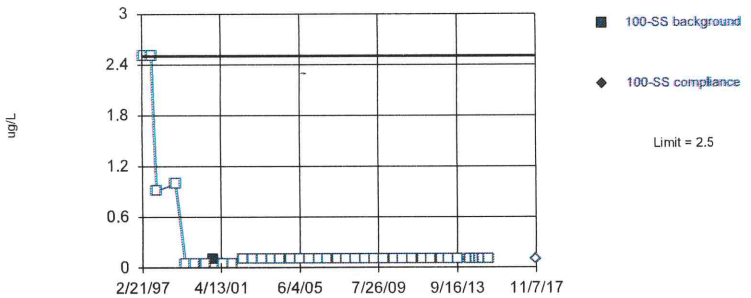
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

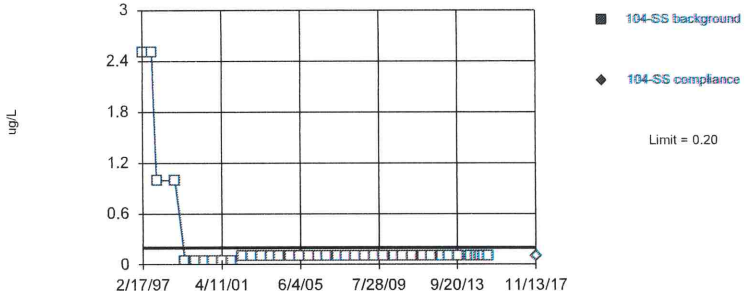
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

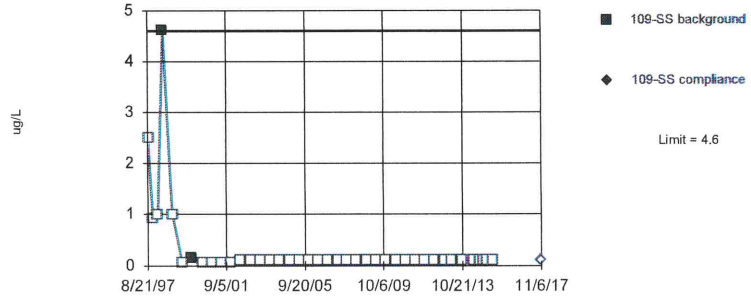
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

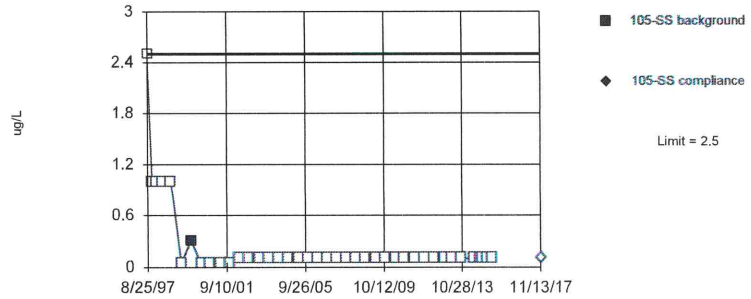
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

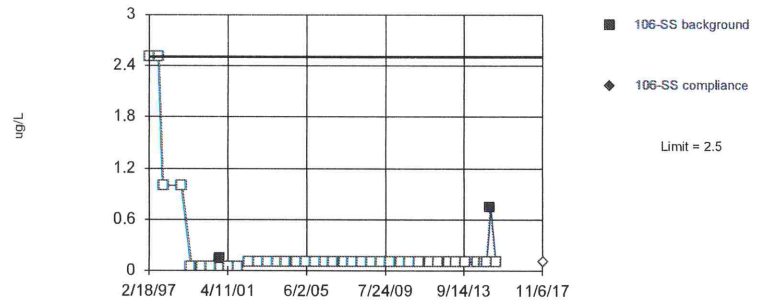
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

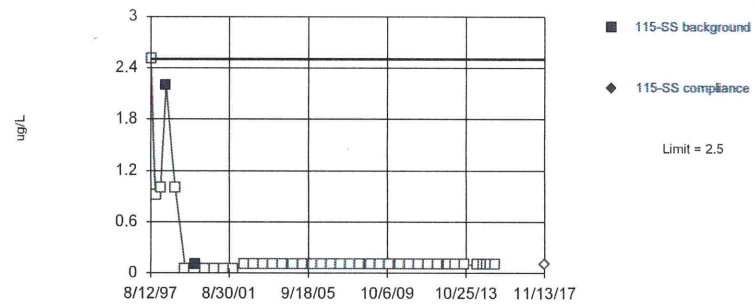
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

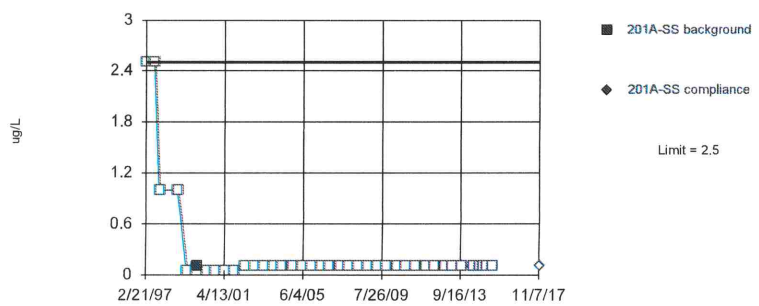
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

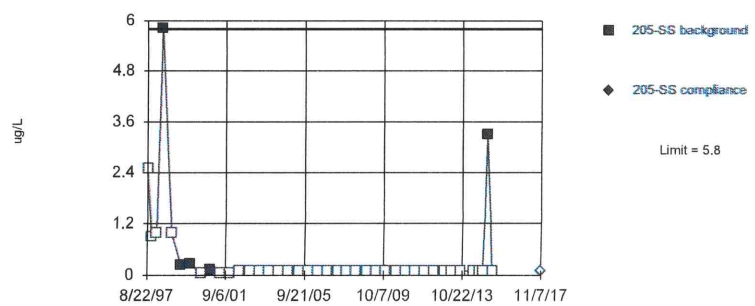
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

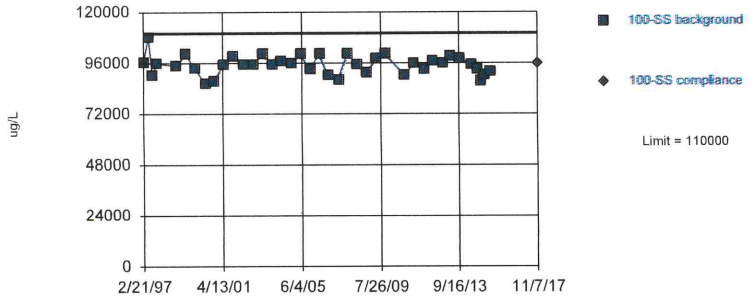
Constituent: Cadmium Total Analysis Run 12/30/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 76000 (5/19/2010).

Constituent: Calcium Total Analysis Run 12/30/2017 9:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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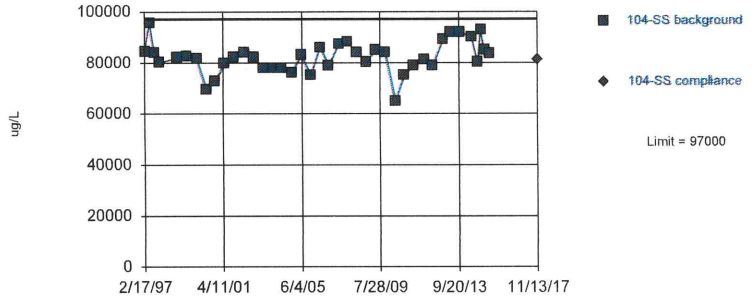
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Calcium Total Analysis Run 12/30/2017 9:39 AM

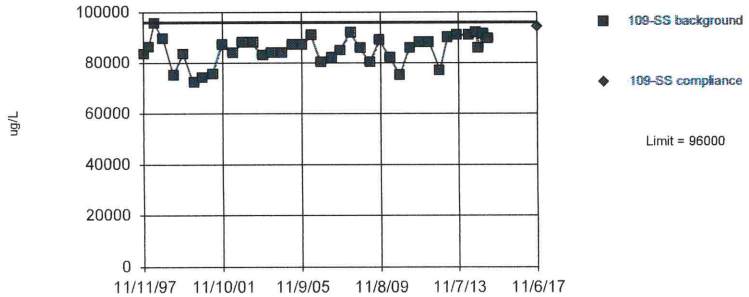
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 174000 (8/21/1997).

Constituent: Calcium Total Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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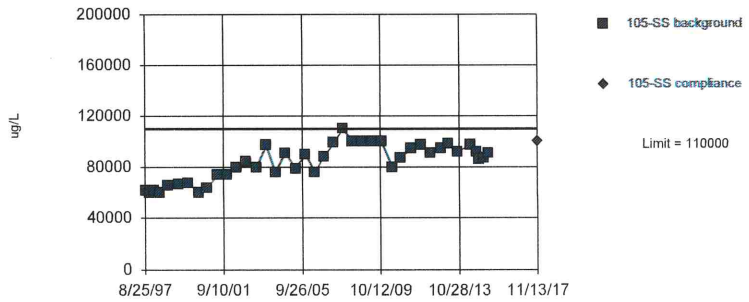
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.3e14, Std. Dev.=2.9e14, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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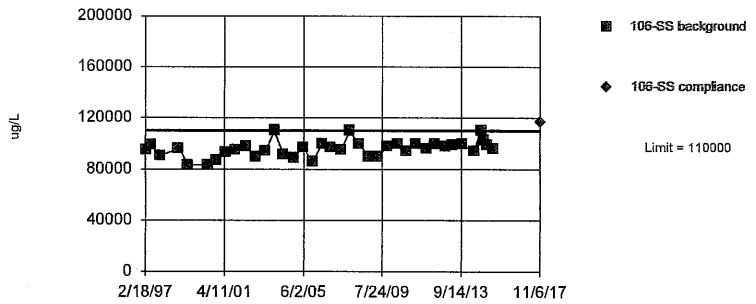
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.47, Std. Dev.=0.06606, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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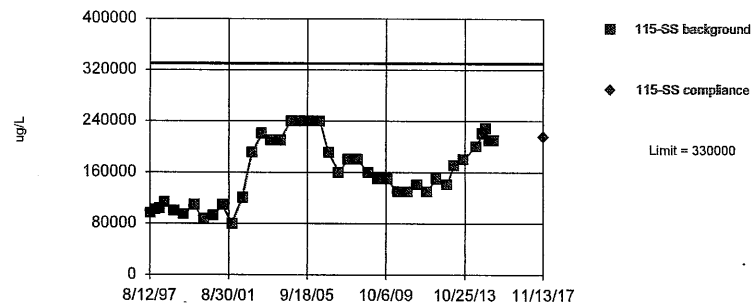
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

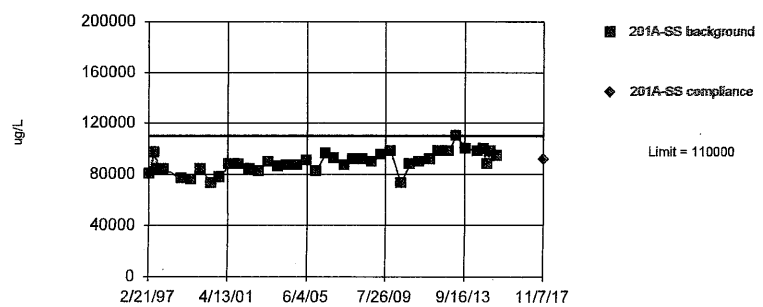
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

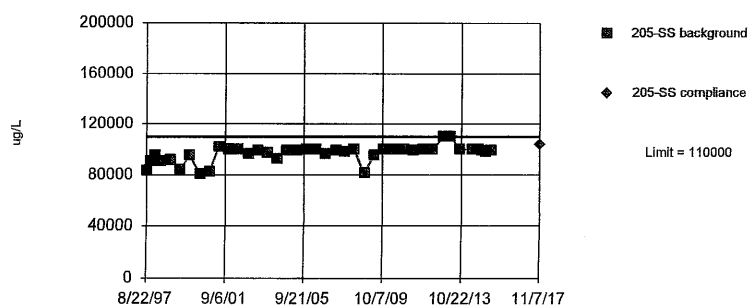
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Calcium Total Analysis Run 12/30/2017 9:40 AM

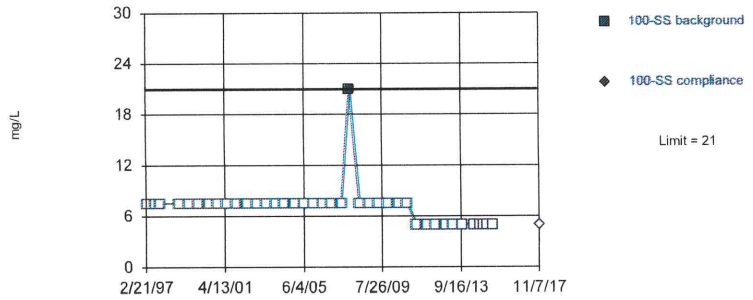
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

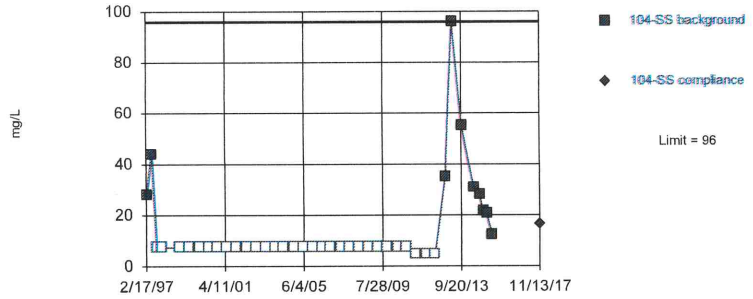
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

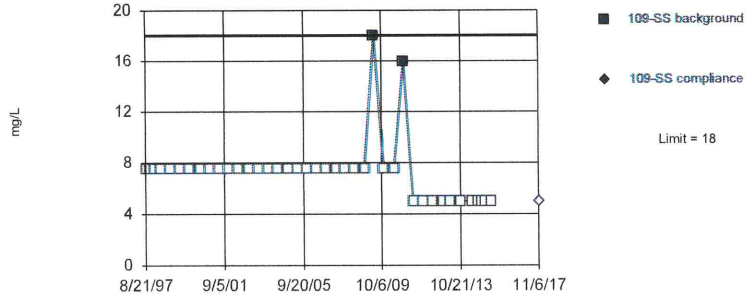
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

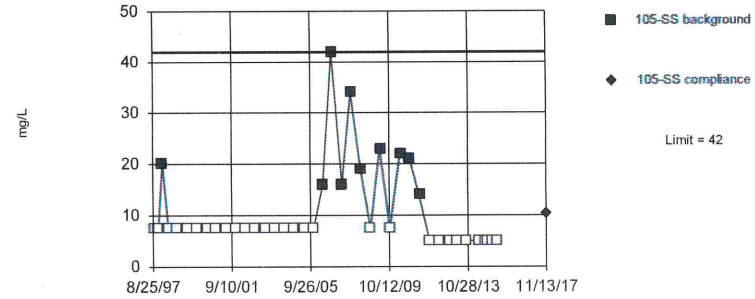
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

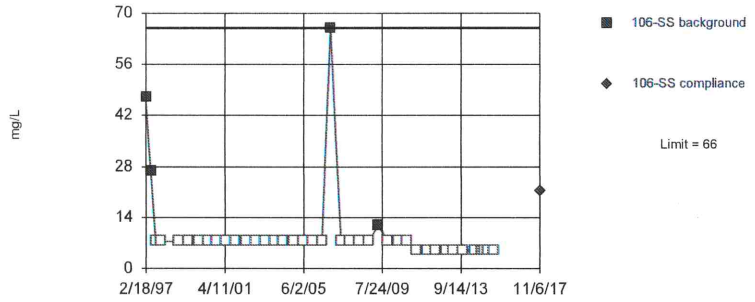
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

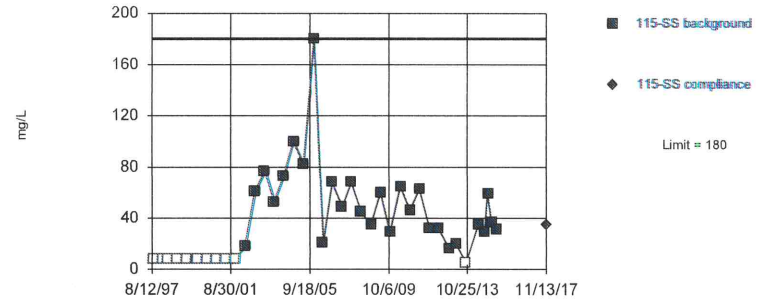
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

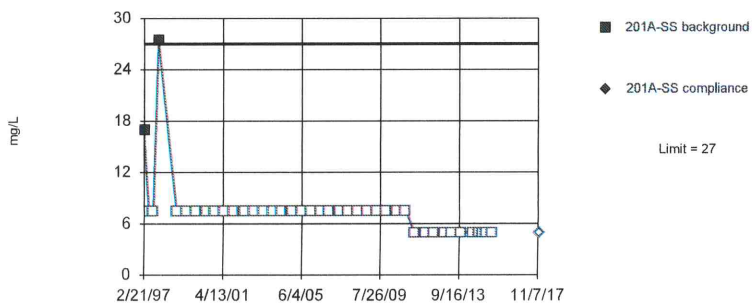
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

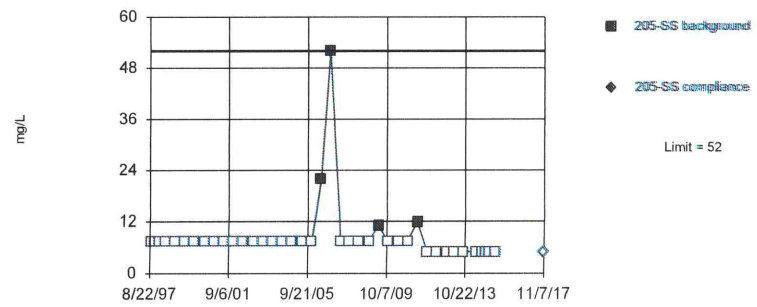
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

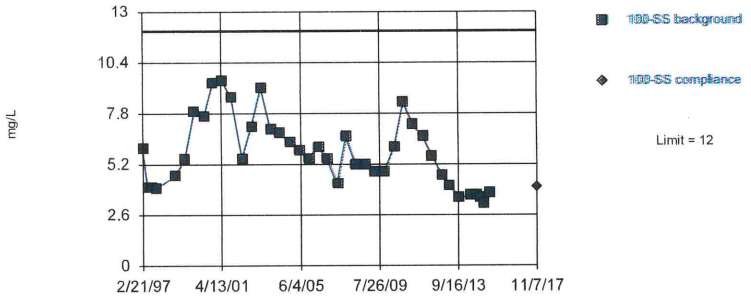
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

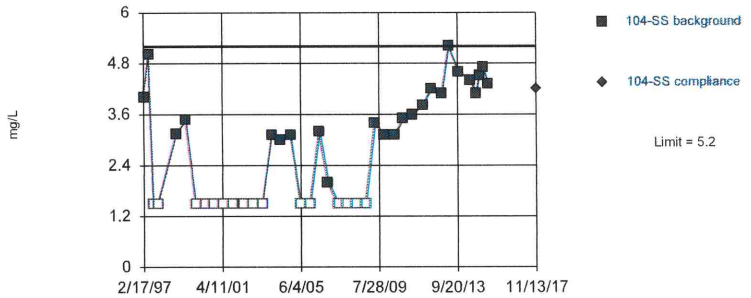
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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. 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 12/30/2017 9:40 AM

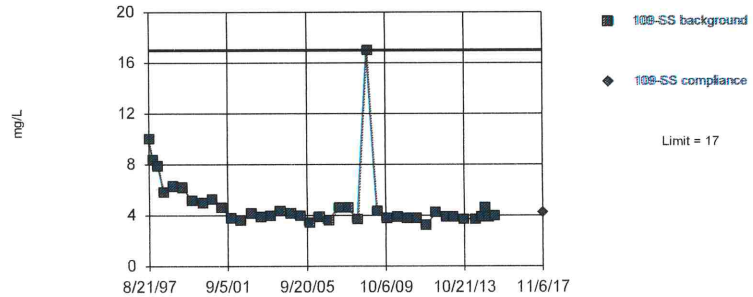
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

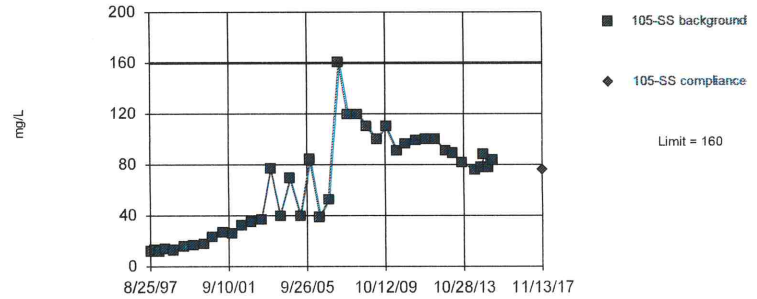
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

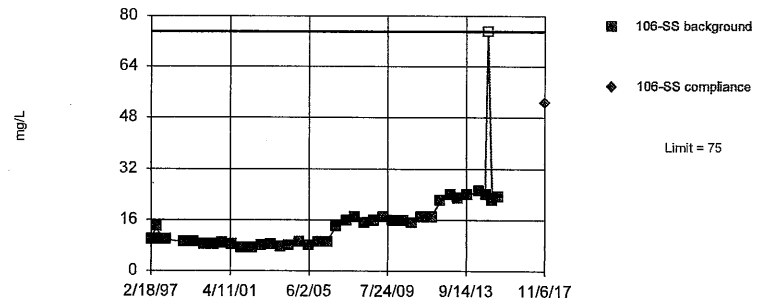
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

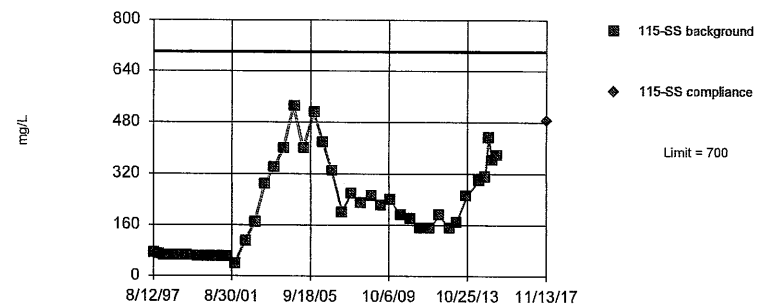
Constituent: Chloride Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

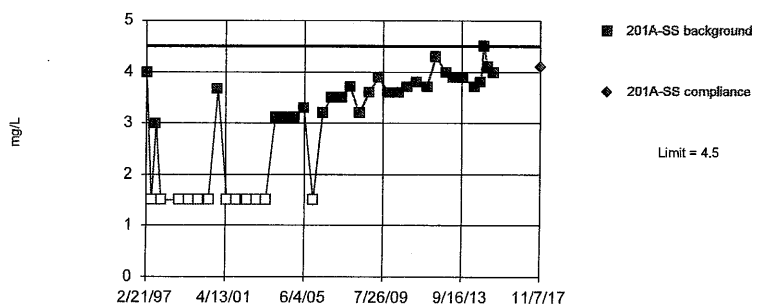
Constituent: Chloride Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

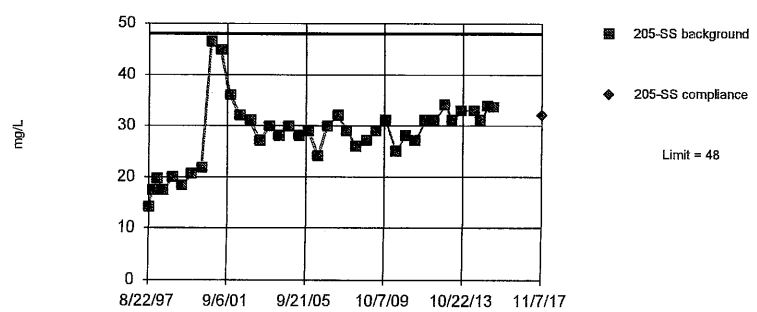
Constituent: Chloride Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: <150 (11/20/2014).

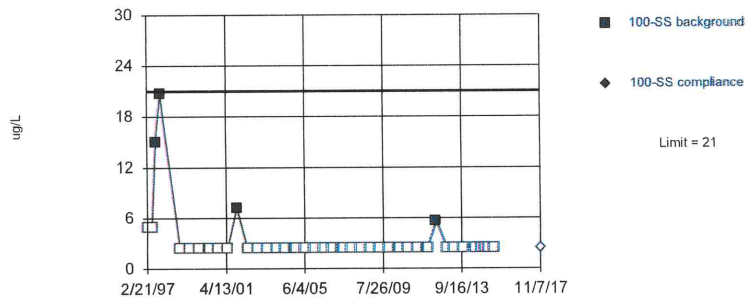
Constituent: Chloride Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

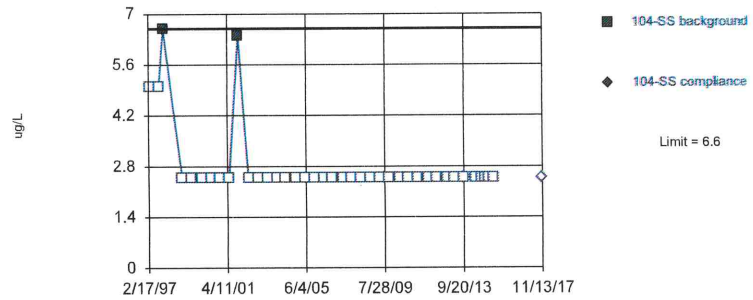
Constituent: Chromium Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

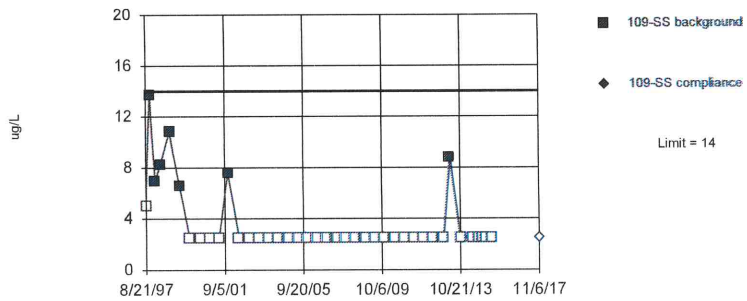
Constituent: Chromium Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

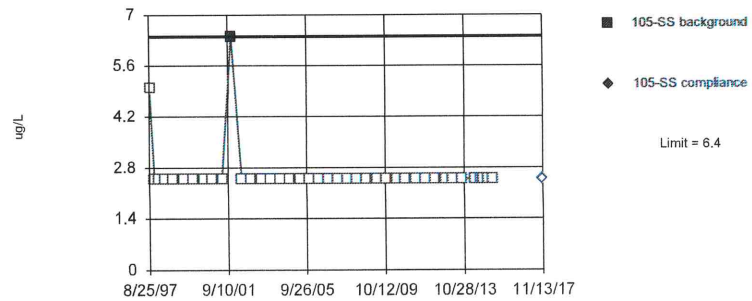
Constituent: Chromium Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

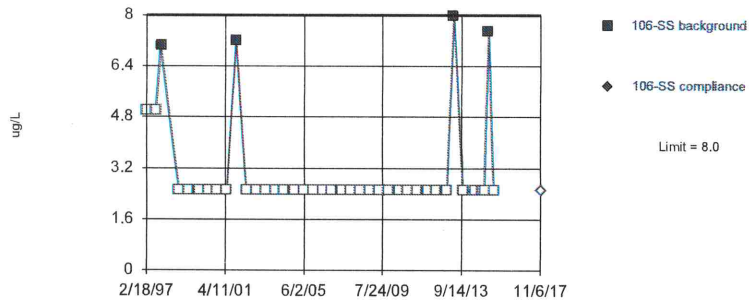
Constituent: Chromium Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

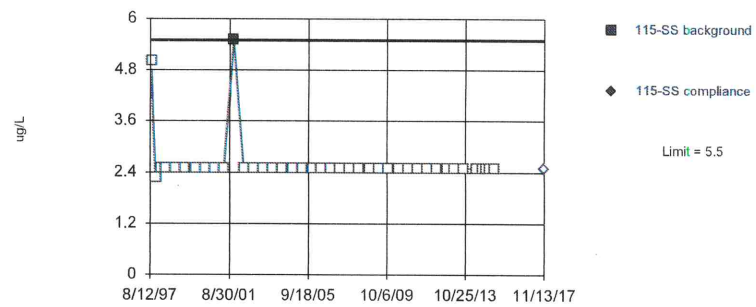
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

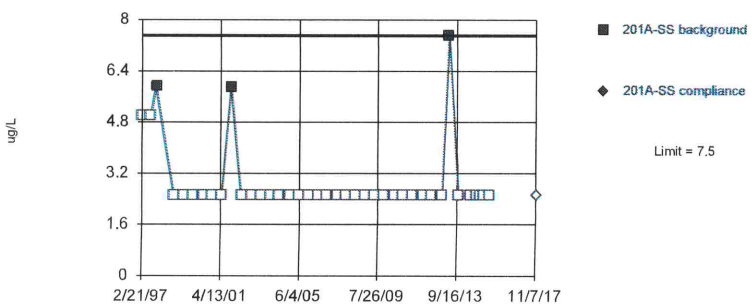
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

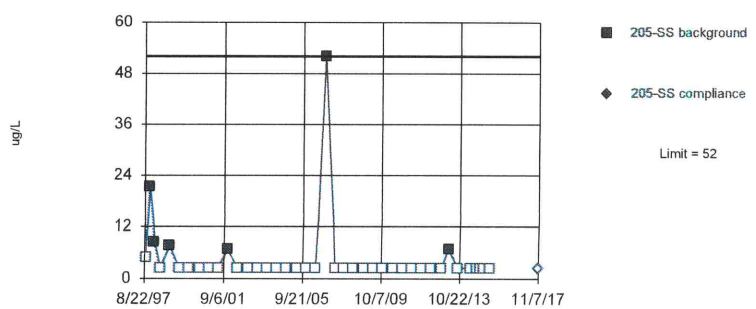
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

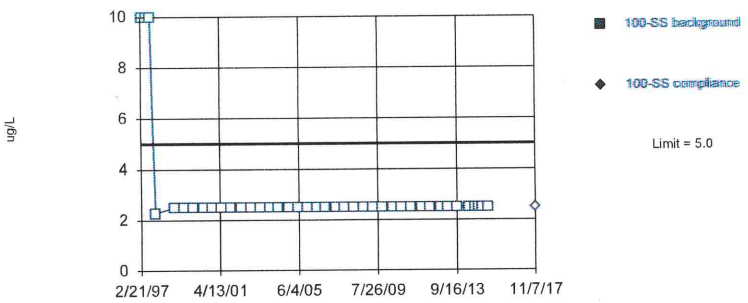
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:40 AM

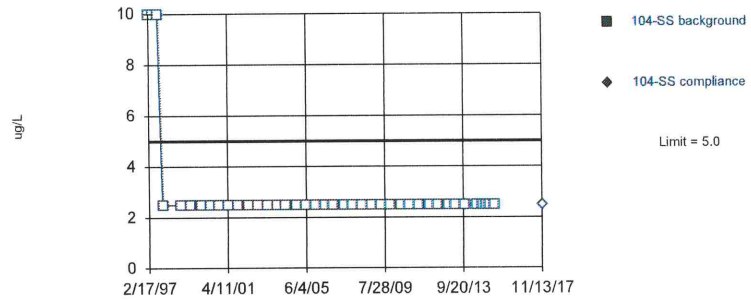
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:40 AM

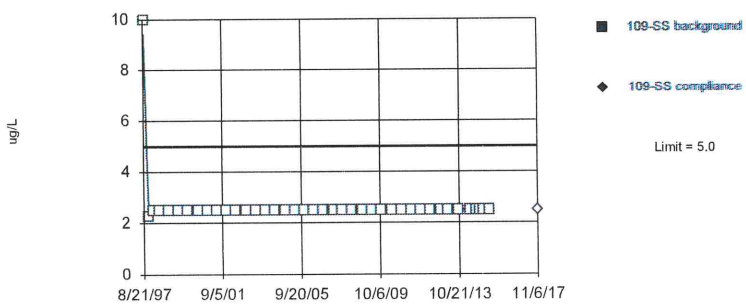
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:40 AM

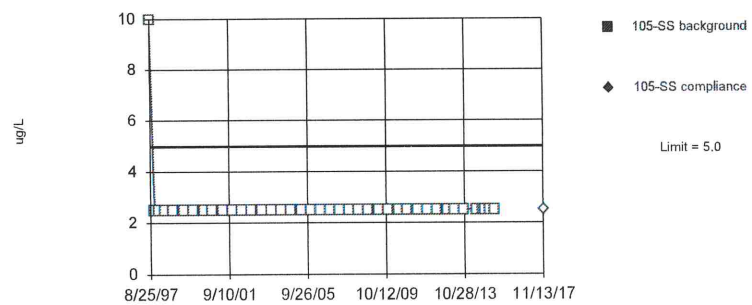
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:40 AM

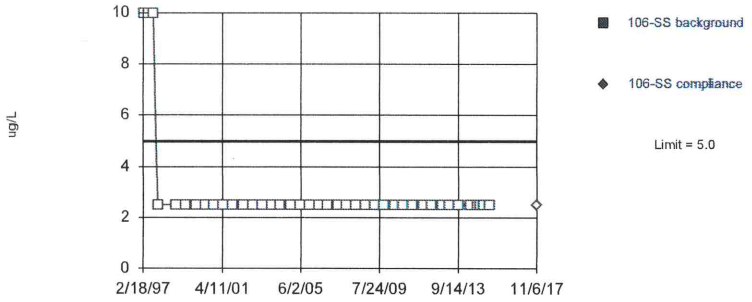
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

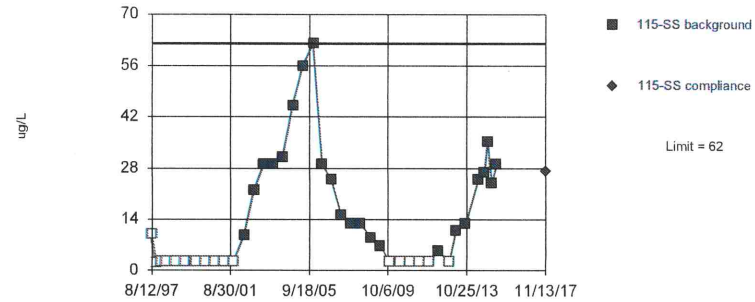
Constituent: Cobalt Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

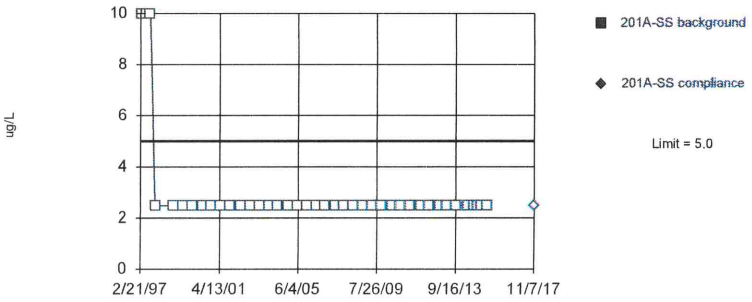
Constituent: Cobalt Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

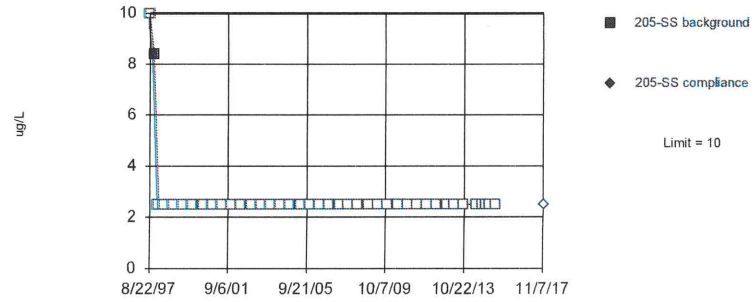
Constituent: Cobalt Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

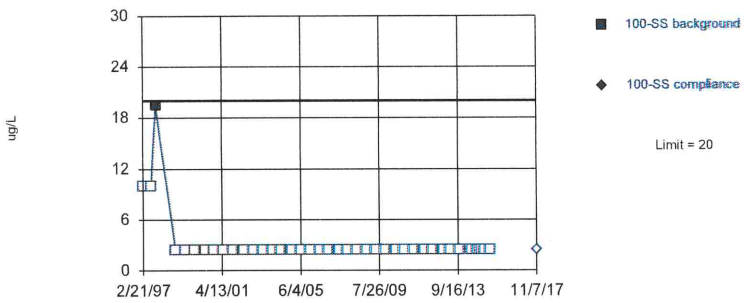
Constituent: Cobalt Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

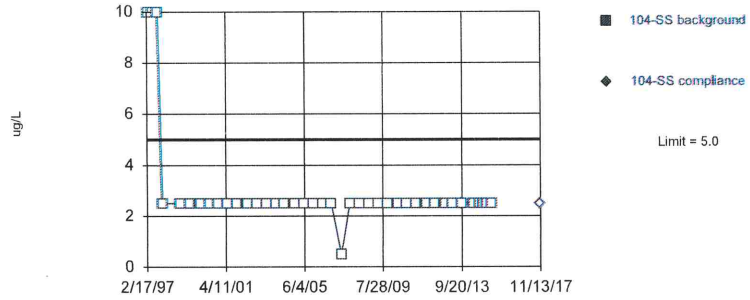
Constituent: Copper Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

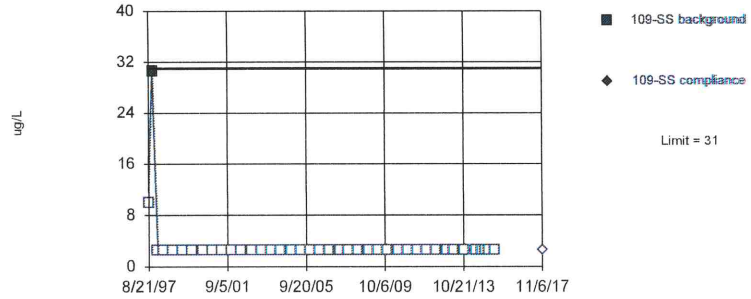
Constituent: Copper Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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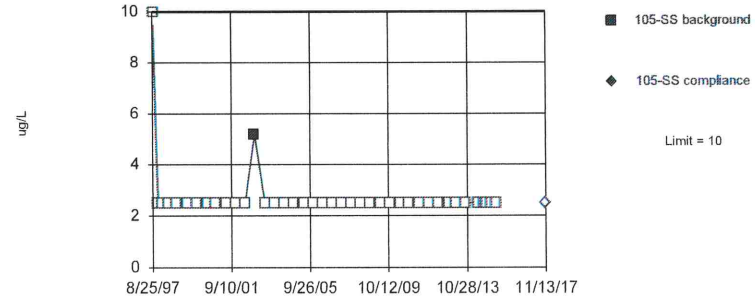
Hollow symbols indicate censored values.

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.

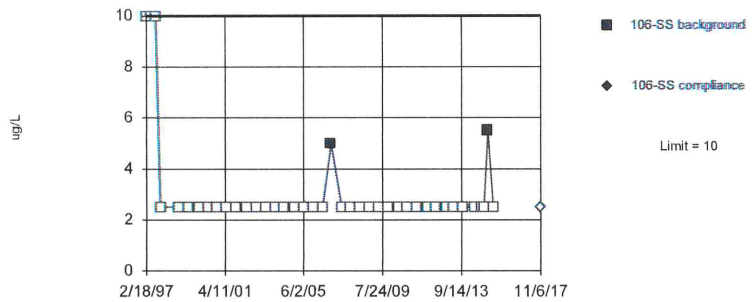
Constituent: Copper Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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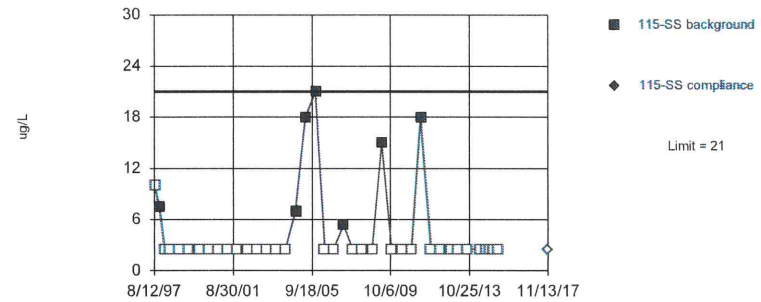
Hollow symbols indicate censored values.

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 12/30/2017 9:40 AM

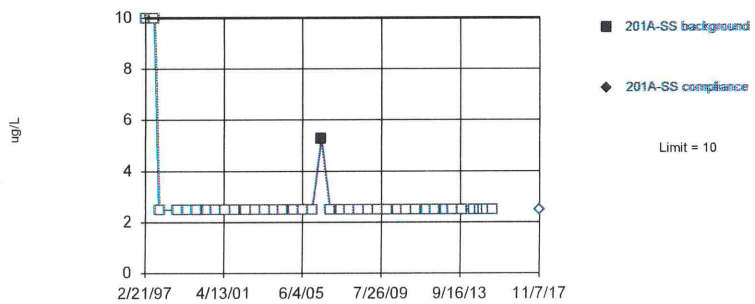
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:40 AM

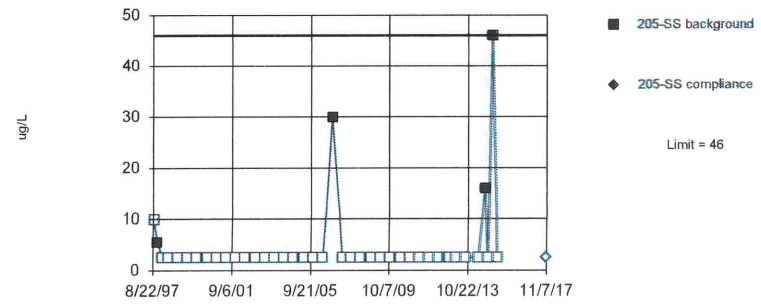
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Copper Total Analysis Run 12/30/2017 9:40 AM

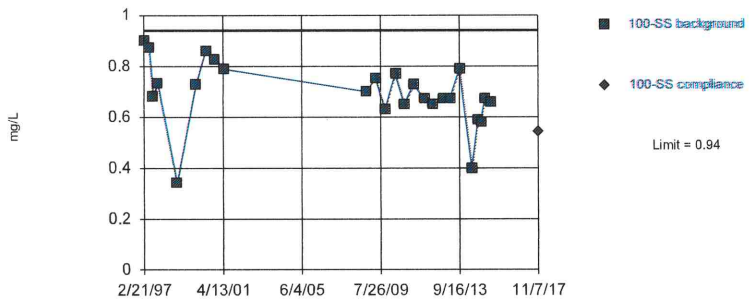
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: <0.25 (5/18/1999).

Constituent: Fluoride Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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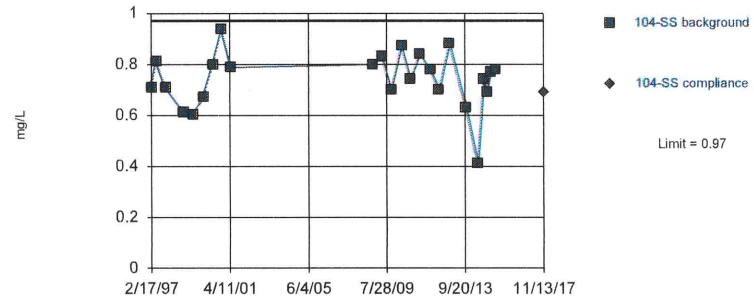
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=0.4327, Std. Dev.=0.1674, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9904, critical = 0.884. Kappa = 2.811 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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).

Constituent: Fluoride Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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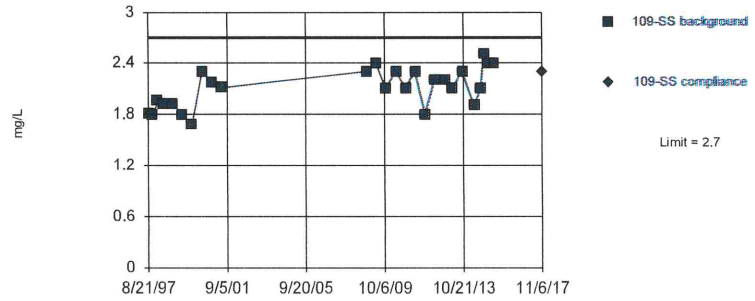
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.504, Std. Dev.=0.9566, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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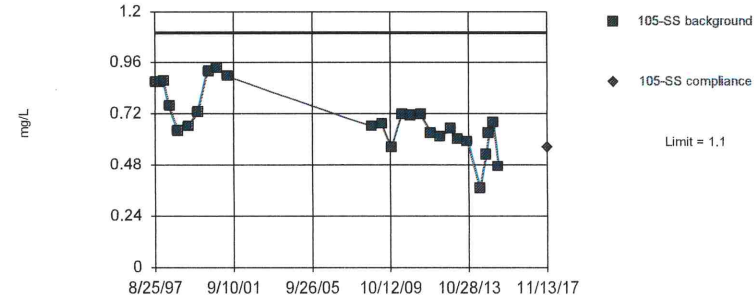
Within Limit

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 = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Fluoride Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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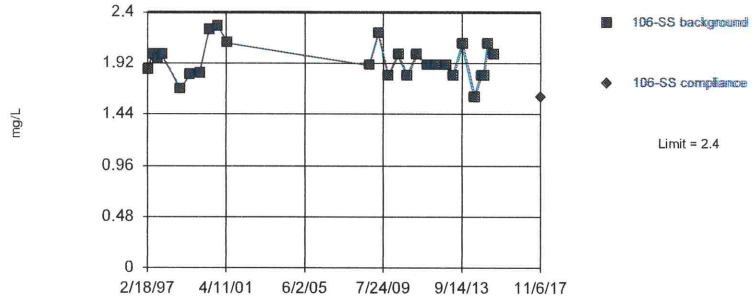
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6576, Std. Dev.=0.08543, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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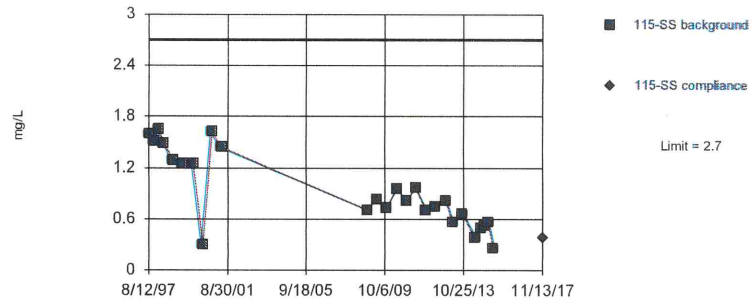
Within Limit

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 = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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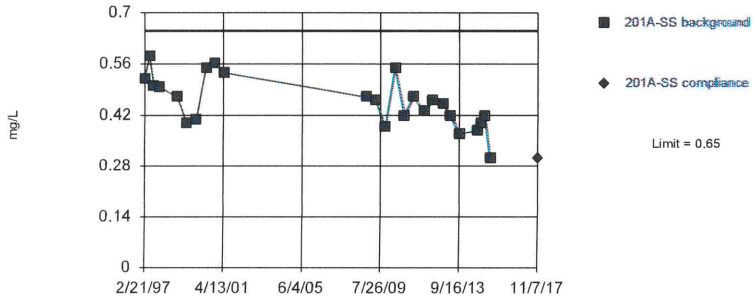
Within Limit

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 = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.2 (5/28/2014).

Constituent: Fluoride Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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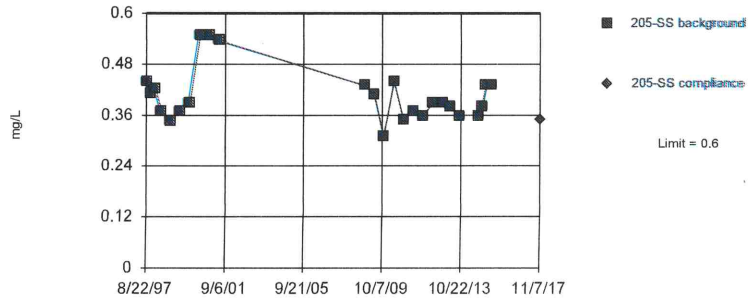
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.909, Std. Dev.=0.1421, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9114, critical = 0.888. Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.18 (5/28/2014).

Constituent: Fluoride Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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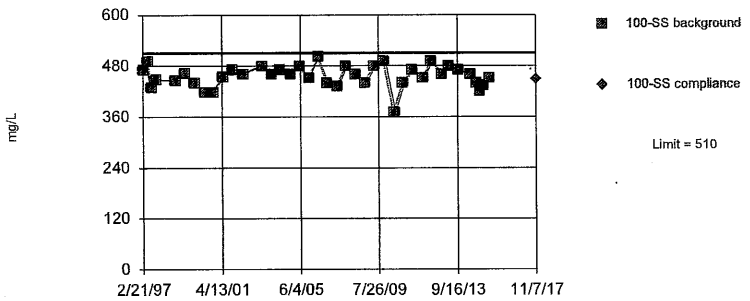
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.0e13, Std. Dev.=5.2e12, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9827, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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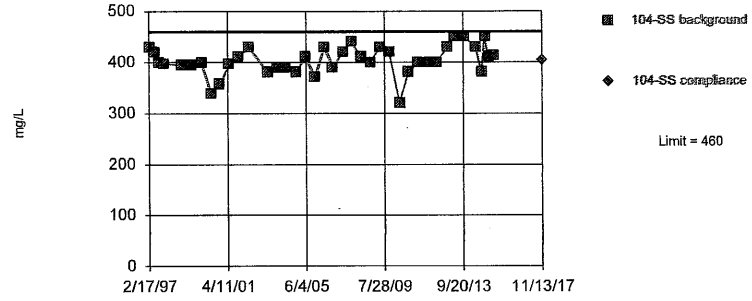
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=2.7e10, Std. Dev.=7.1e9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9686, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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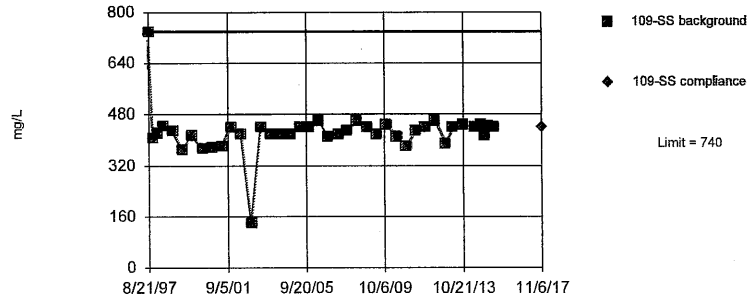
Within Limit

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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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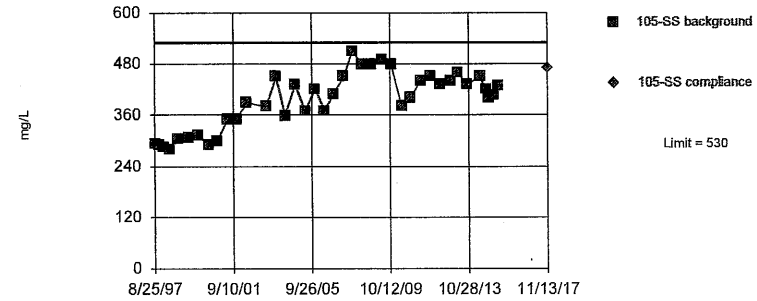
Within Limit

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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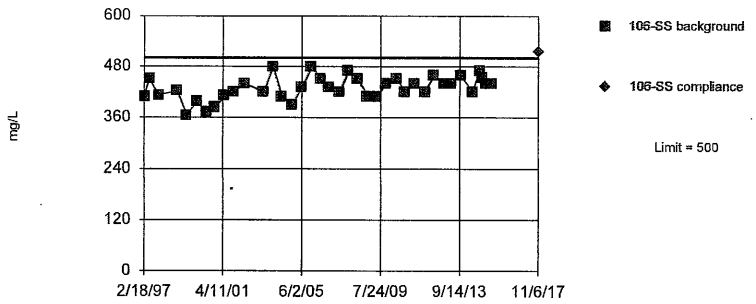
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=185370, Std. Dev.=23529, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9721, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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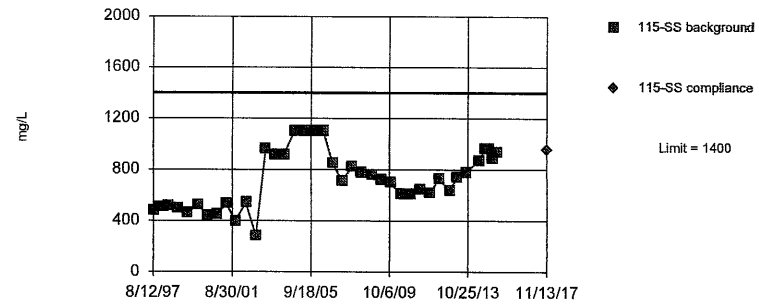
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=26.46, Std. Dev.=4.163, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9609, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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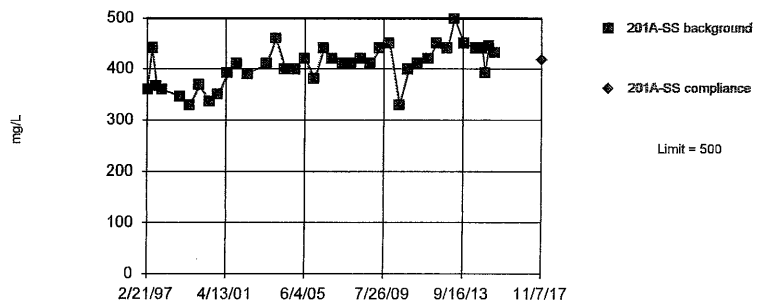
Within Limit

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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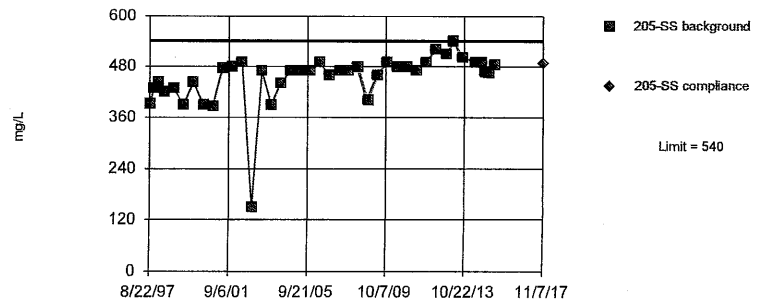
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.2e13, Std. Dev.=9.0e12, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 12/30/2017 9:40 AM

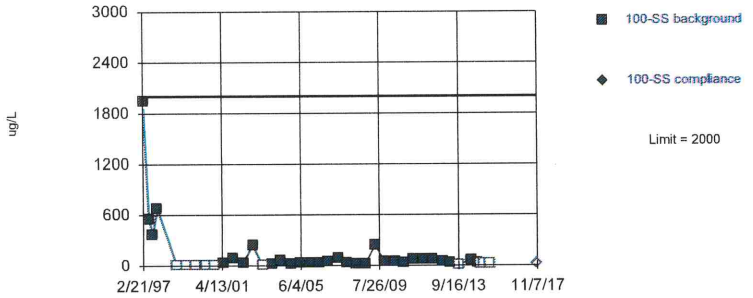
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Iron Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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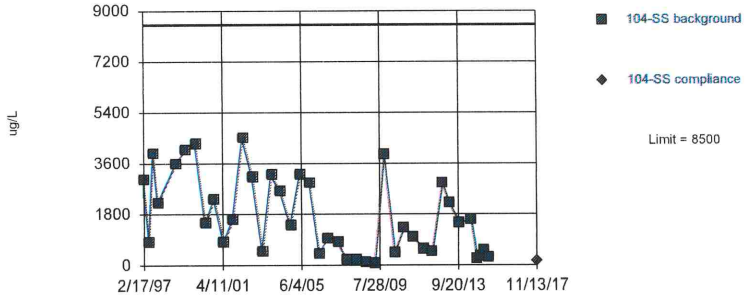
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

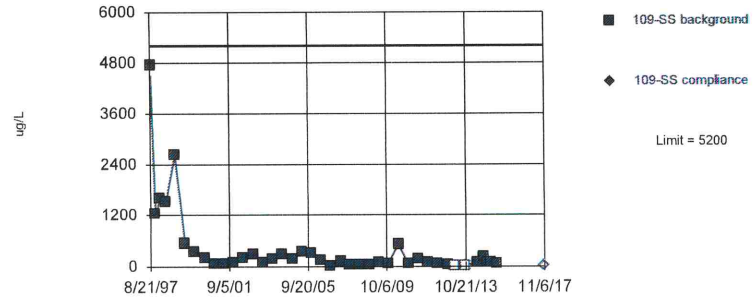
Constituent: Iron Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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=5.028, Std. Dev.=1.361, n=40, 5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

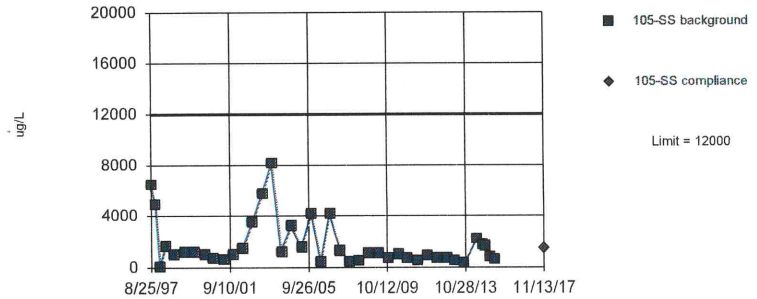
Constituent: Iron Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

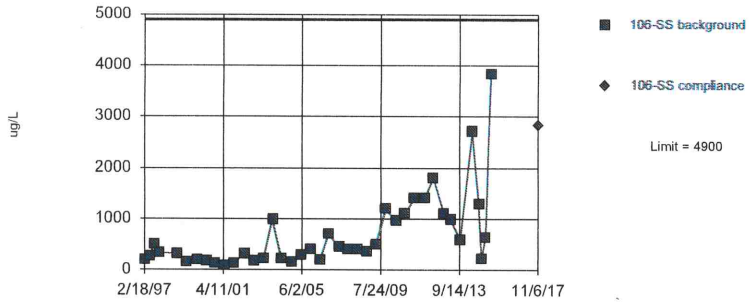
Constituent: Iron Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

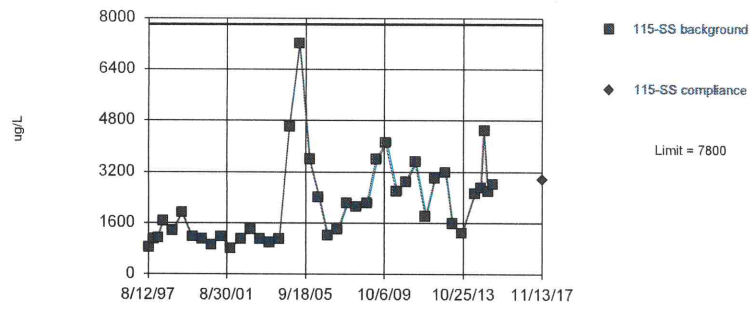
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

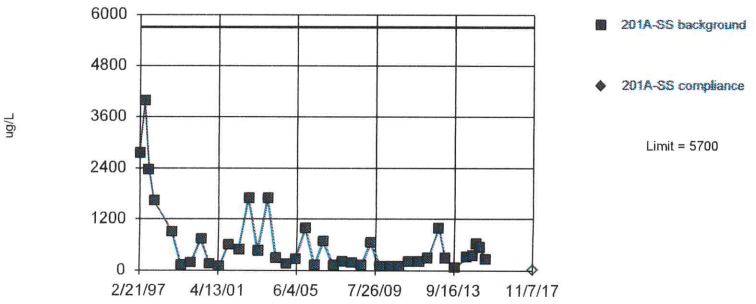
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.9, Std. Dev.=1.058, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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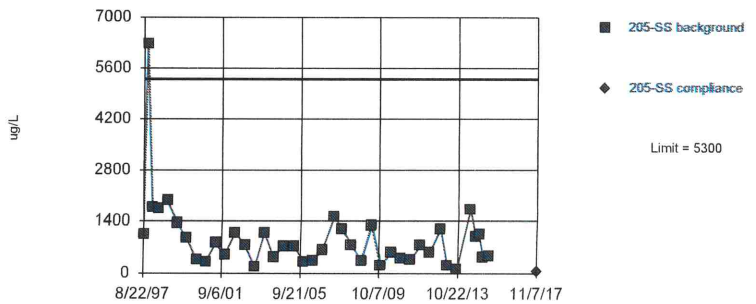
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.53, Std. Dev.=0.7894, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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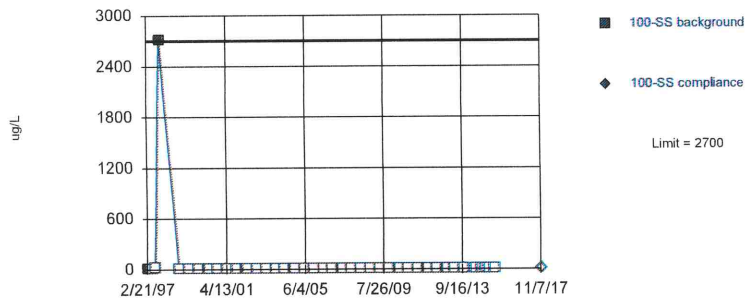
Hollow symbols indicate censored values.

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.

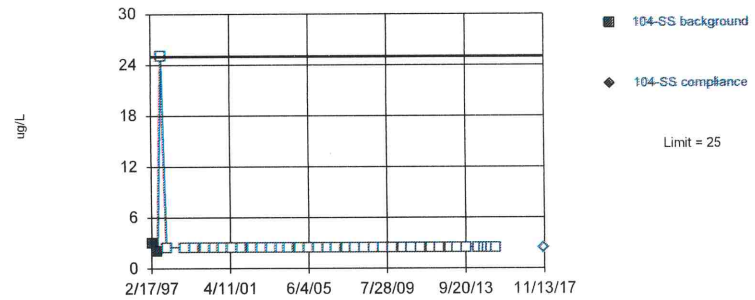
Constituent: Lead Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

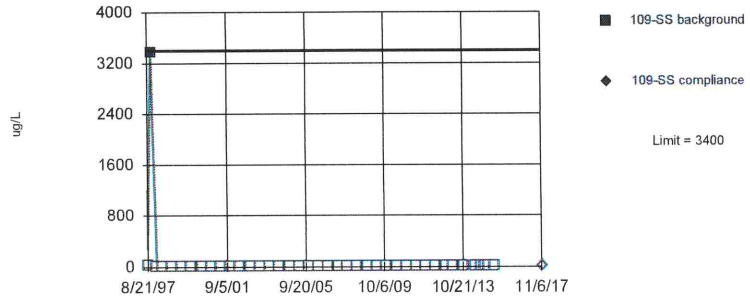
Constituent: Lead Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

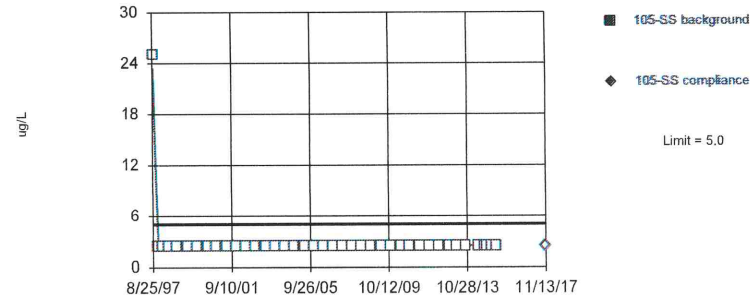
Constituent: Lead Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

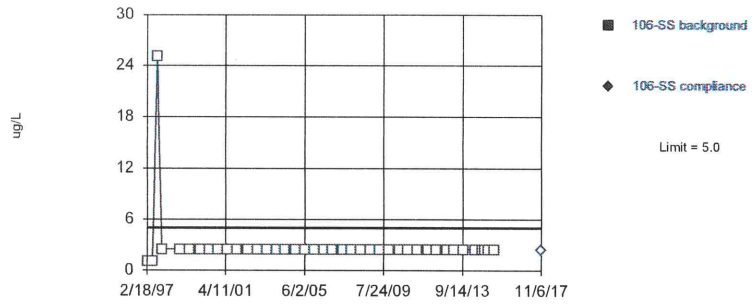
Constituent: Lead Total Analysis Run 12/30/2017 9:40 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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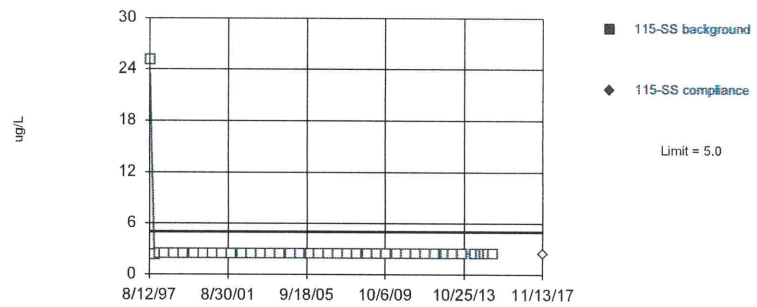
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



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

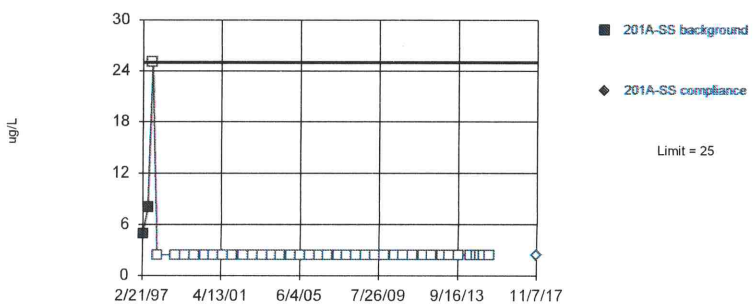
Constituent: Lead Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

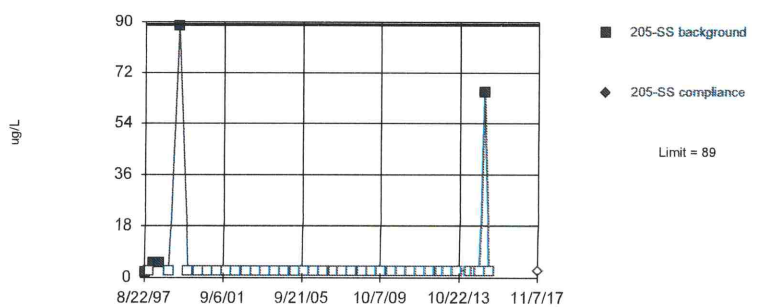
Constituent: Lead Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Lead Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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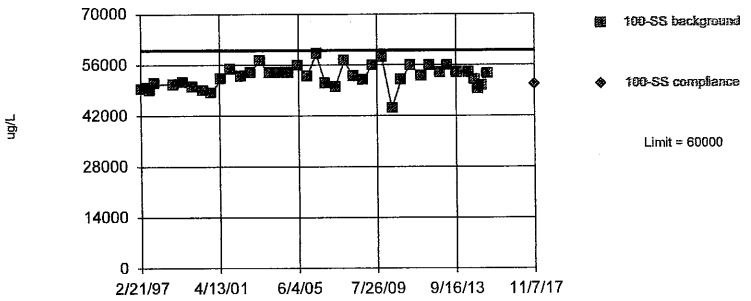
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Magnesium Total Analysis Run 12/30/2017 9:41 AM

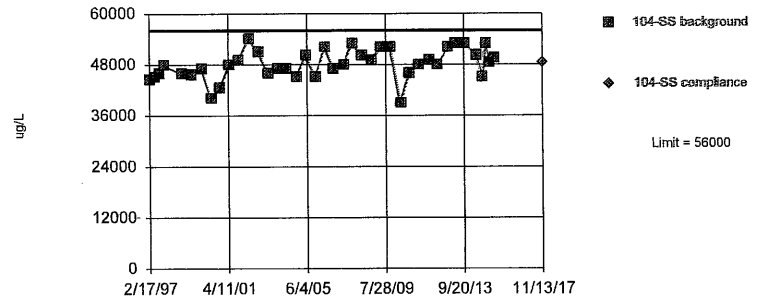
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

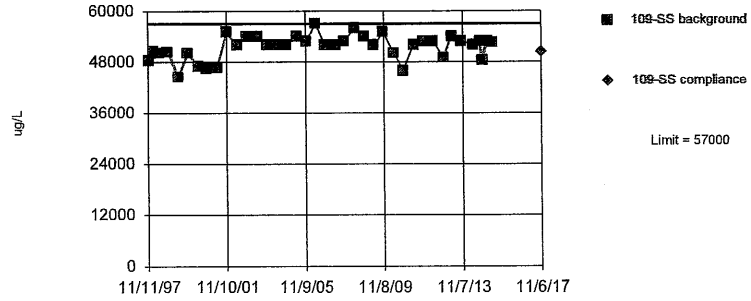
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 74000 (8/21/1997).

Constituent: Magnesium Total Analysis Run 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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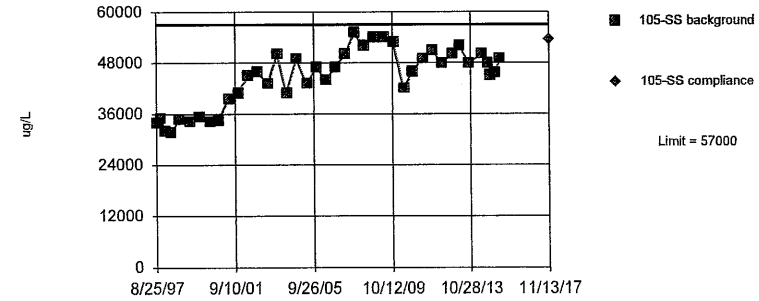
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Magnesium Total Analysis Run 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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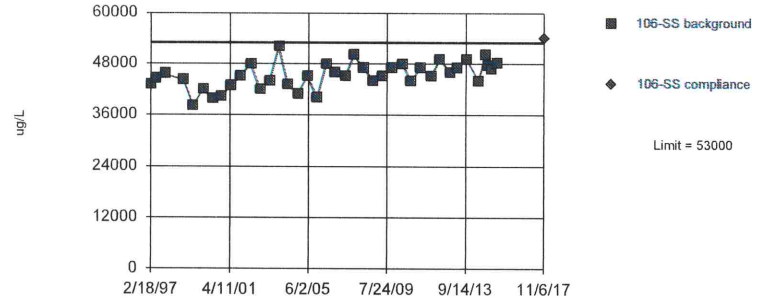
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=2.1e9, Std. Dev.=2.8e8, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9877, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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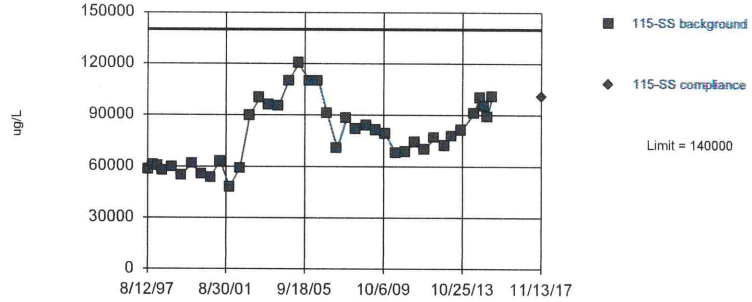
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

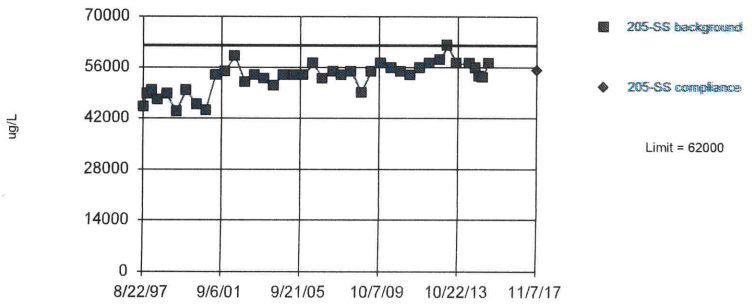
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

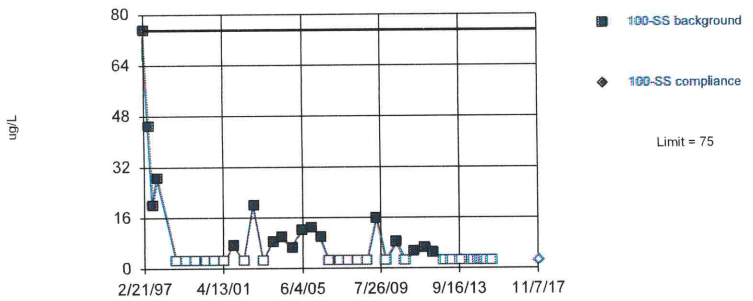
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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. 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.

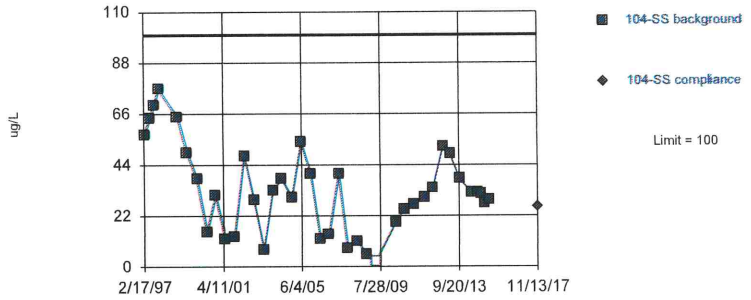
Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 160 (11/4/2009).

Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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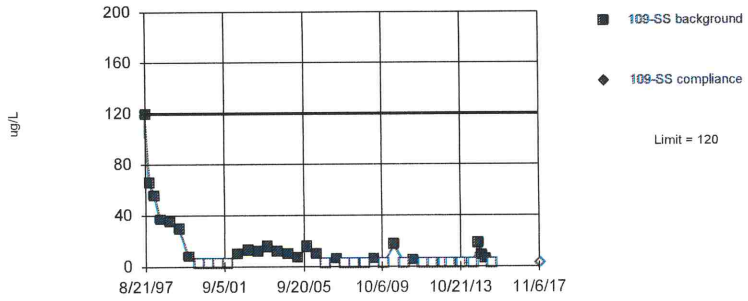
Hollow symbols indicate censored values.

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 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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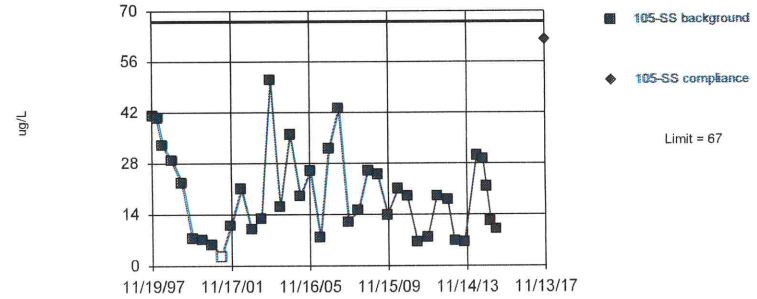
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 240 (8/25/1997).

Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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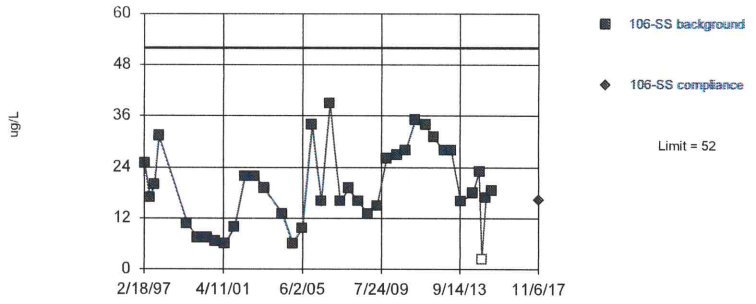
Hollow symbols indicate censored values.

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 = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 84.2 (11/11/1998); 270 (11/20/2003).

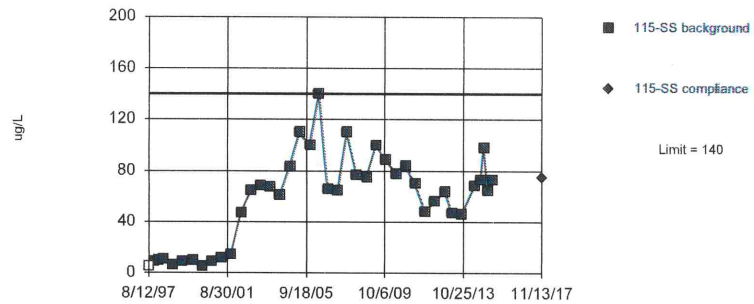
Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

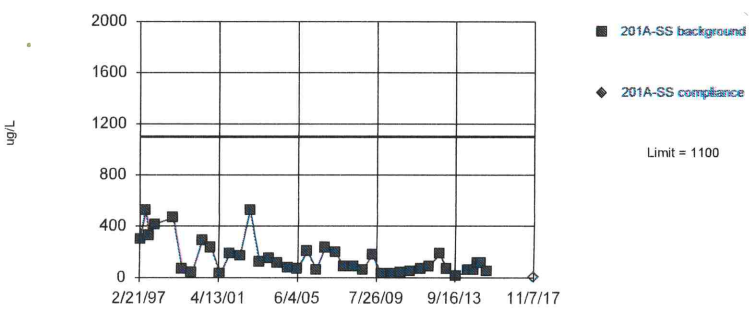
Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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=4.69, Std. Dev.=0.8887, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

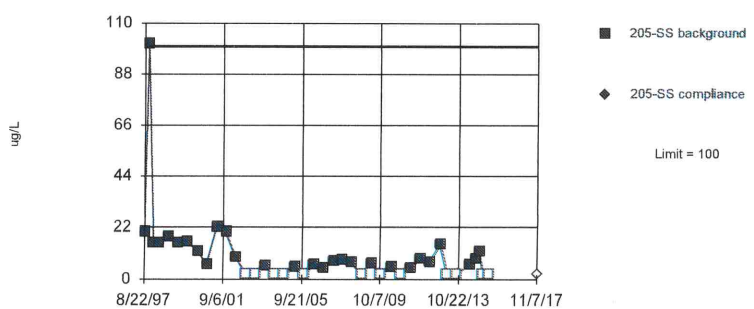
Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

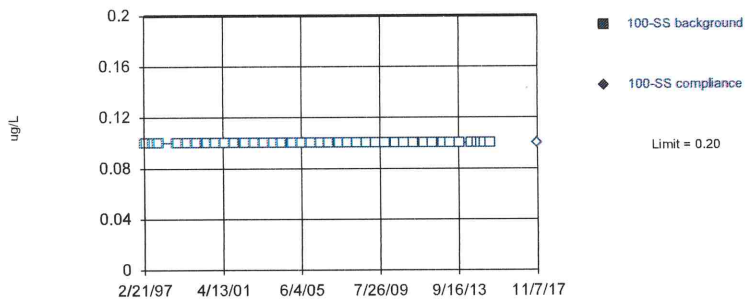
Constituent: Manganese Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

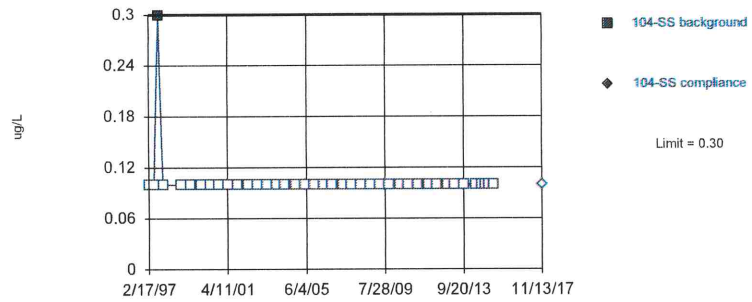
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

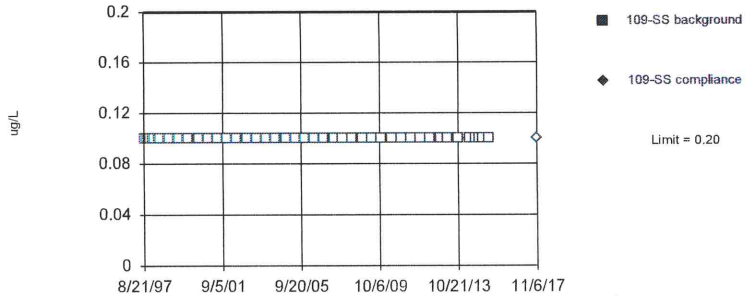
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

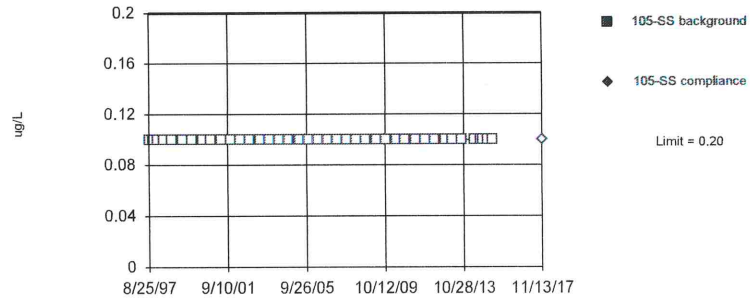
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

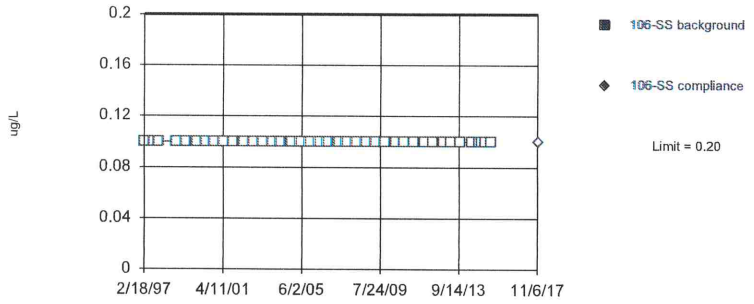
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

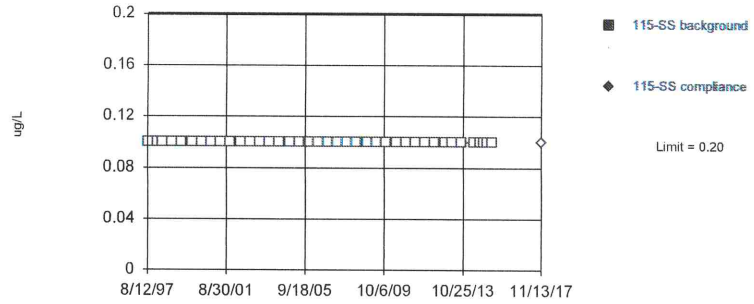
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

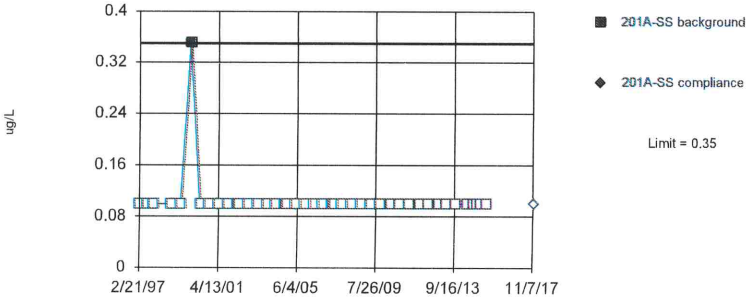
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

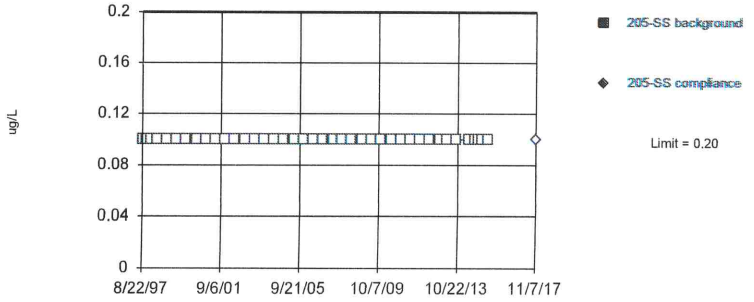
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

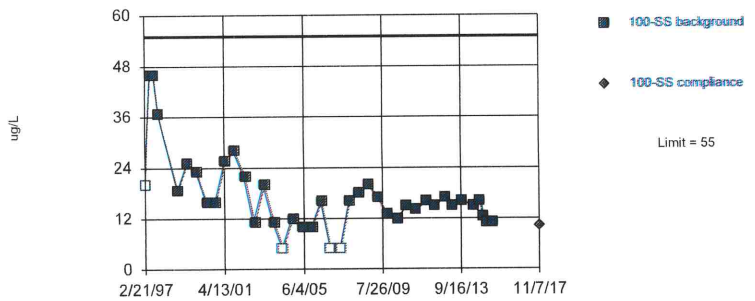
Constituent: Mercury Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

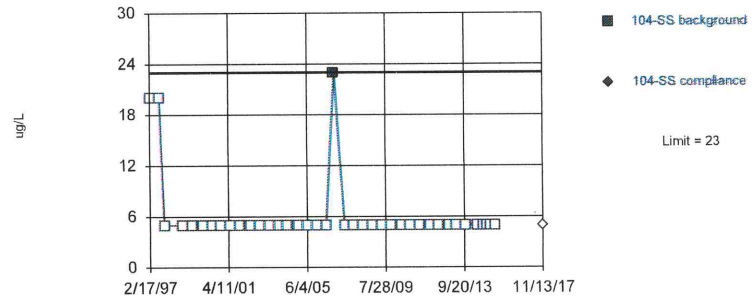
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

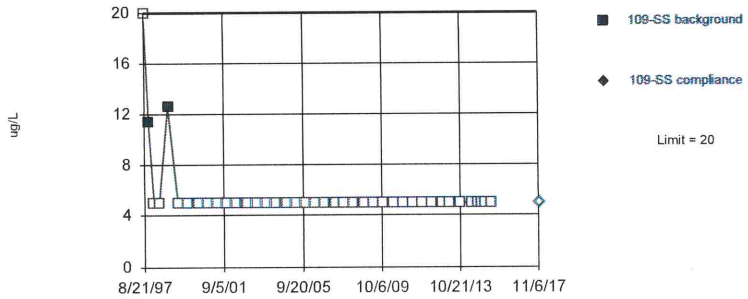
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

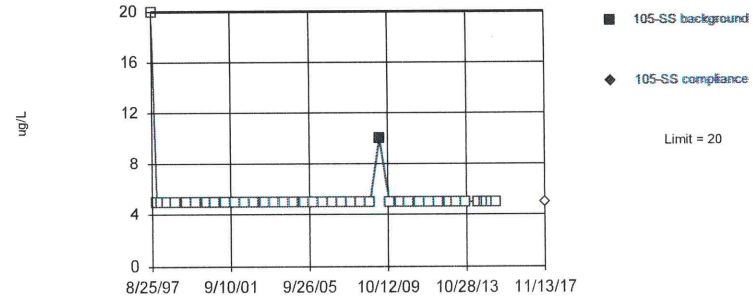
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

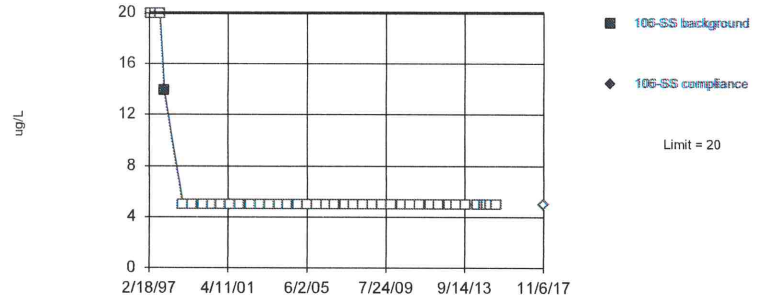
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

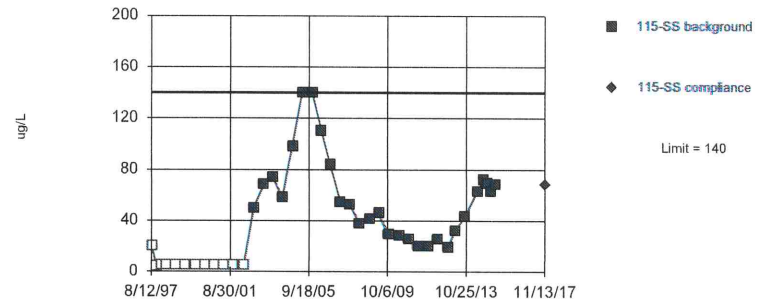
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

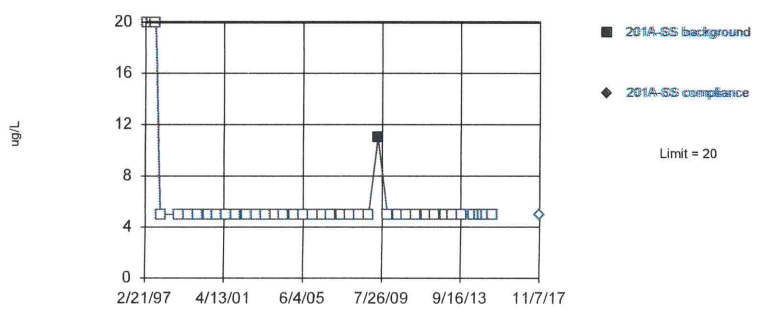
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

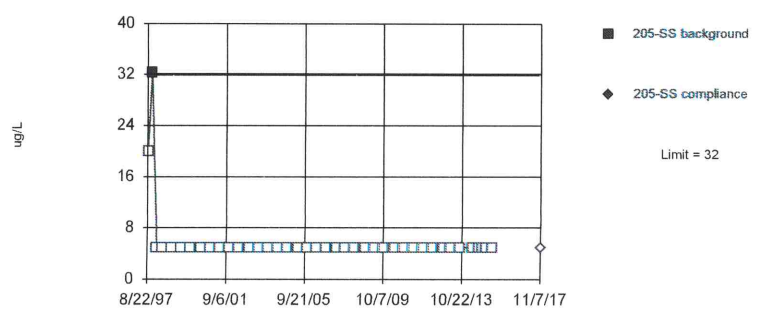
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

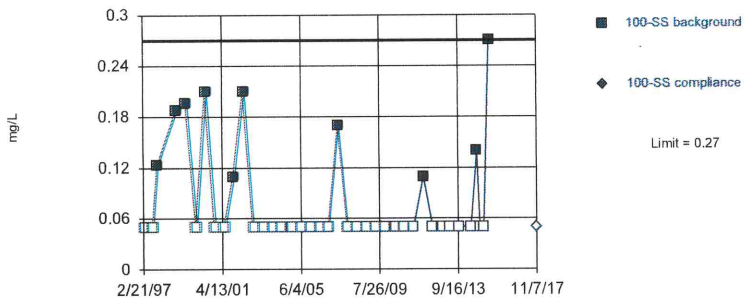
Constituent: Nickel Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

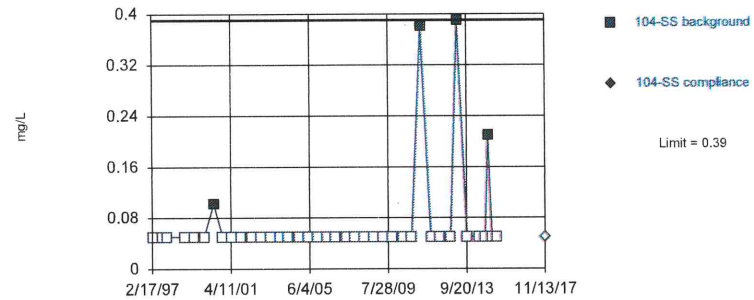
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

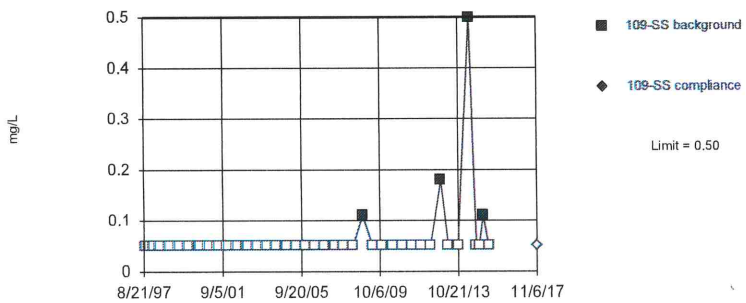
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

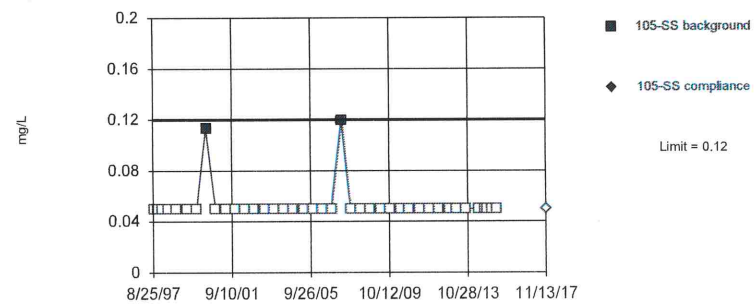
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

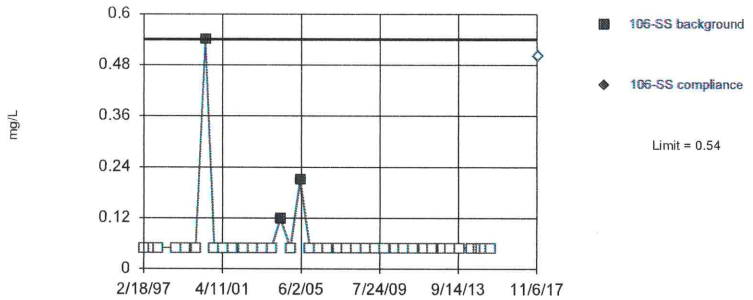
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

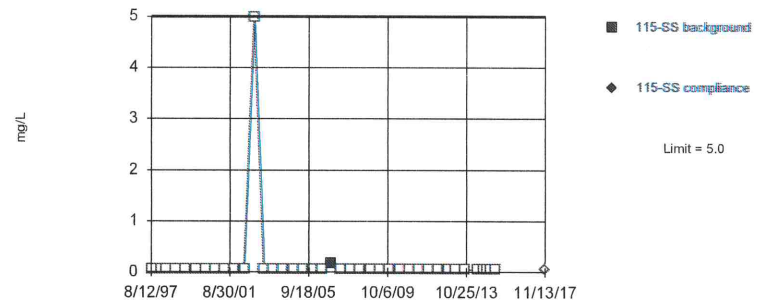
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

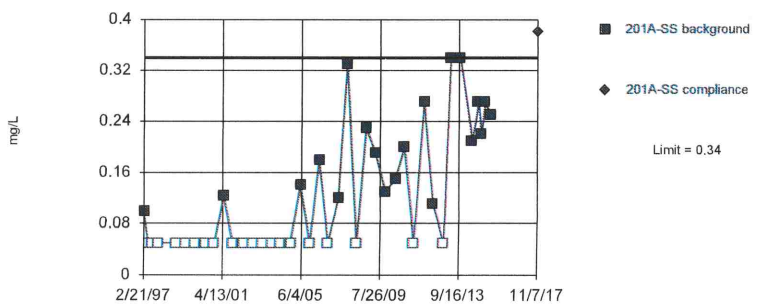
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 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.

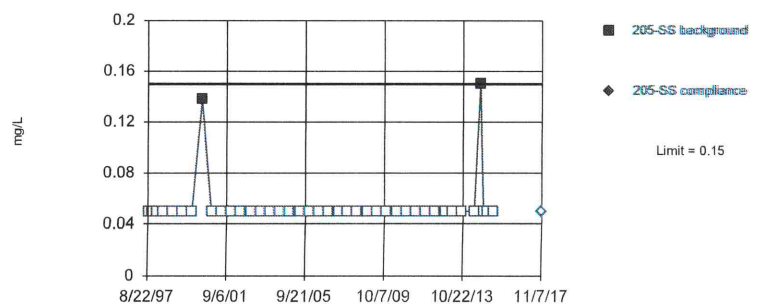
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

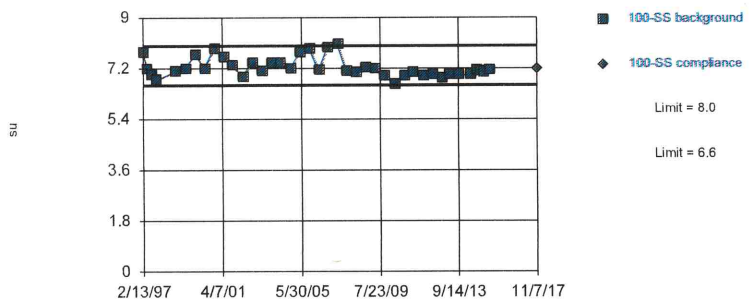
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 9:41 AM

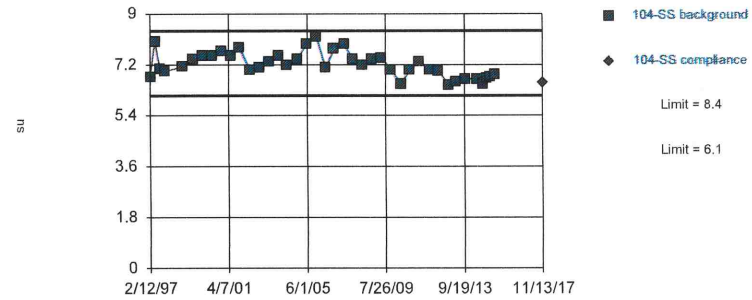
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

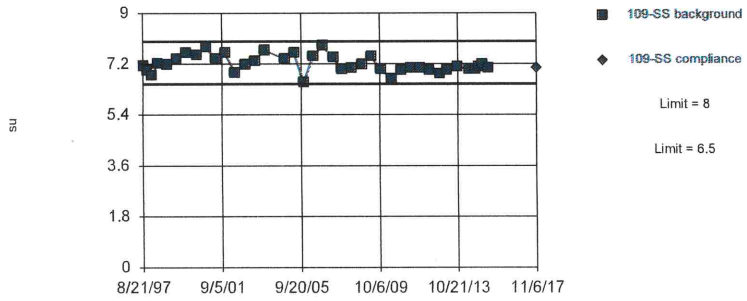
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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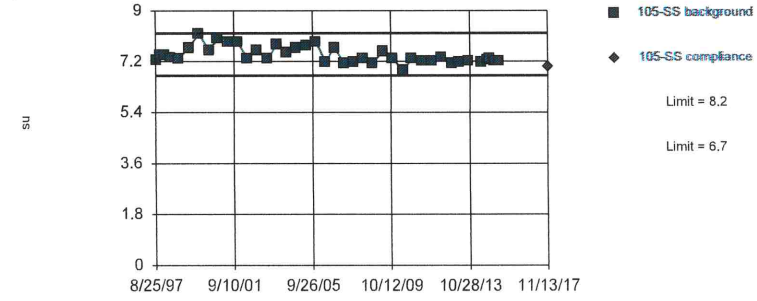
Within Limits

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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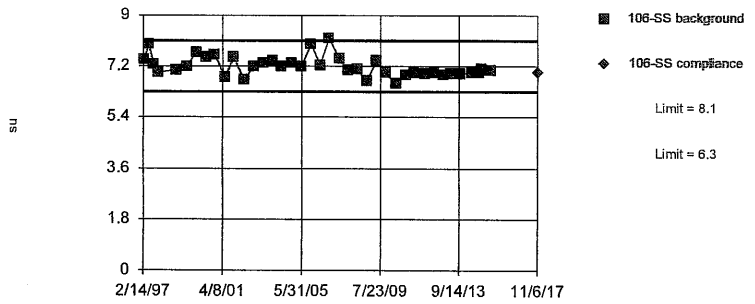
Within Limits

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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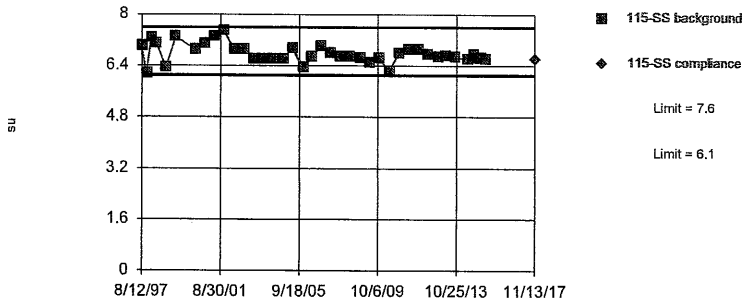
Within Limits

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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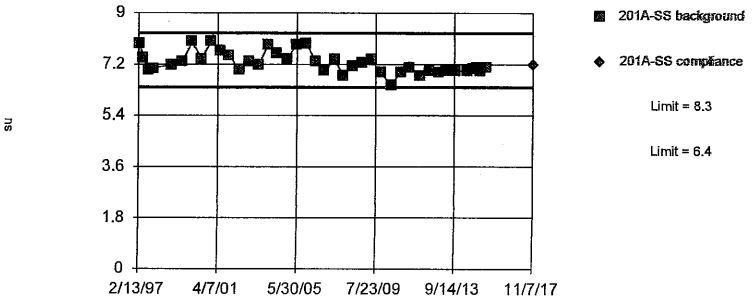
Within Limits

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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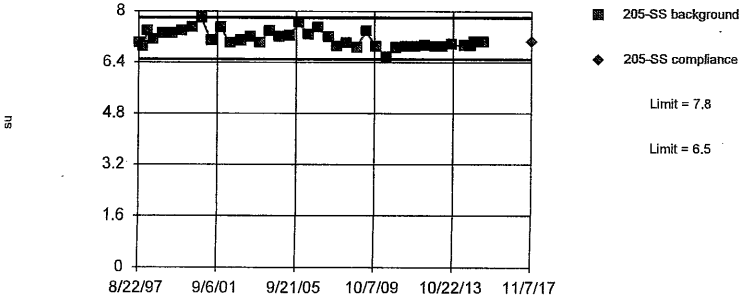
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.964, Std. Dev.=0.03507, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9487, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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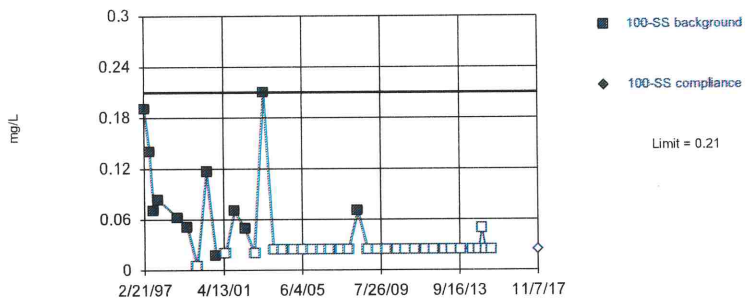
Hollow symbols indicate censored values.

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. 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.

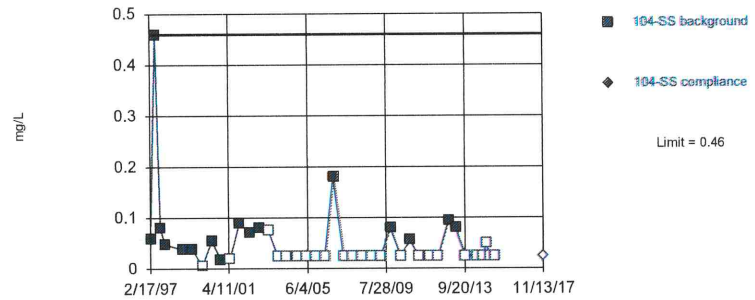
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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. 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.

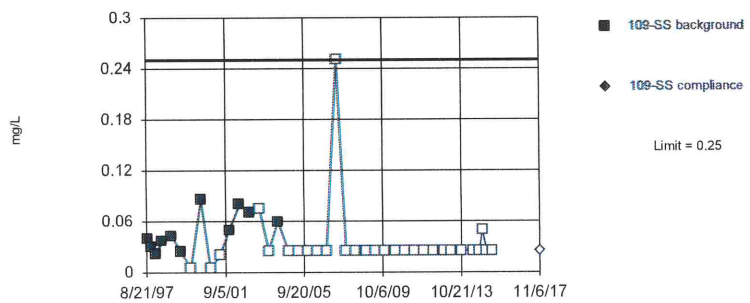
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

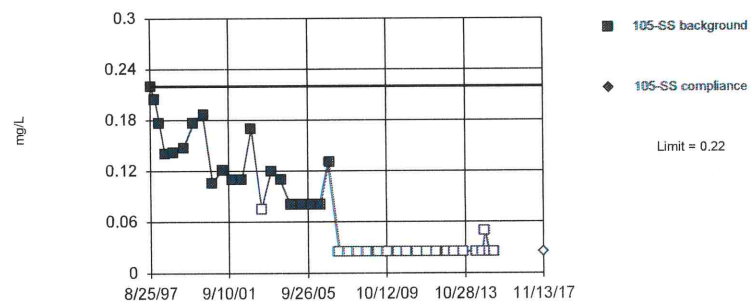
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

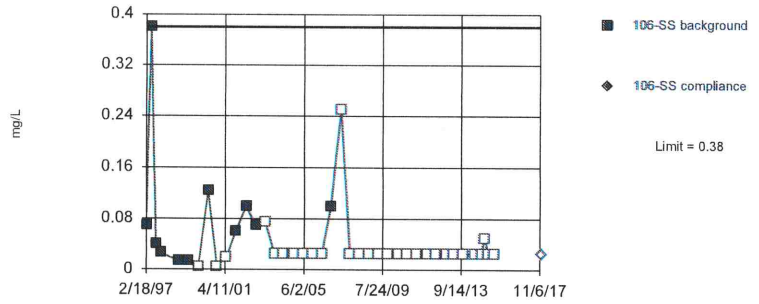
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

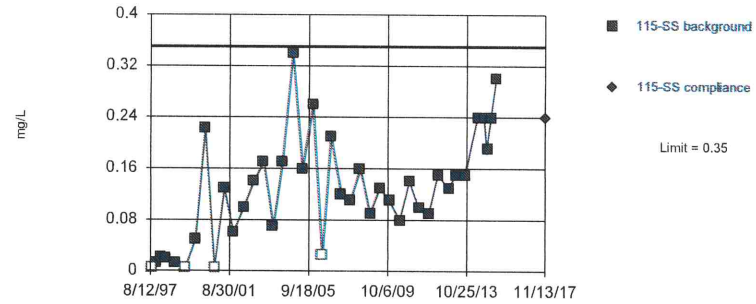
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

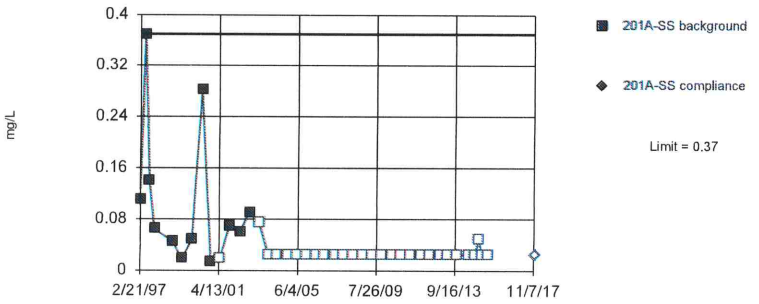
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

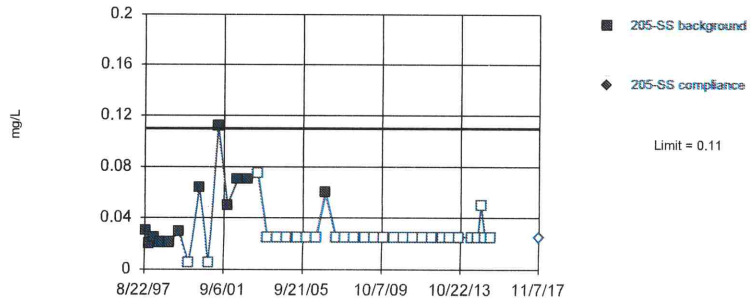
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

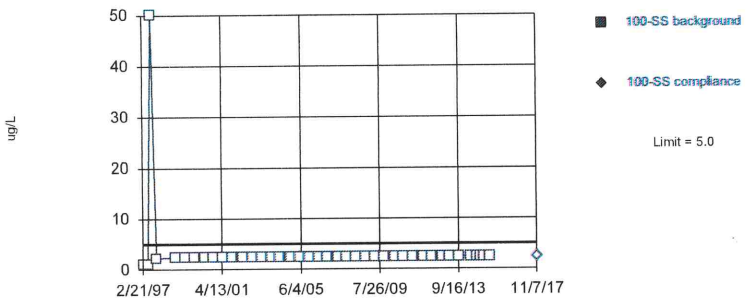
Constituent: Phosphorus Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

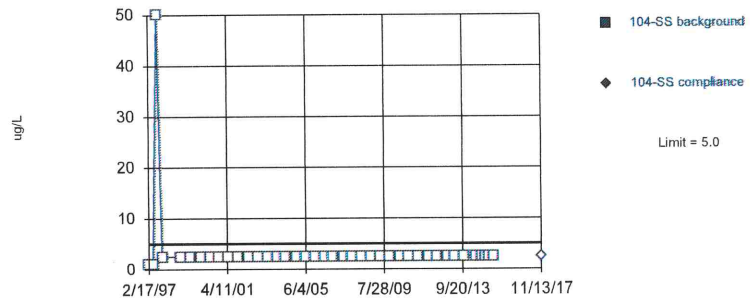
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

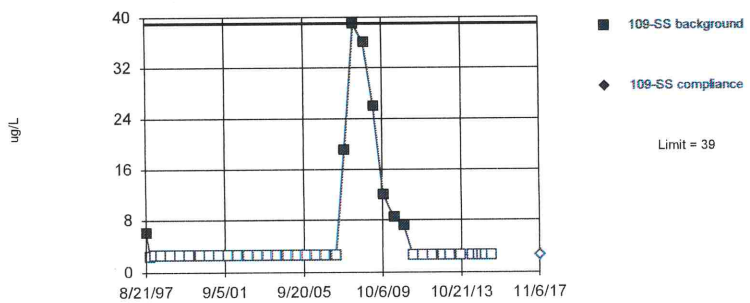
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

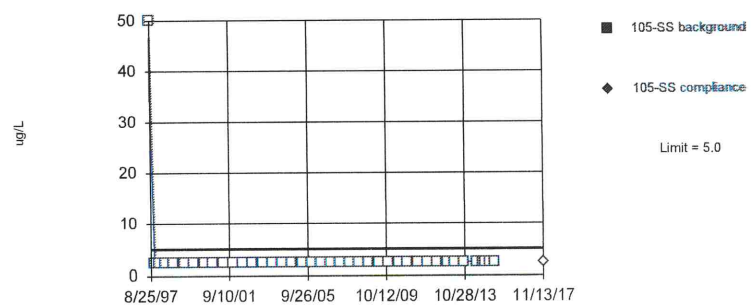
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

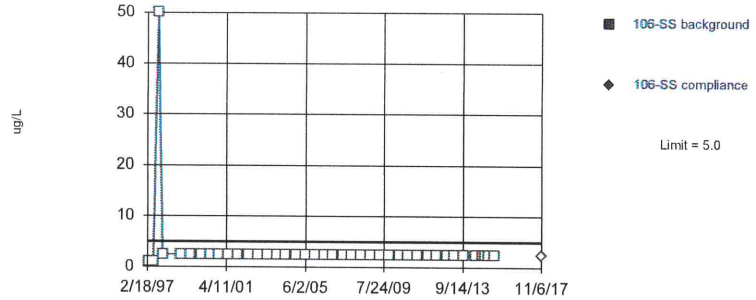
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

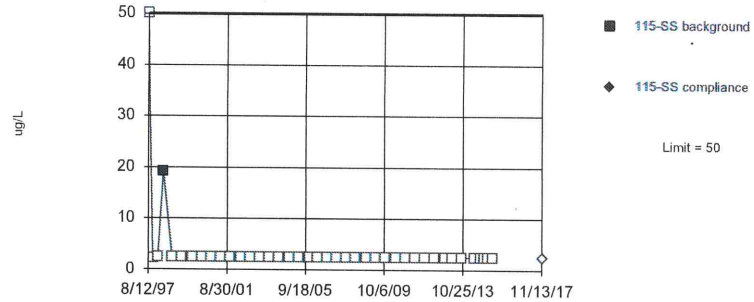
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 9:41 AM

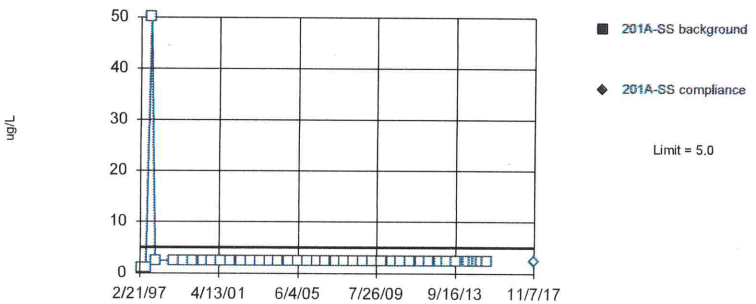
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

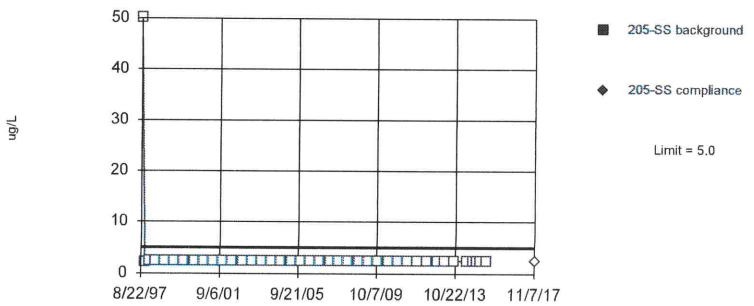
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:41 AM

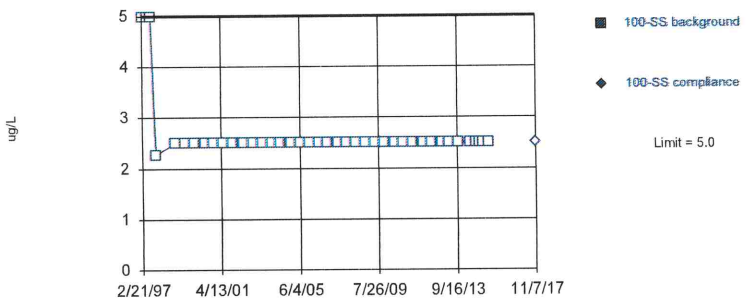
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

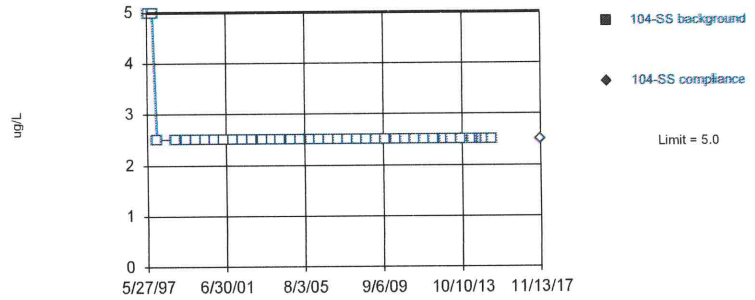
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 39) were censored; limit is most recent reporting limit. 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.

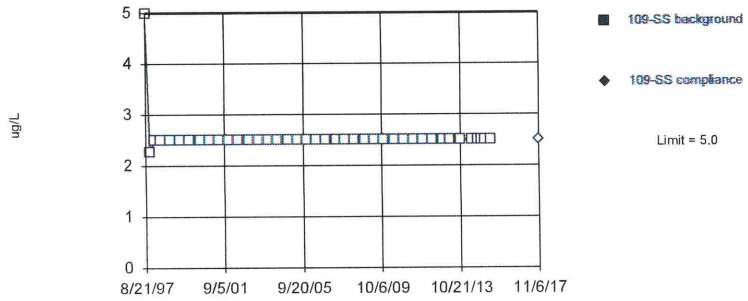
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

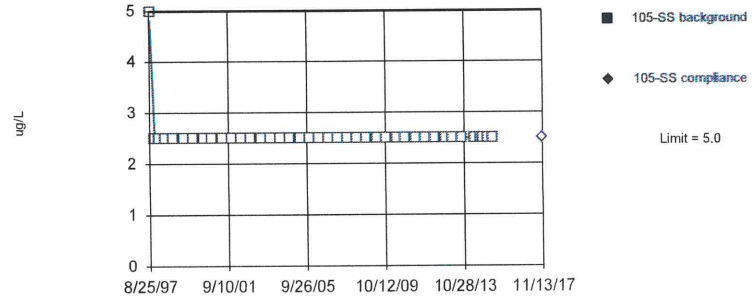
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

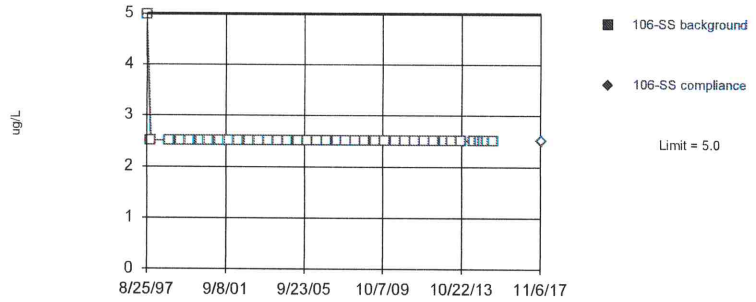
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 38) were censored; limit is most recent reporting limit. 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.

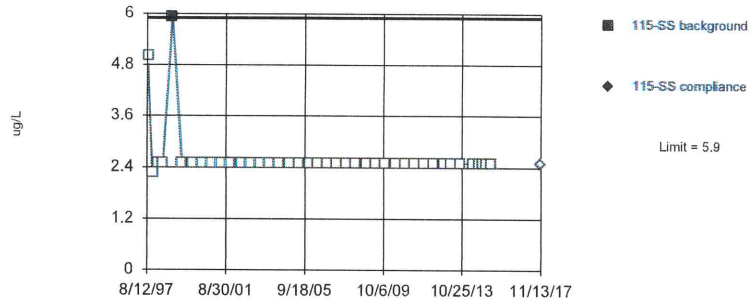
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

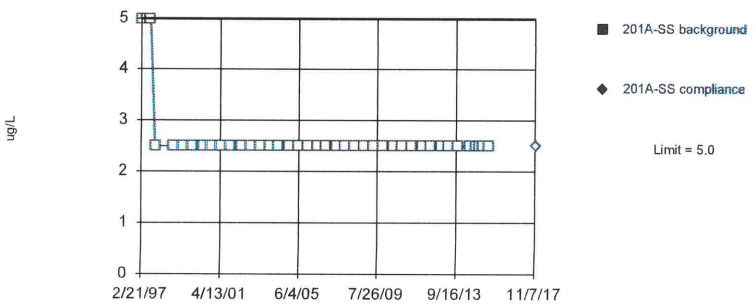
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

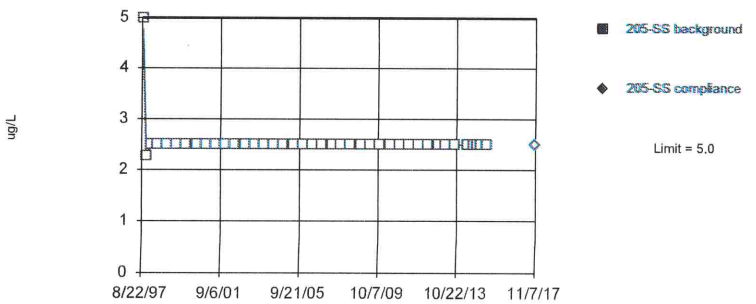
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

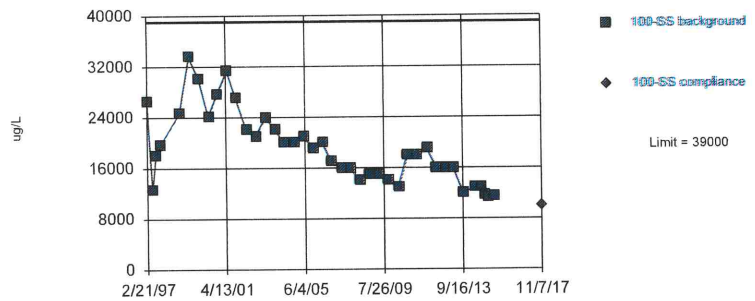
Constituent: Silver Total Analysis Run 12/30/2017 9:41 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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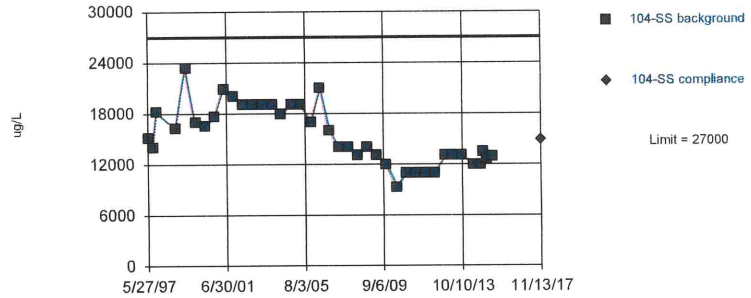
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.617, Std. Dev.=0.2257, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 34800 (2/17/1997).

Constituent: Sodium Total Analysis Run 12/30/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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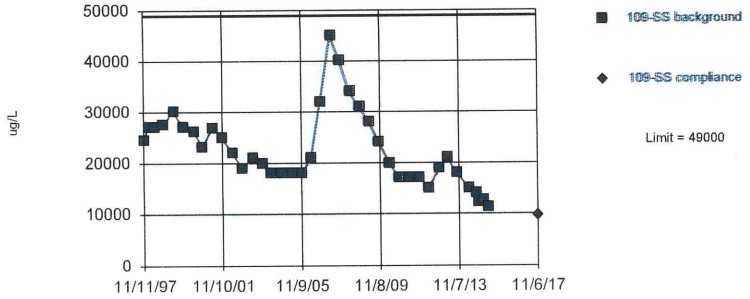
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.978, Std. Dev.=0.3165, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9835, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 68000 (8/21/1997).

Constituent: Sodium Total Analysis Run 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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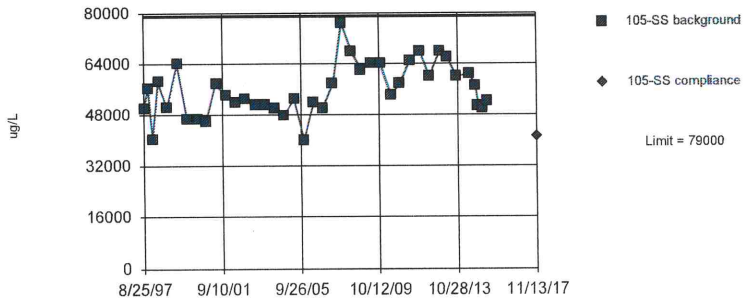
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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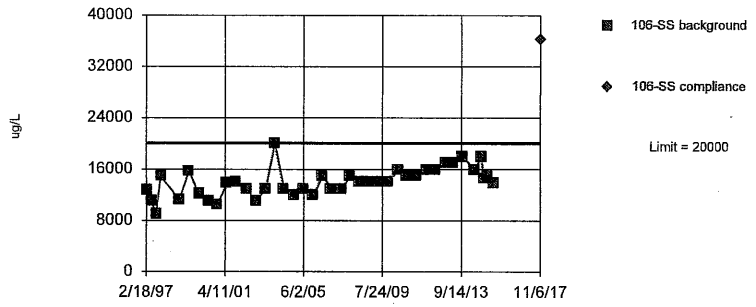
Exceeds Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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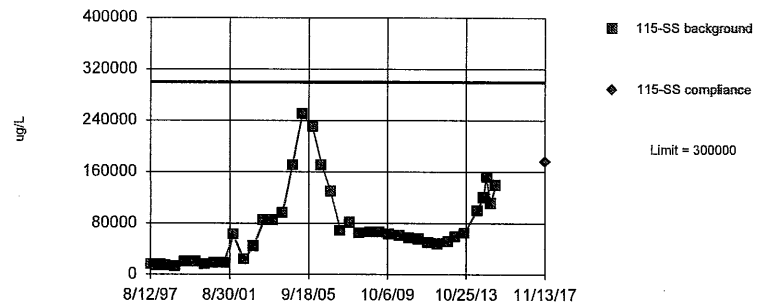
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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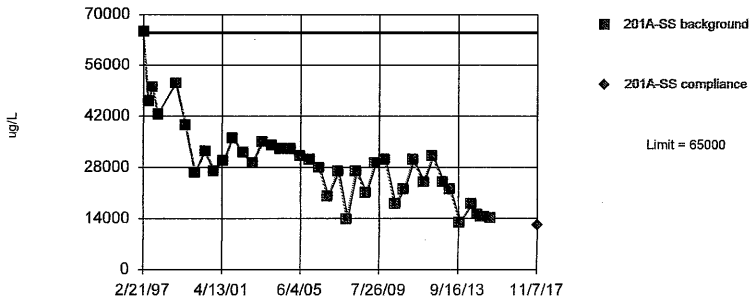
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=30.24, Std. Dev.=3.85, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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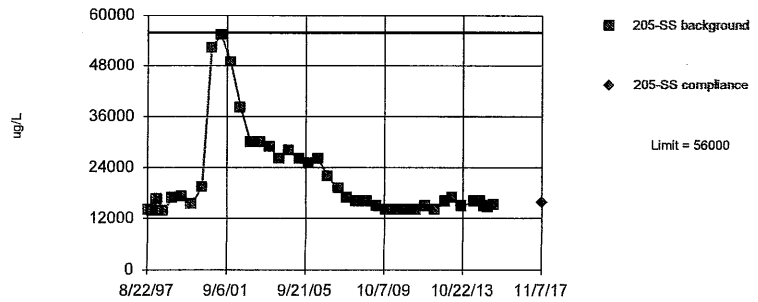
Within Limit

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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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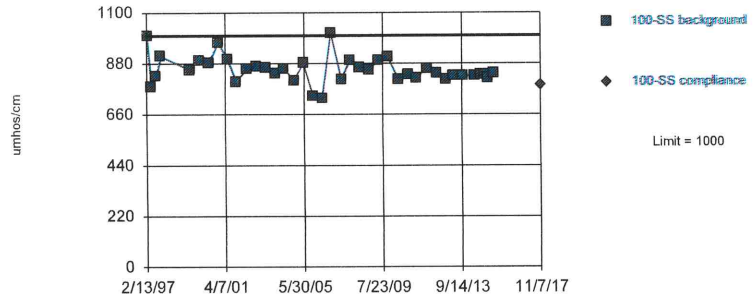
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.746, Std. Dev.=0.06655, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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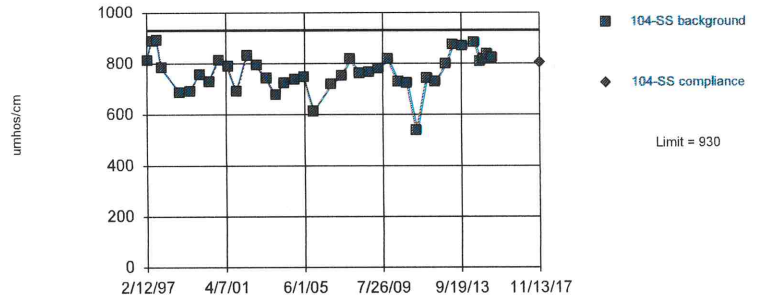
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=4.6e8, Std. Dev.=1.3e8, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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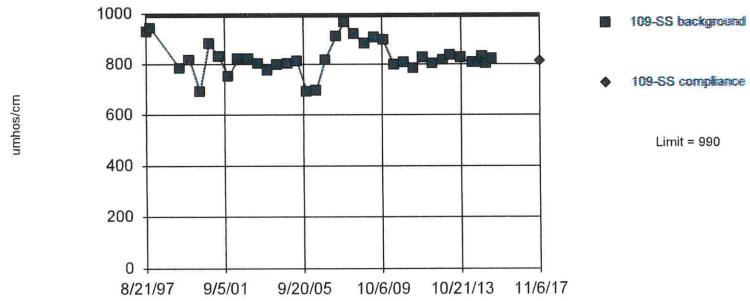
Within Limit

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 = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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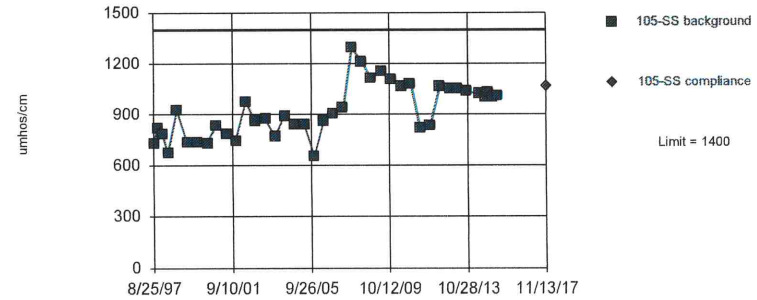
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.811, Std. Dev.=0.1679, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

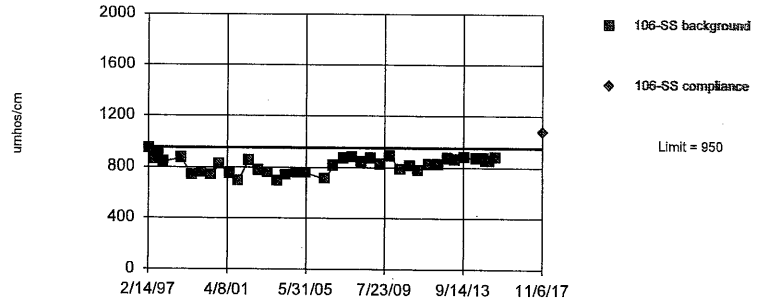
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

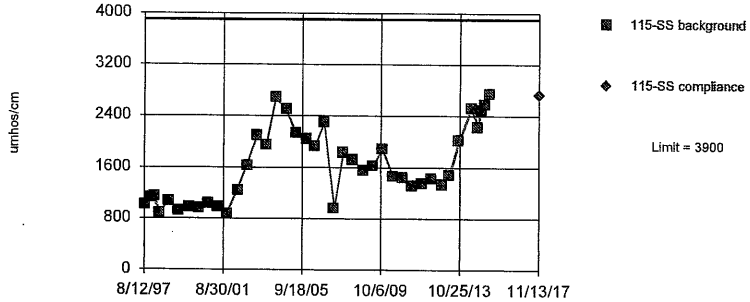
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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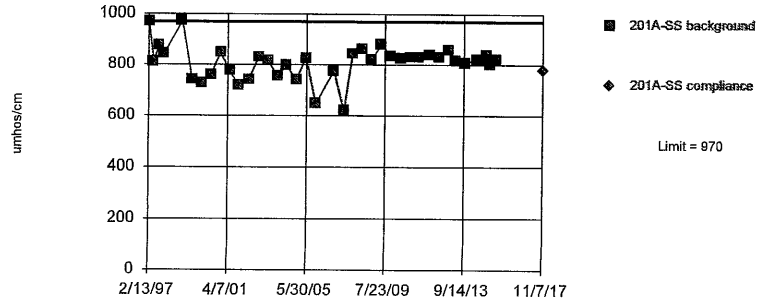
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=660296, Std. Dev.=108124, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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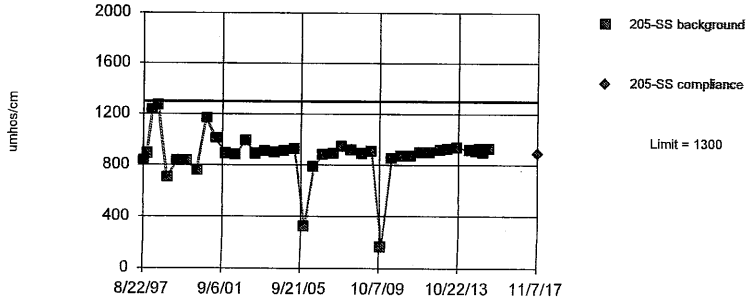
Within Limit

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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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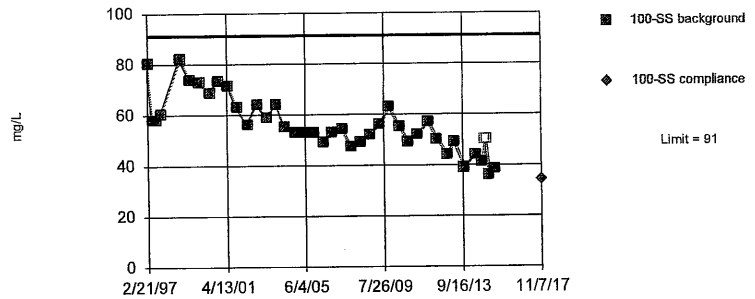
Hollow symbols indicate censored values.

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

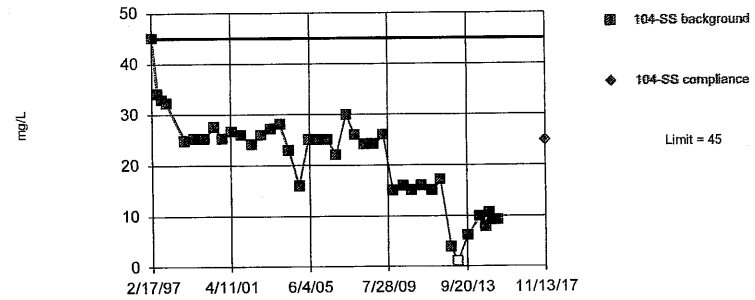
Constituent: Sulfate Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified.

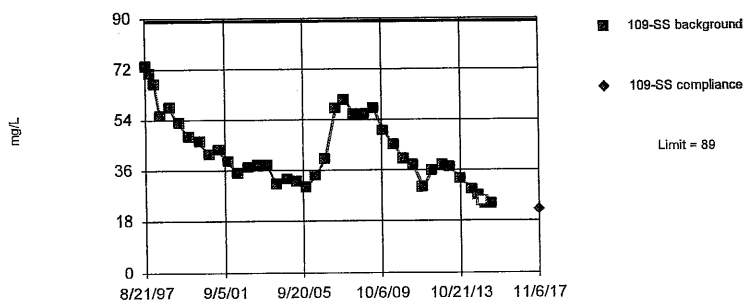
Constituent: Sulfate Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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=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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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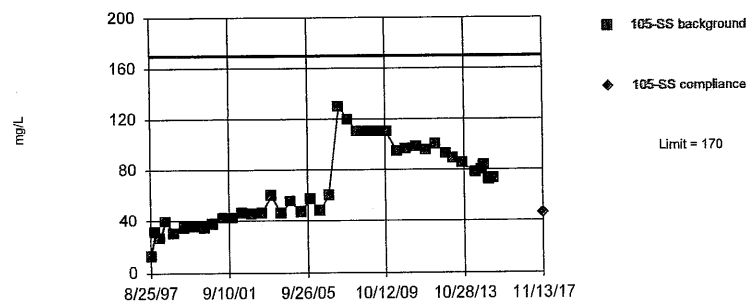
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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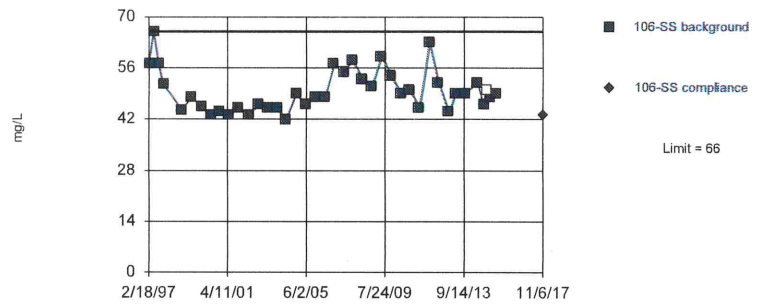
Hollow symbols indicate censored values.

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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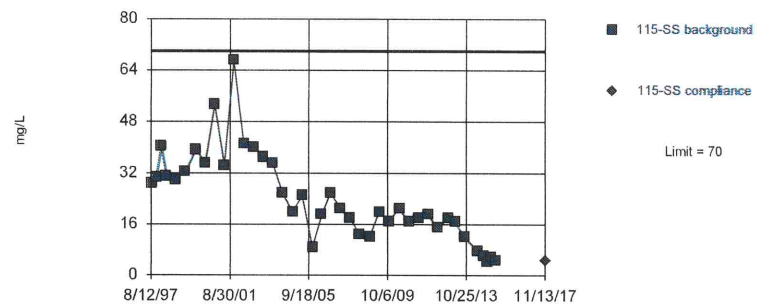
Within Limit

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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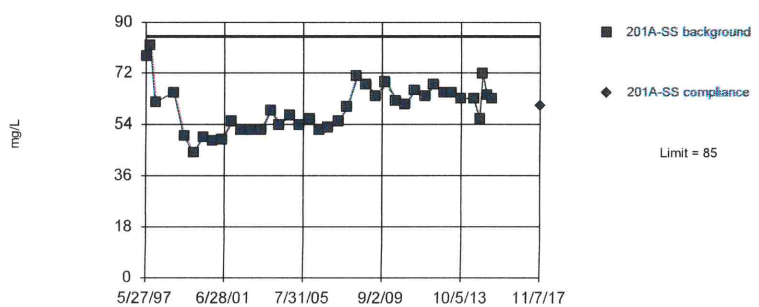
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.087, Std. Dev.=0.1382, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9805, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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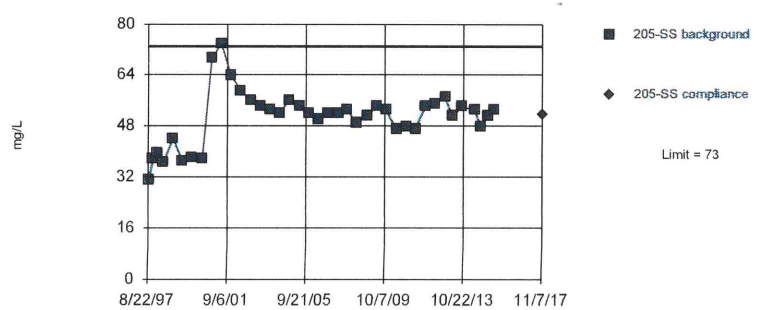
Within Limit

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 109 (11/20/2014).

Constituent: Sulfate Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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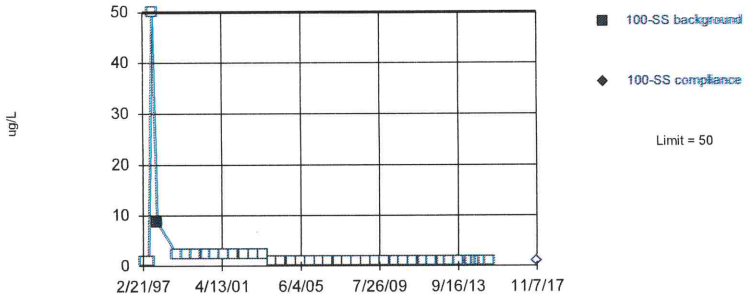
Hollow symbols indicate censored values.

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 12/30/2017 9:42 AM

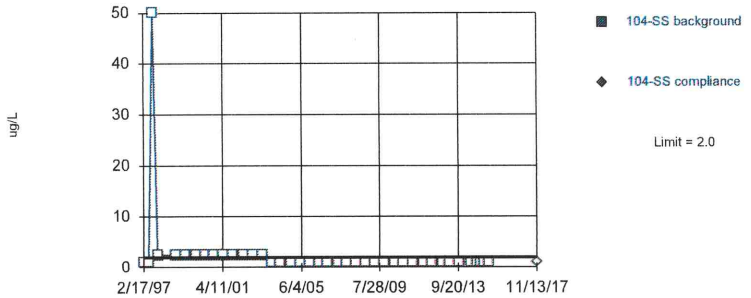
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

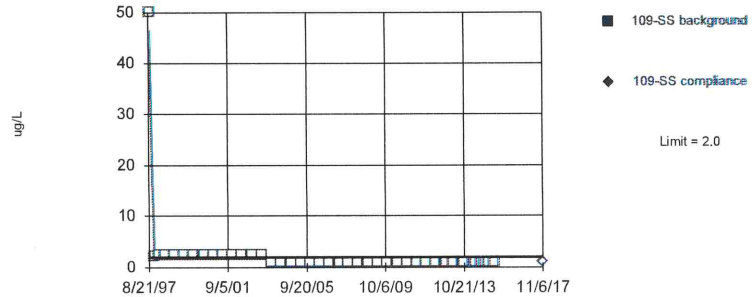
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

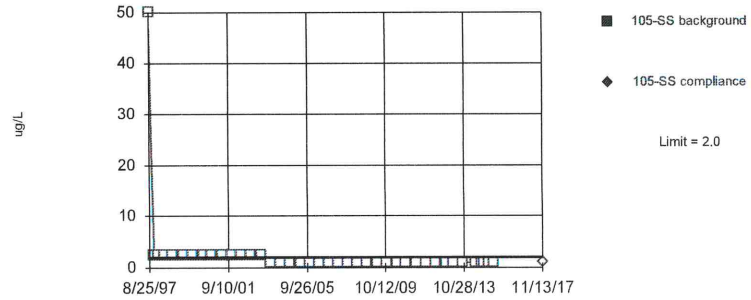
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

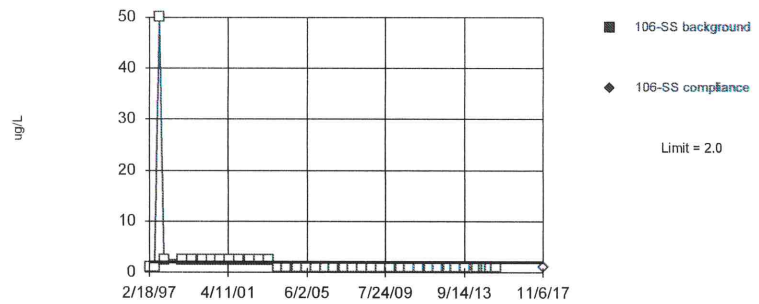
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

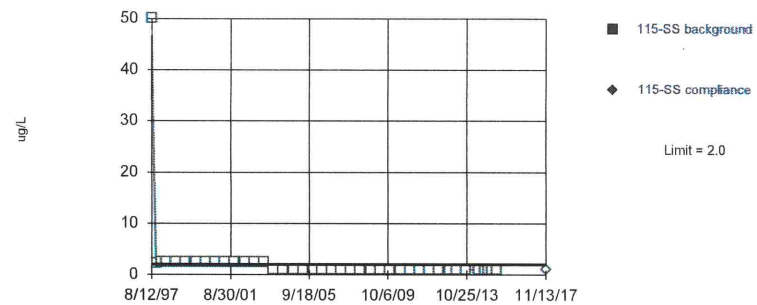
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

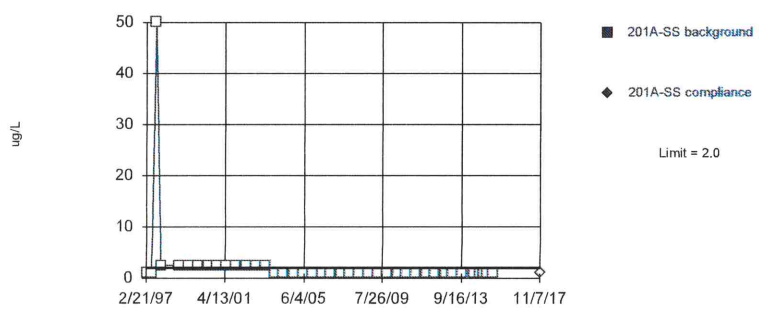
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

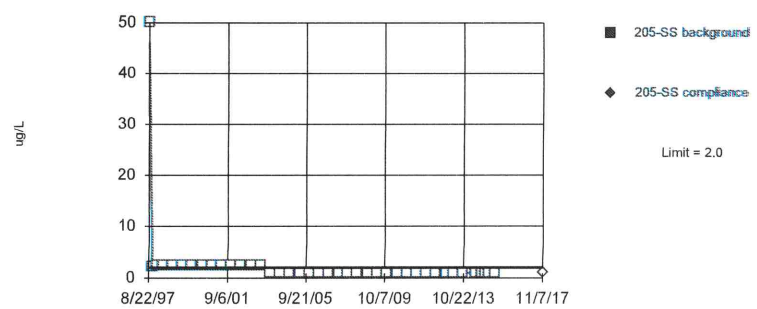
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM

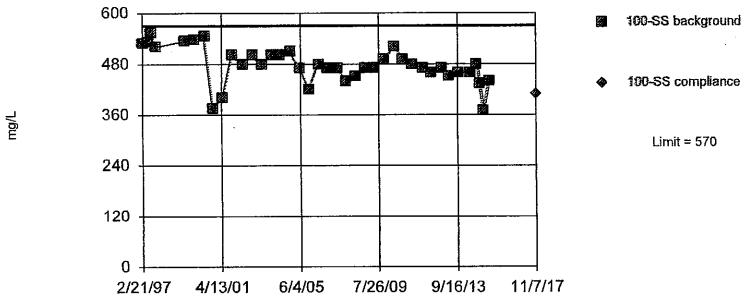
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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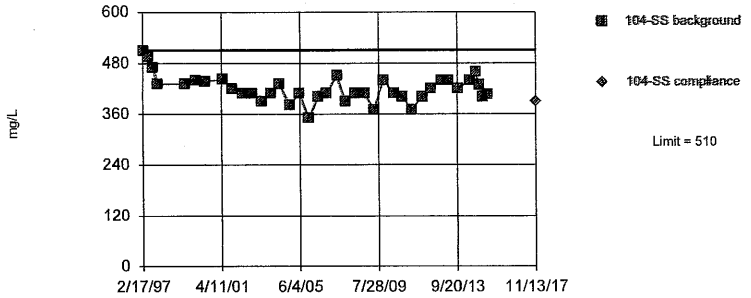
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.039, Std. Dev.=0.07516, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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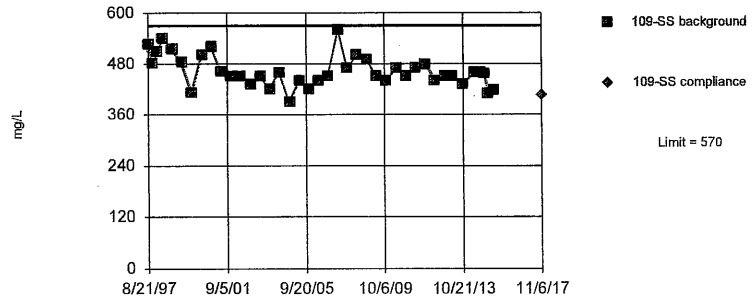
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.134, Std. Dev.=0.07956, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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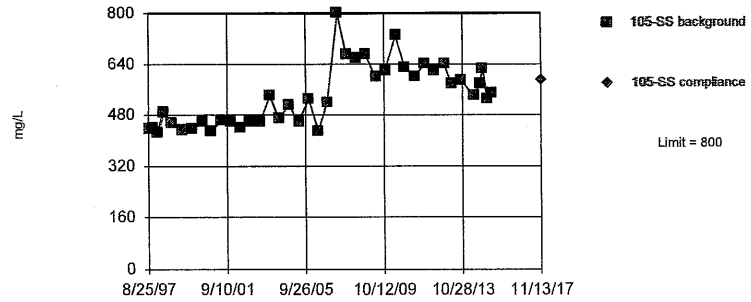
Within Limit

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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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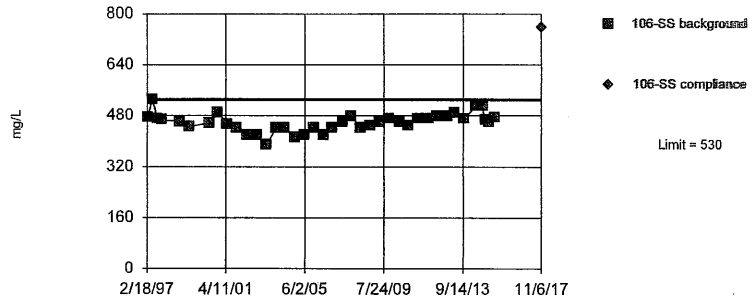
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=21.4, Std. Dev.=0.6626, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9799, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

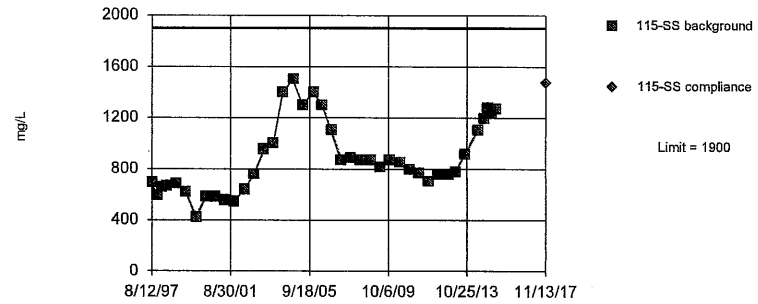
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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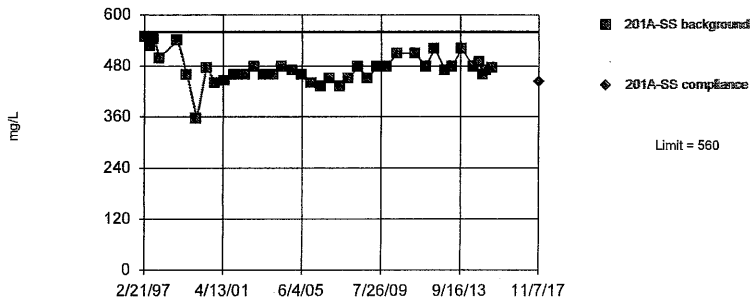
Within Limit

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 = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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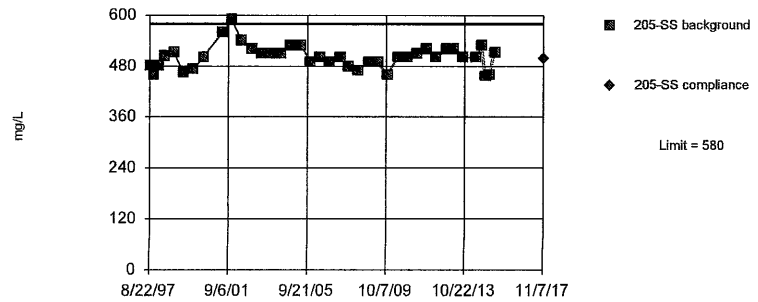
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.217, Std. Dev.=0.05445, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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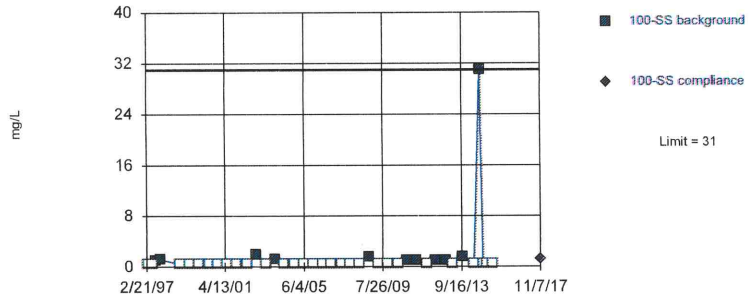
Hollow symbols indicate censored values.

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.

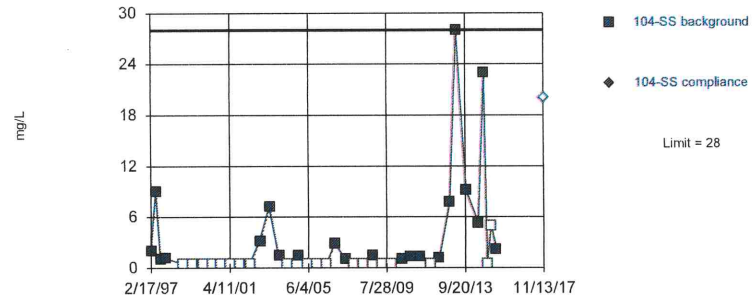
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

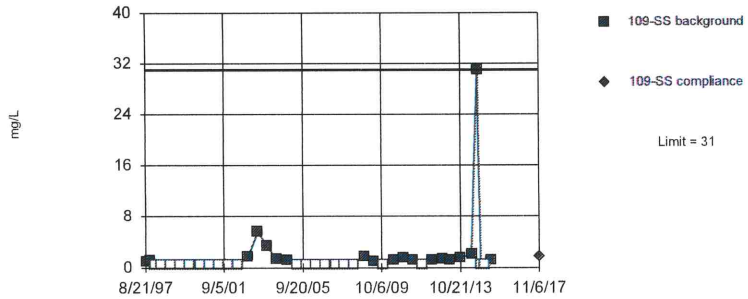
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

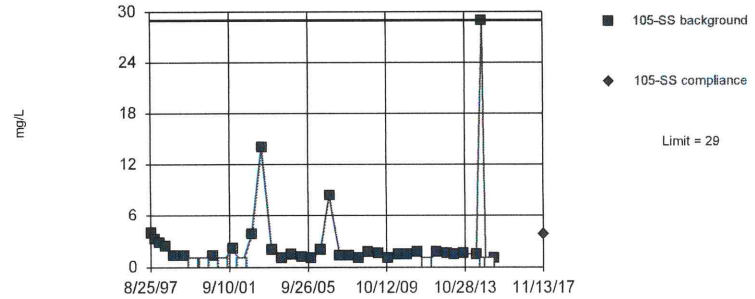
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

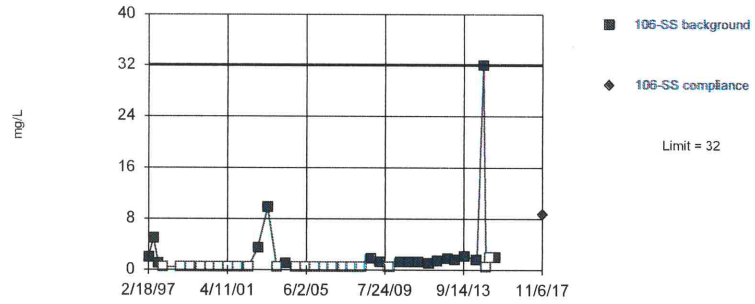
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

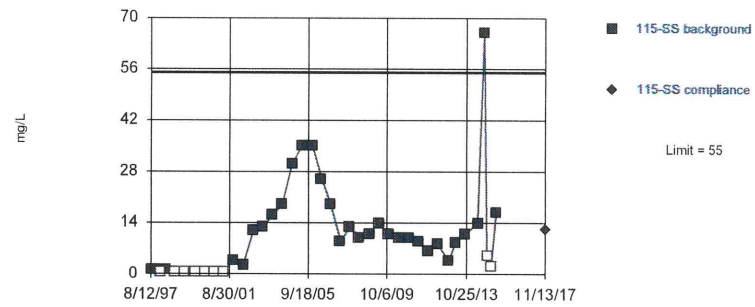
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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) (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 = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

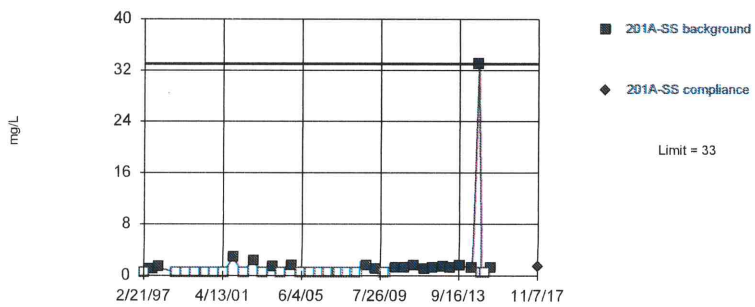
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

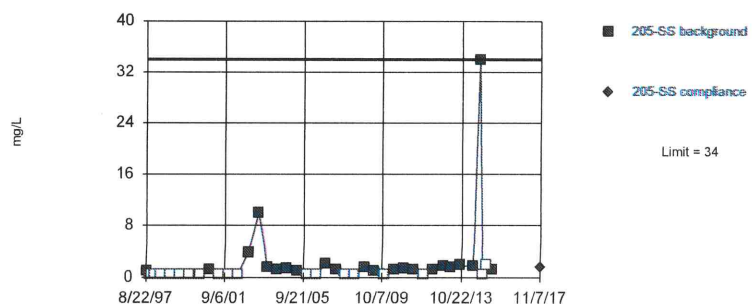
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

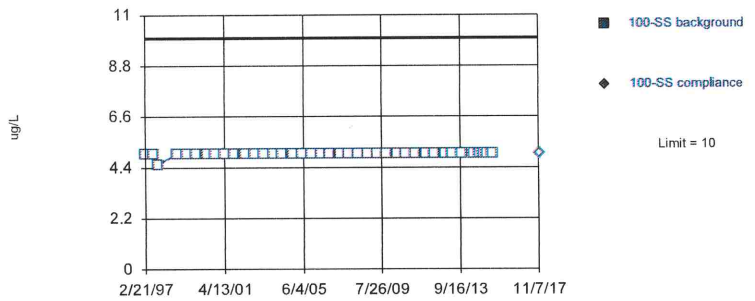
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

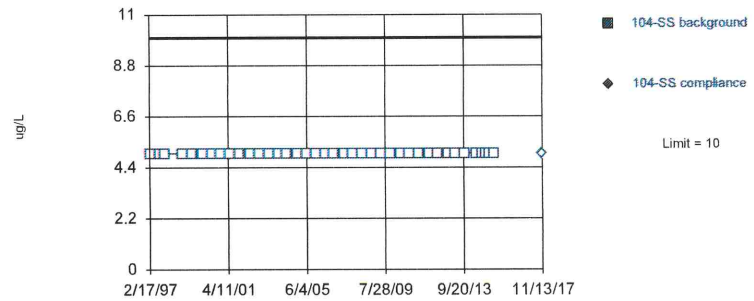
Constituent: Vanadium Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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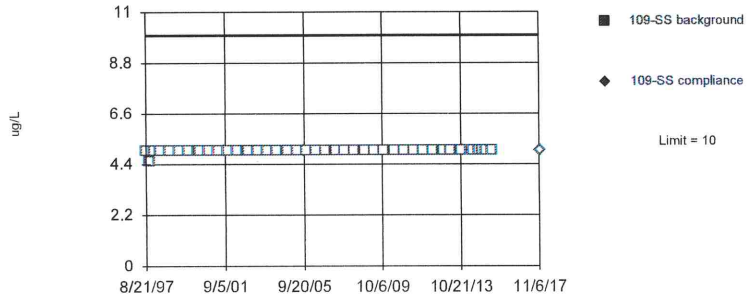
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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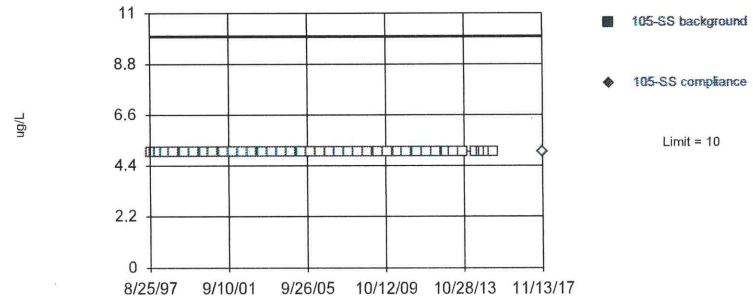
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair 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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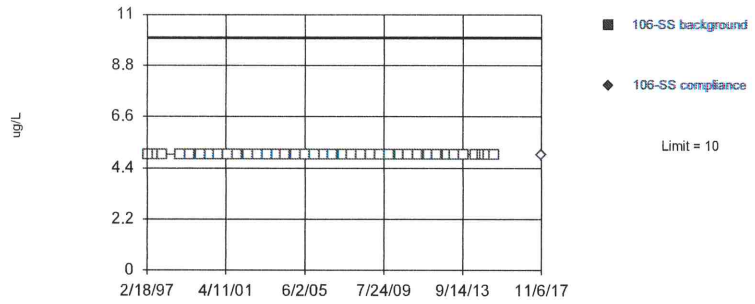
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair 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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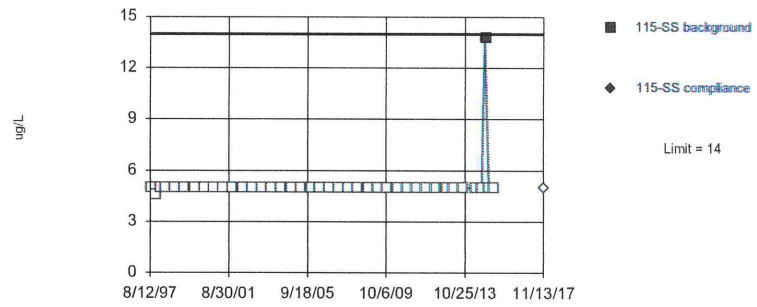
Within Limit

Prediction Limit

Intrawell 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.

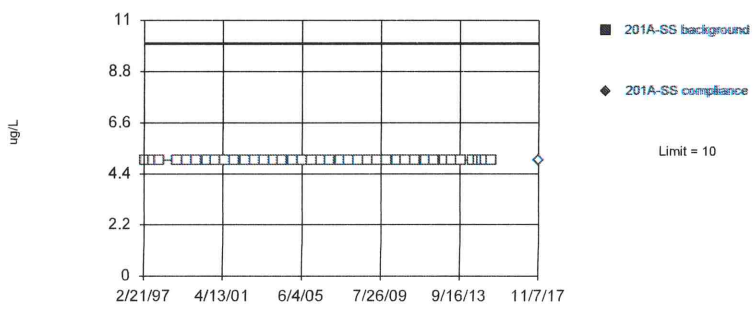
Constituent: Vanadium Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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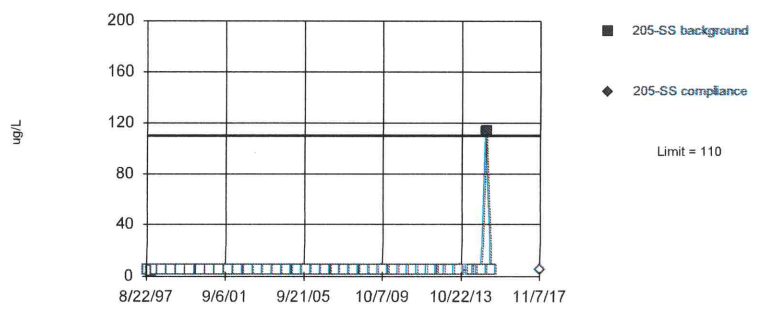
Hollow symbols indicate censored values.

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.

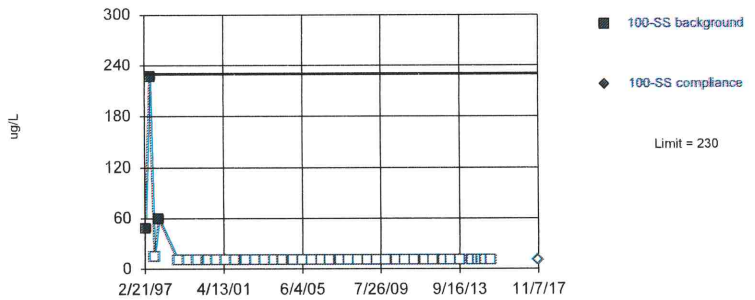
Constituent: Vanadium Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

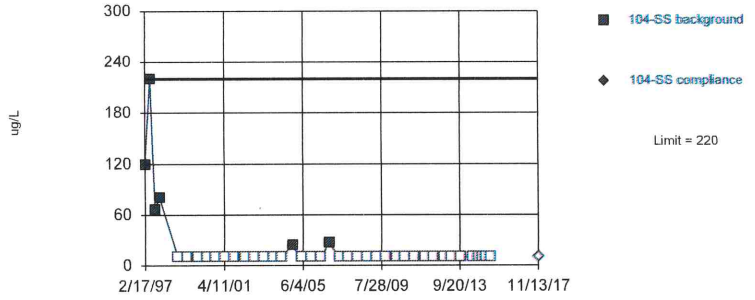
Constituent: Zinc Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Zinc Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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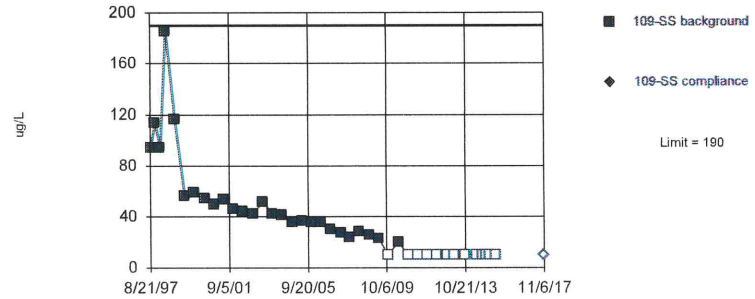
Within Limit

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. 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: Zinc Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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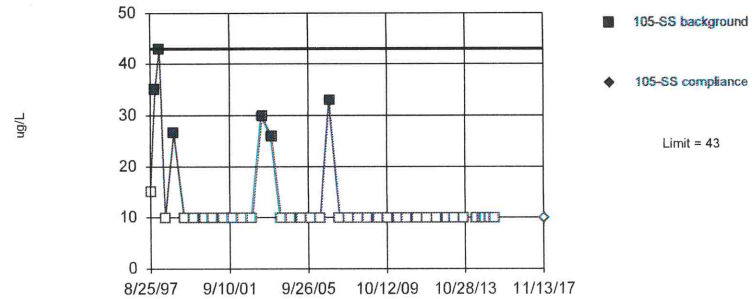
Hollow symbols indicate censored values.

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: Zinc Total Analysis Run 12/30/2017 9:42 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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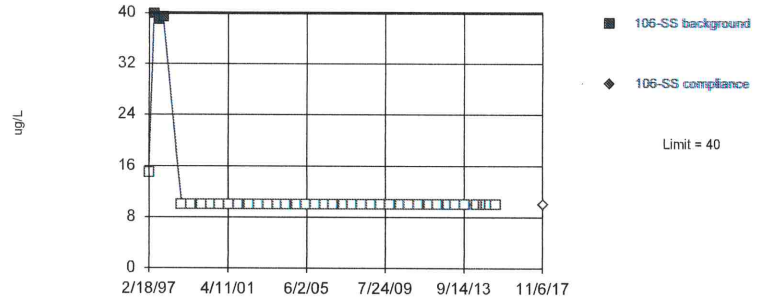
Hollow symbols indicate censored values.

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: Zinc Total Analysis Run 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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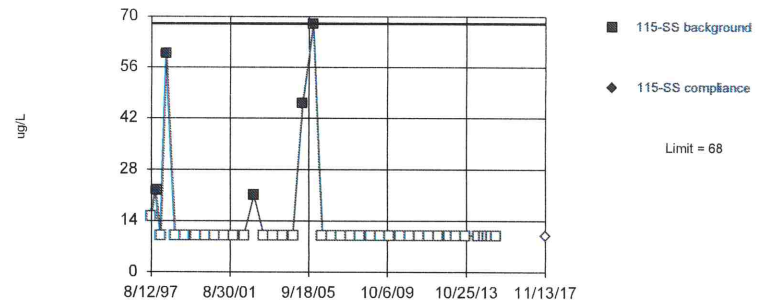
Hollow symbols indicate censored values.

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: Zinc Total Analysis Run 12/30/2017 9:42 AM

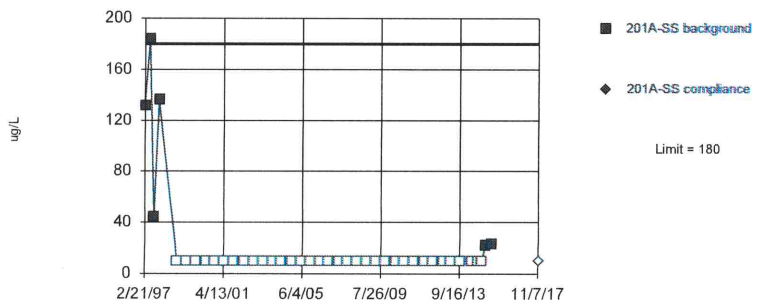
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Zinc Total Analysis Run 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
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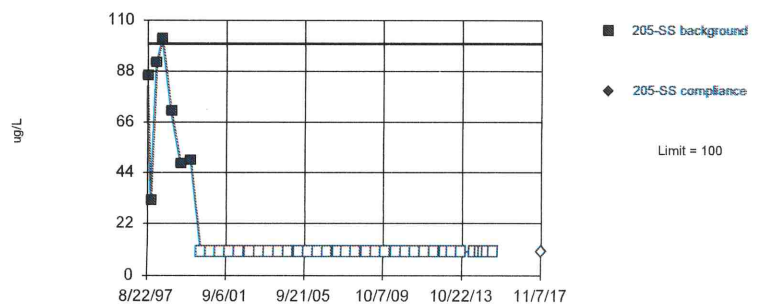
Within Limit

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: Zinc Total Analysis Run 12/30/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 11:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic Total (ug/L)	115-SS	19	n/a	11/13/2017	5.8	No	39	n/a	n/a	56.41	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	104-SS	110	n/a	11/13/2017	103	No	36	8075	1743	0	None	x^2	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	105-SS	190	n/a	11/13/2017	170	No	13	4.594	0.3338	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	115-SS	600	n/a	11/13/2017	488	No	35	228	139.9	0	None	No	0.00009683	Param Intra 1 of 2
Barium Total (ug/L)	205-SS	180	n/a	11/7/2017	143	No	39	n/a	n/a	0	n/a	n/a	0.001219	NP Intra (normality) 1 of 2
Boron Total (ug/L)	100-SS	140	n/a	11/7/2017	113	No	32	1.7e8	9.7e7	12.5	None	x^4	0.00009683	Param Intra 1 of 2
Boron Total (ug/L)	104-SS	160	n/a	11/13/2017	135	No	20	n/a	n/a	40	n/a	n/a	0.004219	NP Intra (normality) 1 of 2
Boron Total (ug/L)	115-SS	1000	n/a	11/13/2017	453	No	36	n/a	n/a	30.56	n/a	n/a	0.00142	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	**105-SS**	**86000**	**n/a**	**11/13/2017**	**100000**	**Yes**	**11**	**11.08**	**0.07786**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Calcium Total (ug/L)	**106-SS**	**110000**	**n/a**	**11/6/2017**	**117000**	**Yes**	**29**	**11.46**	**0.06699**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Calcium Total (ug/L)	115-SS	350000	n/a	11/13/2017	214000	No	36	11.89	0.3286	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	201A-SS	100000	n/a	11/7/2017	91900	No	22	85186	6232	0	None	No	0.00009683	Param Intra 1 of 2
Calcium Total (ug/L)	**205-SS**	**100000**	**n/a**	**11/7/2017**	**104000**	**Yes**	**27**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002475**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	104-SS	5.0	n/a	11/13/2017	4.2	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**	**25**	**n/a**	**11/13/2017**	**75.5**	**Yes**	**7**	**2.586**	**0.1213**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Chloride (mg/L)	**106-SS**	**17**	**n/a**	**11/6/2017**	**52.5**	**Yes**	**29**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002152**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	115-SS	670	n/a	11/13/2017	487	No	37	13.59	4.687	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Chloride (mg/L)	**201A-SS**	**4.0**	**n/a**	**11/7/2017**	**4.1**	**Yes**	**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	11/7/2017	32	No	32	2.998	0.2584	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	109-SS	2.6	n/a	11/6/2017	2.3	No	23	4.319	0.8498	0	None	x^2	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	105-SS	510	n/a	11/13/2017	471	No	15	5.79	0.1385	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	**106-SS**	**500**	**n/a**	**11/6/2017**	**515**	**Yes**	**29**	**20.59**	**0.6924**	**0**	**None**	**sqrt(x)**	**0.00009683**	**Param Intra 1 of 2**
Hardness Total (mg/L)	115-SS	1500	n/a	11/13/2017	950	No	35	6.483	0.3251	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	201A-SS	500	n/a	11/7/2017	417	No	21	19.72	0.9201	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	205-SS	520	n/a	11/7/2017	487	No	23	8.0e15	3.9e15	0	None	x^6	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	**106-SS**	**1400**	**n/a**	**11/6/2017**	**2820**	**Yes**	**26**	**5.605**	**0.5835**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Iron Total (ug/L)	115-SS	7200	n/a	11/13/2017	2940	No	24	n/a	n/a	0	n/a	n/a	0.003083	NP Intra (normality) 1 of 2
Magnesium Total (ug/L)	104-SS	55000	n/a	11/13/2017	48500	No	32	1.1e14	2.3e13	0	None	x^3	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	**105-SS**	**47000**	**n/a**	**11/13/2017**	**53400**	**Yes**	**11**	**10.46**	**0.07764**	**0**	**None**	**ln(x)**	**0.00009683**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	106-SS	54000	n/a	11/6/2017	54000	No	25	10.69	0.07281	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	115-SS	140000	n/a	11/13/2017	101000	No	37	11.23	0.2383	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	201A-SS	51000	n/a	11/7/2017	45700	No	13	10.57	0.08112	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Magnesium Total (ug/L)	205-SS	64000	n/a	11/7/2017	55200	No	17	224	9.563	0	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Manganese Total (ug/L)	**115-SS**	**19**	**n/a**	**11/13/2017**	**74.6**	**Yes**	**11**	**8.983**	**2.739**	**9.091**	**None**	**No**	**0.00009683**	**Param Intra 1 of 2**
Nickel Total (ug/L)	115-SS	140	n/a	11/13/2017	68.4	No	37	n/a	n/a	32.43	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Nitrate/Nitrite (mg/L)	**201A-SS**	**0.33**	**n/a**	**11/7/2017**	**0.38**	**Yes**	**27**	**n/a**	**n/a**	**66.67**	**n/a**	**n/a**	**0.002475**	**NP Intra (NDs) 1 of 2**
pH [Field] (su)	104-SS	8.5	6.2	11/13/2017	6.57	No	35	1.983	0.05825	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	105-SS	8.3	6.7	11/13/2017	7.02	No	32	2.012	0.04035	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	106-SS	8.3	6.3	11/6/2017	6.95	No	31	1.98	0.05226	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	201A-SS	8.5	6.4	11/7/2017	7.18	No	30	1.993	0.05282	0	None	ln(x)	0.00004842	Param Intra 1 of 2
pH [Field] (su)	205-SS	7.9	6.5	11/7/2017	7.04	No	32	1.969	0.03712	0	None	ln(x)	0.00004842	Param Intra 1 of 2
Phosphorus Total (mg/L)	115-SS	0.44	n/a	11/13/2017	0.24	No	31	0.2985	0.1361	12.9	None	sqrt(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	105-SS	68000	n/a	11/13/2017	41200	No	22	51318	5662	0	None	No	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	**106-SS**	**17000**	**n/a**	**11/6/2017**	**36200**	**Yes**	**26**	**1.7e8**	**4.0e7**	**0**	**None**	**x^2**	**0.00009683**	**Param Intra 1 of 2**
Sodium Total (ug/L)	115-SS	450000	n/a	11/13/2017	176000	No	36	10.8	0.8428	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	105-SS	1400	n/a	11/13/2017	1067	No	40	6.811	0.1679	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	115-SS	3900	n/a	11/13/2017	2730	No	40	7.338	0.3579	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	105-SS	47	n/a	11/13/2017	45.7	No	8	40346	14371	0	None	x^3	0.00009683	Param Intra 1 of 2
Sulfate (mg/L)	201A-SS	86	n/a	11/7/2017	60.6	No	37	4.083	0.141	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**105-SS**	**540**	**n/a**	**11/13/2017**	**589**	**Yes**	**20**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004219**	**NP Intra (normality) 1 of 2**

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 11:53 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	115-SS	1800	n/a	11/13/2017	1470	No	37	6.71	0.3007	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SS	32	n/a	11/6/2017	8.7	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)	205-SS	10	n/a	11/7/2017	1.6	No	34	n/a	n/a	47.06	n/a	n/a	0.001587	NP Intra (normality) 1 of 2

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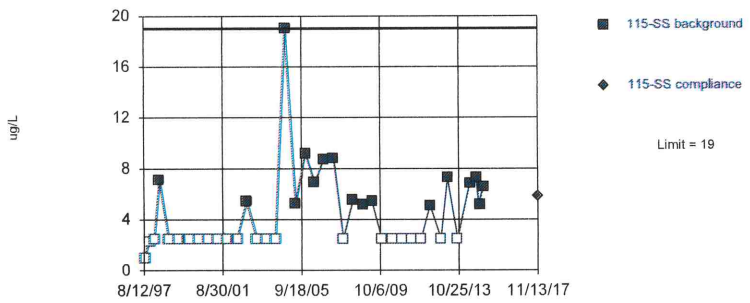
Hollow symbols indicate censored values.

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 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 12/30/2017 9:48 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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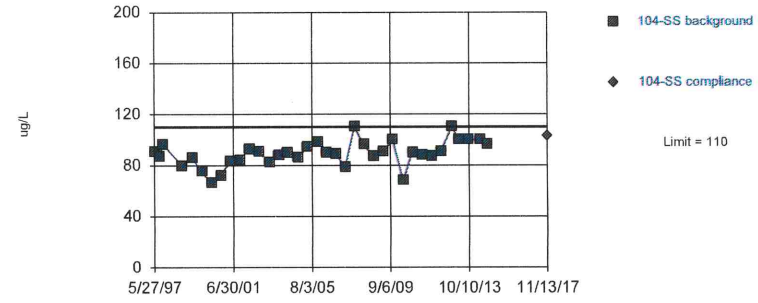
Within Limit

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 = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 12/30/2017 9:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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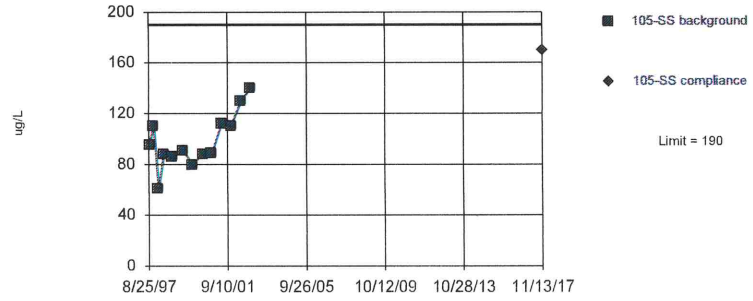
Within Limit

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 = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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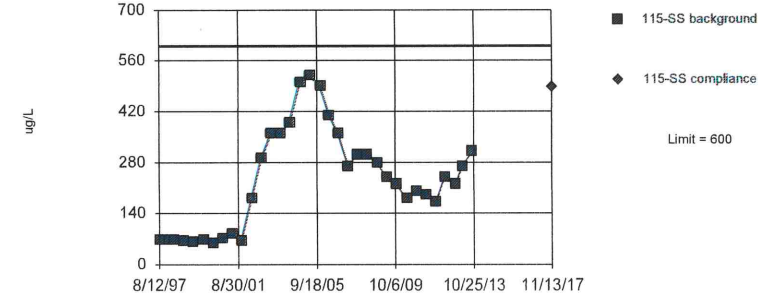
Within Limit

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 = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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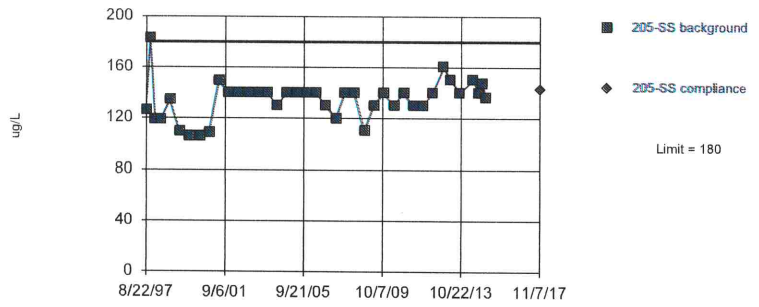
Within Limit

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 12/30/2017 9:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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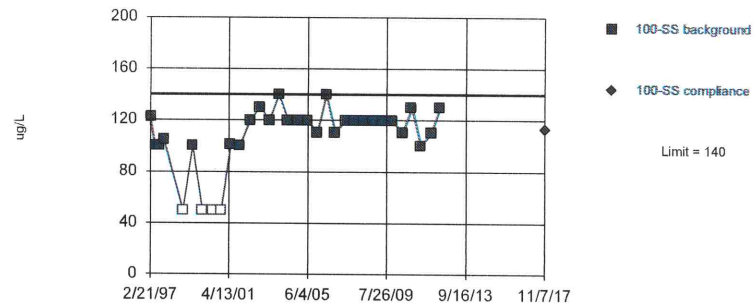
Hollow symbols indicate censored values.

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 = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 12/30/2017 9:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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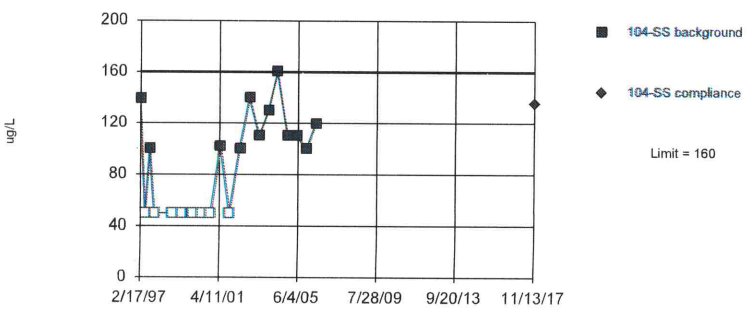
Hollow symbols indicate censored values.

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 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 12/30/2017 9:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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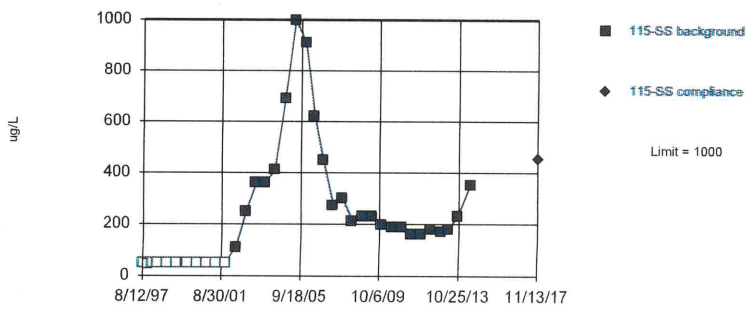
Hollow symbols indicate censored values.

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 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 12/30/2017 9:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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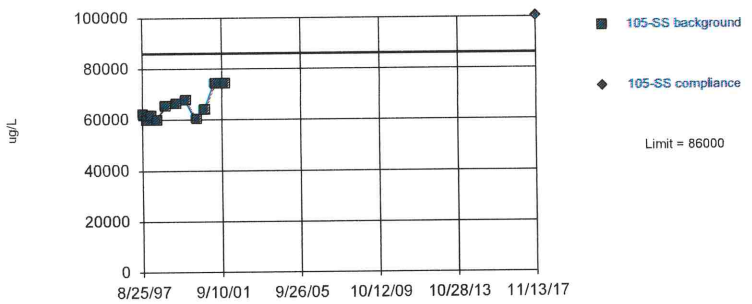
Exceeds Limit

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 = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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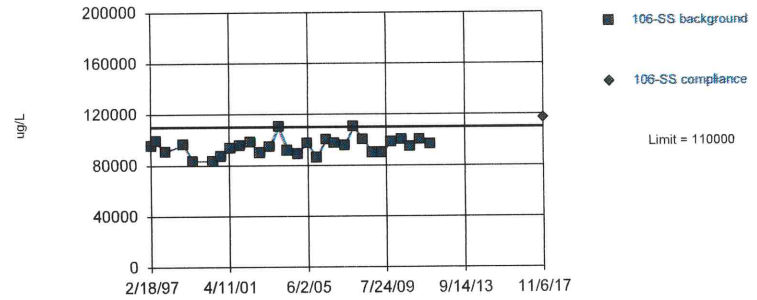
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.06699, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:53 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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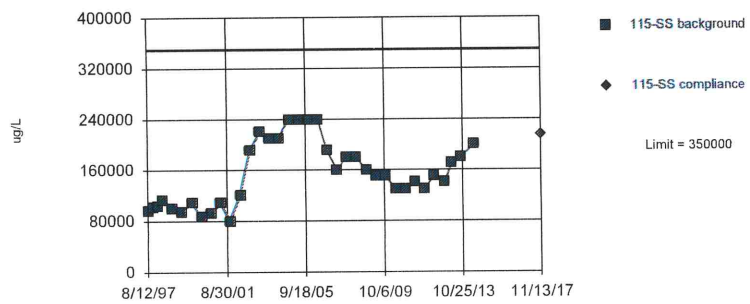
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.89, Std. Dev.=0.3286, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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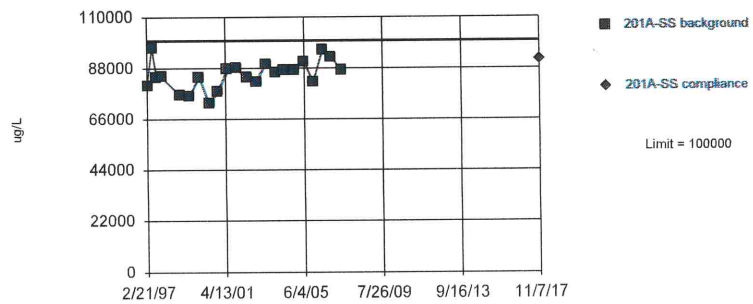
Within Limit

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 = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:54 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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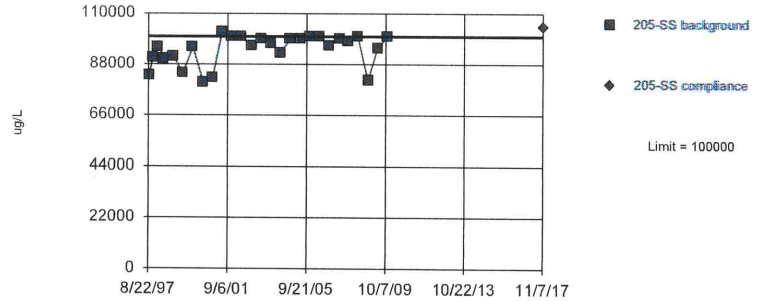
Exceeds Limit

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 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 12/30/2017 9:55 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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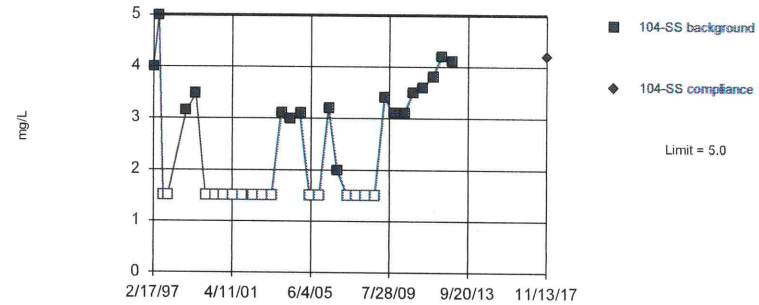
Hollow symbols indicate censored values.

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 12/30/2017 9:55 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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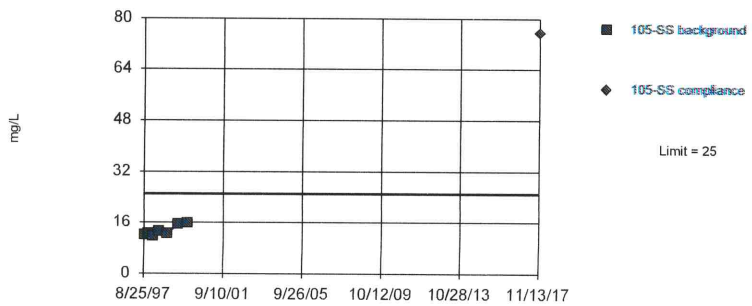
Exceeds Limit

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 = 5.312 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 9:55 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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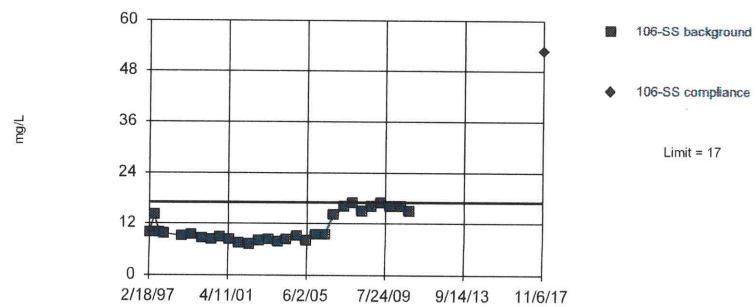
Exceeds Limit

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 12/30/2017 9:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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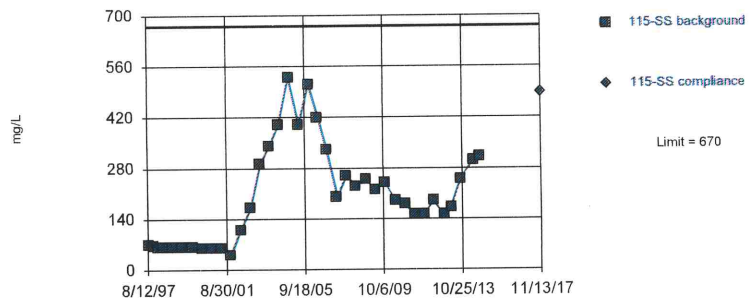
Within Limit

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 = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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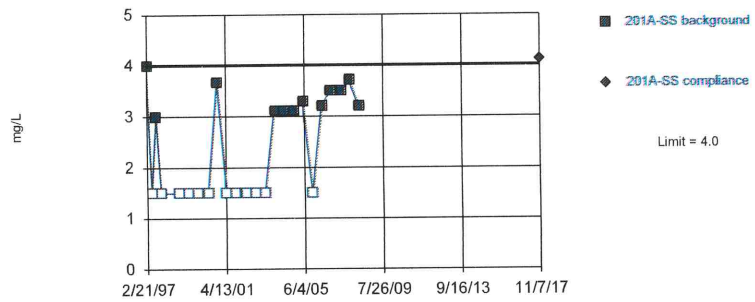
Hollow symbols indicate censored values.

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 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 12/30/2017 11:36 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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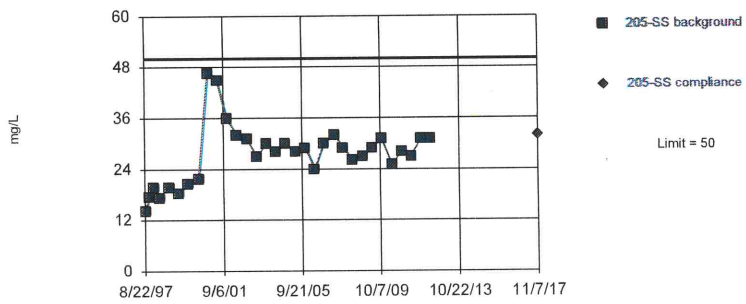
Within Limit

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 = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:36 AM

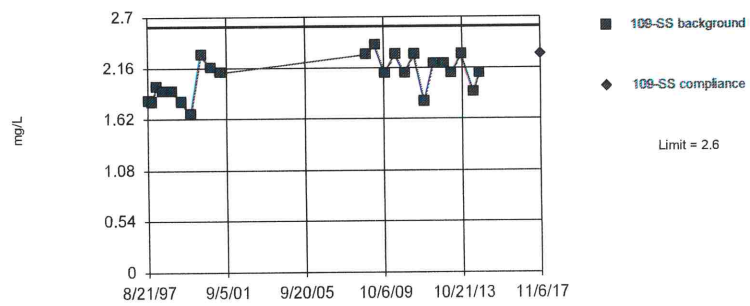
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

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 = 2.839 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:36 AM

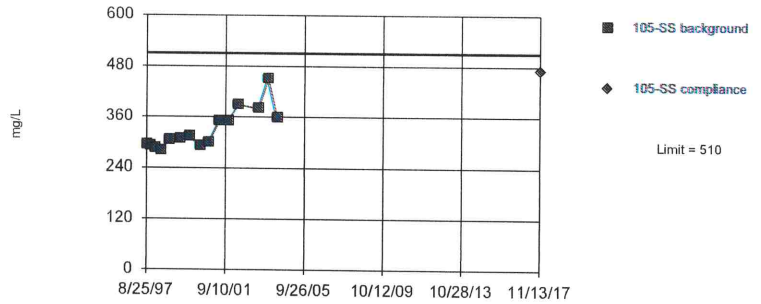
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 3.211 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 11:37 AM

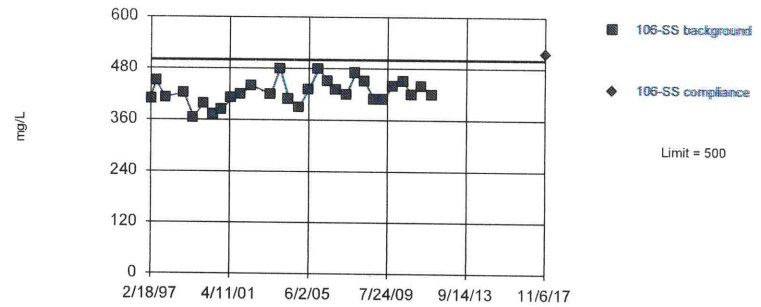
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Exceeds 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 = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:37 AM

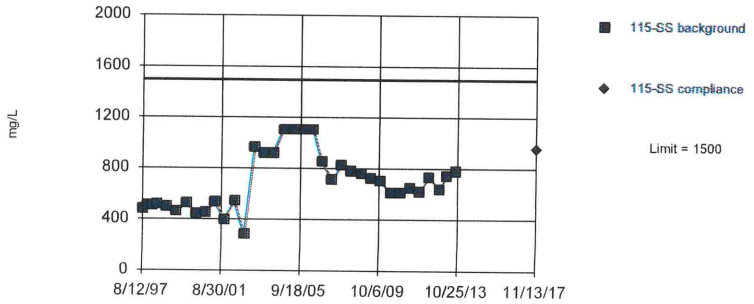
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:37 AM

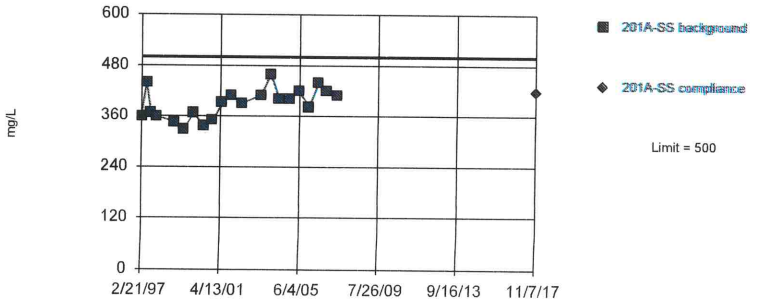
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.896 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 12/30/2017 11:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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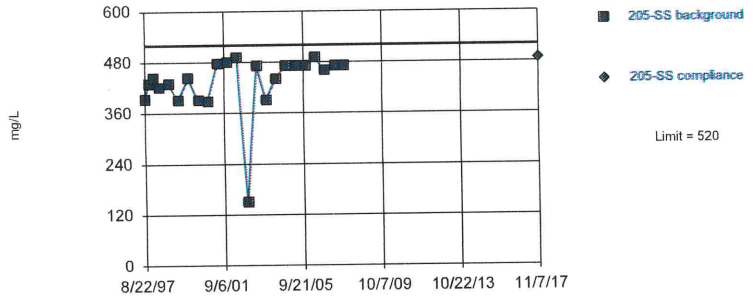
Within Limit

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 = 2.839 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 12/30/2017 11:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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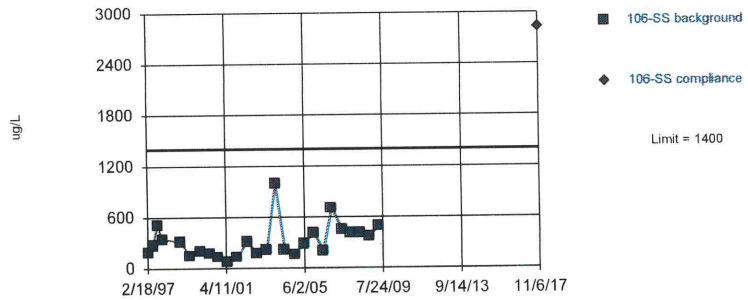
Exceeds Limit

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 = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:38 AM

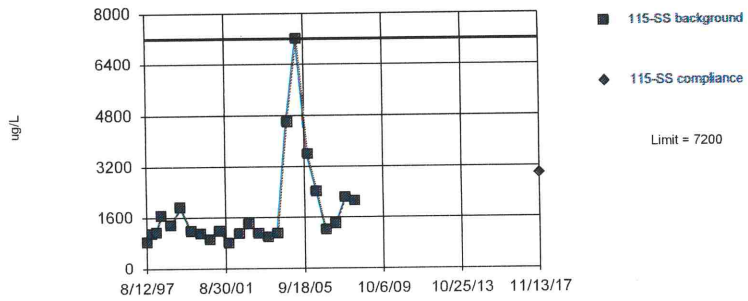
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 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 12/30/2017 11:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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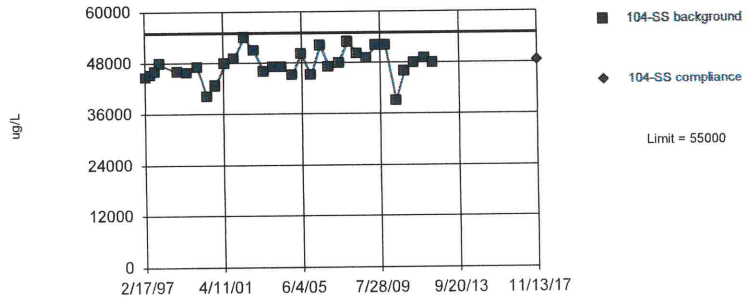
Within Limit

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 = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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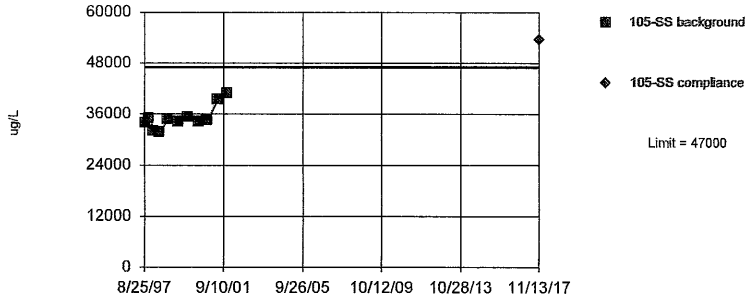
Exceeds Limit

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 = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:39 AM

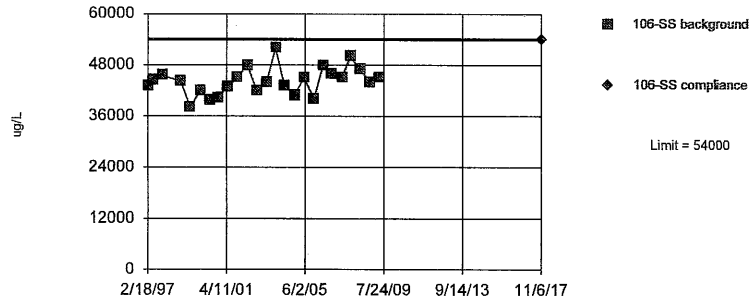
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 12/30/2017 11:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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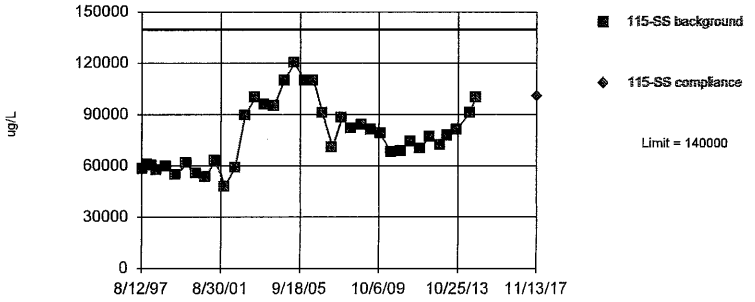
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.23, Std. Dev.=0.2383, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9667, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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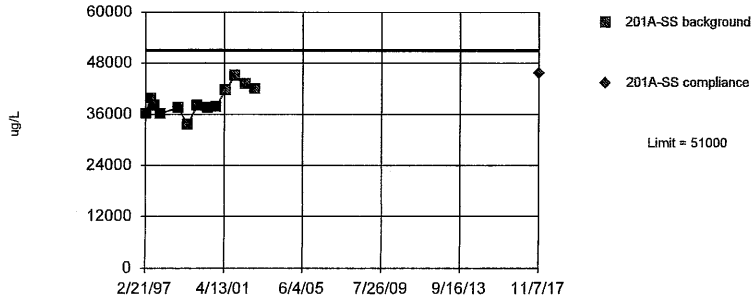
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.57, Std. Dev.=0.08112, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9611, critical = 0.866. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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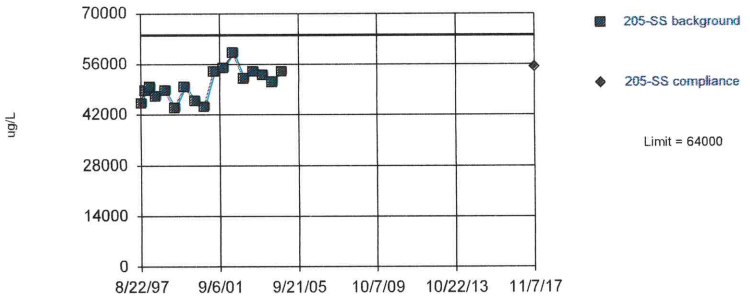
Within Limit

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 = 3.067 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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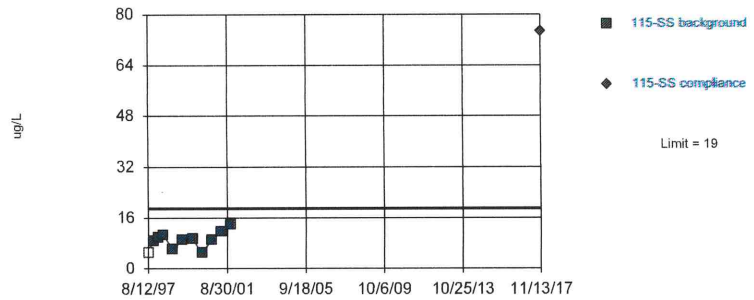
Hollow symbols indicate censored values.

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 = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 47 (5/21/2002).

Constituent: Manganese Total Analysis Run 12/30/2017 11:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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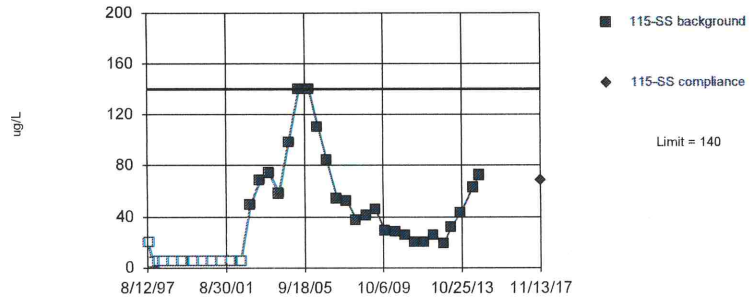
Hollow symbols indicate censored values.

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 12/30/2017 11:41 AM

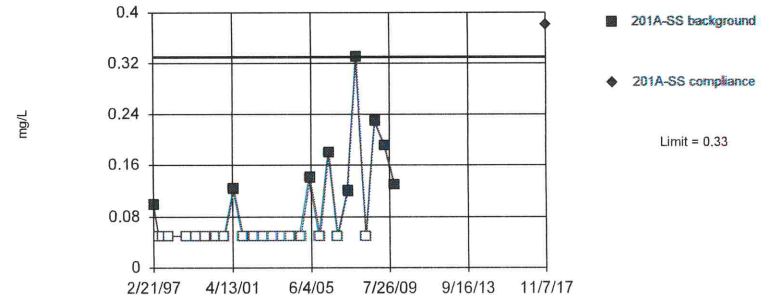
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 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 12/30/2017 11:42 AM

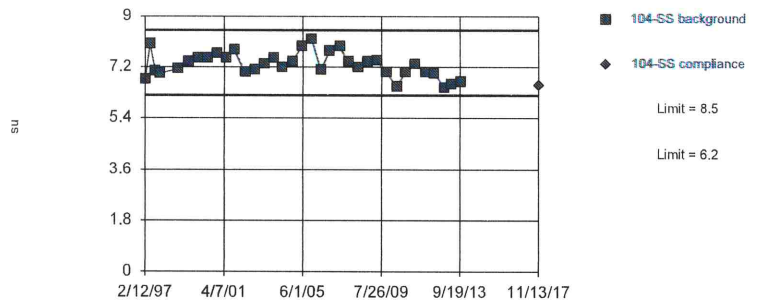
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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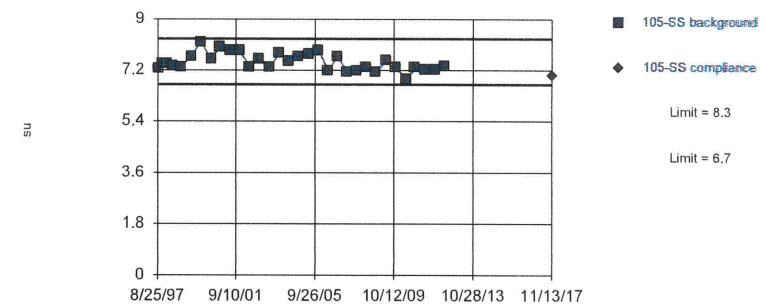
Within Limits

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 = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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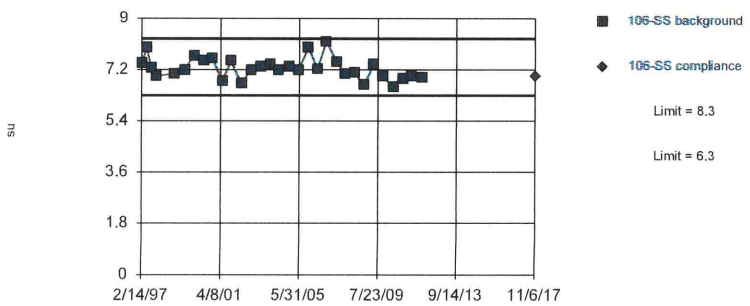
Within Limits

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 = 2.685 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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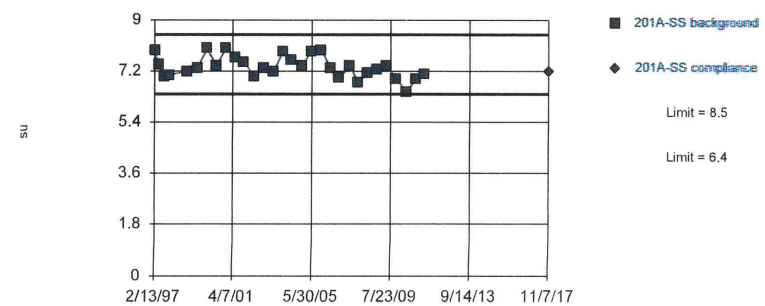
Within Limits

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 = 2.696 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:43 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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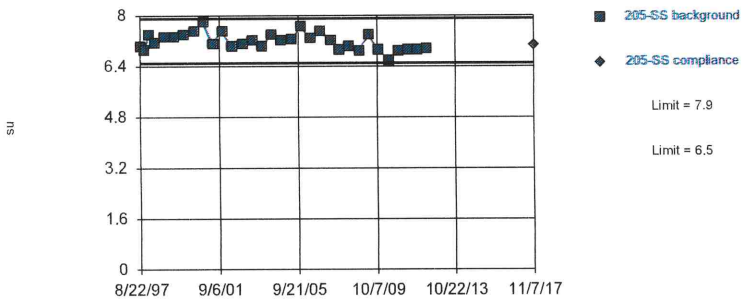
Within Limits

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 = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:44 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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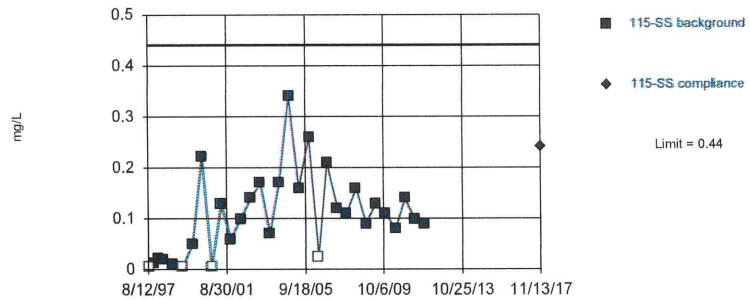
Hollow symbols indicate censored values.

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 = 2.685 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:44 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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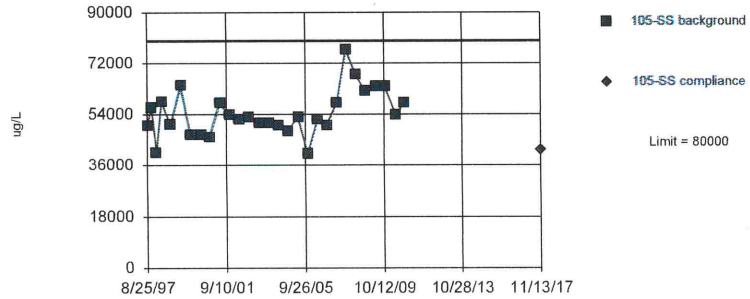
Within Limit

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 = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:45 AM

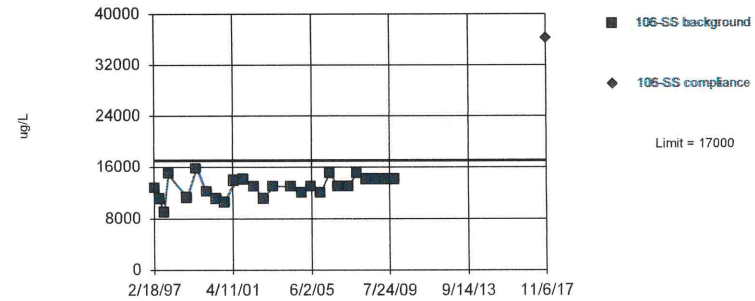
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 20000 (11/20/2003).

Constituent: Sodium Total Analysis Run 12/30/2017 11:45 AM

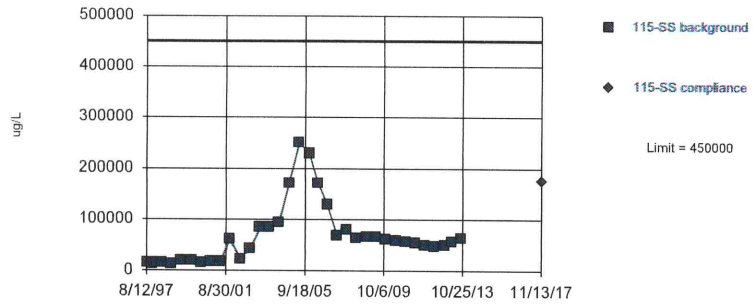
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:45 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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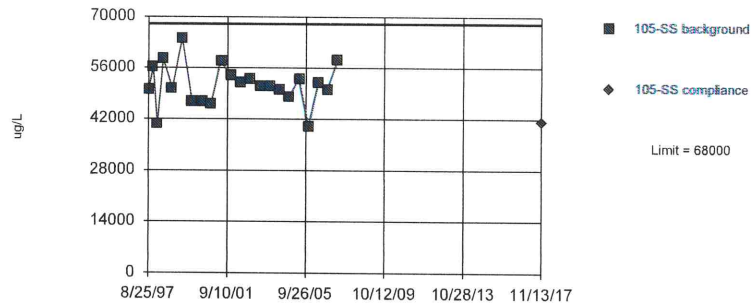
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=51318, Std. Dev.=5662, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9685, critical = 0.878. Kappa = 2.868 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:46 AM

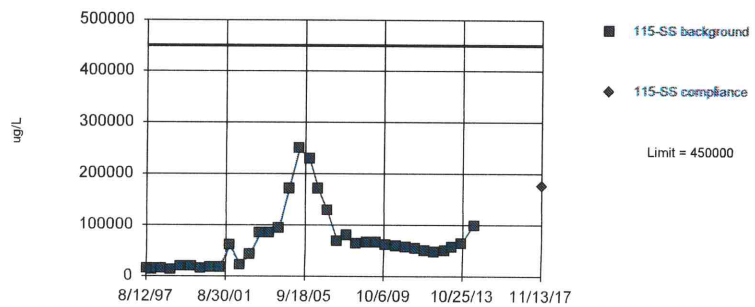
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.8, Std. Dev.=0.8428, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9214, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:46 AM

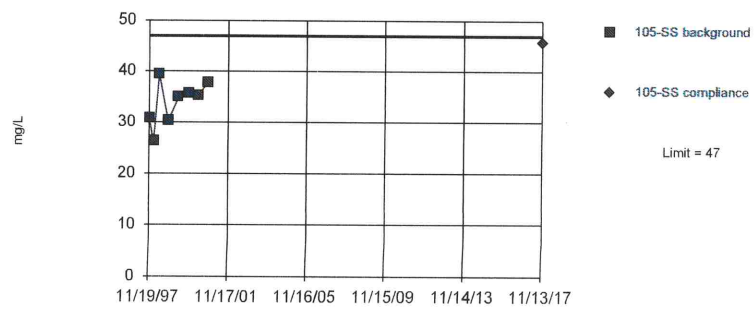
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within 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 = 4.517 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 13 (8/25/1997).

Constituent: Sulfate Analysis Run 12/30/2017 11:46 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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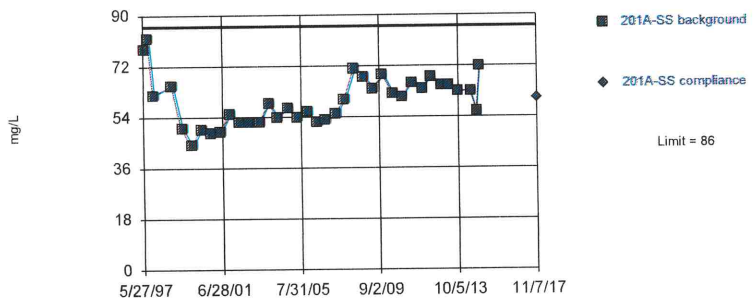
Within Limit

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 = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 12/30/2017 11:47 AM

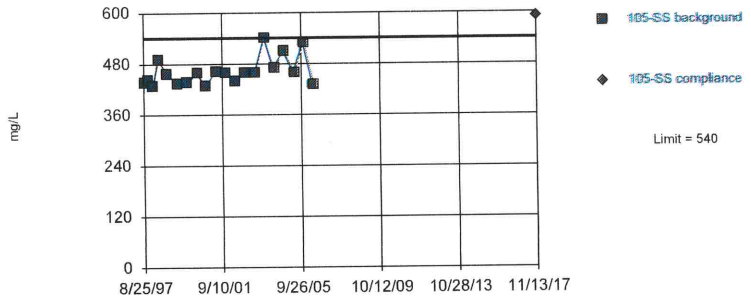
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:47 AM

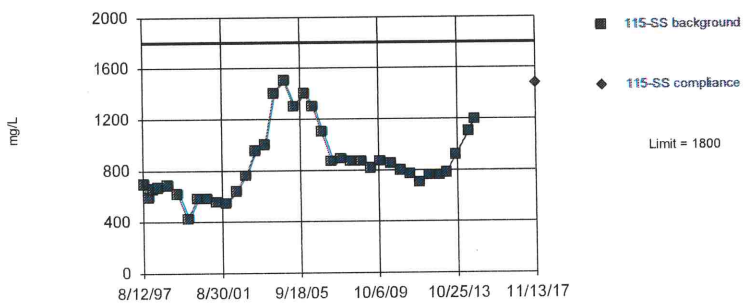
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. 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 12/30/2017 11:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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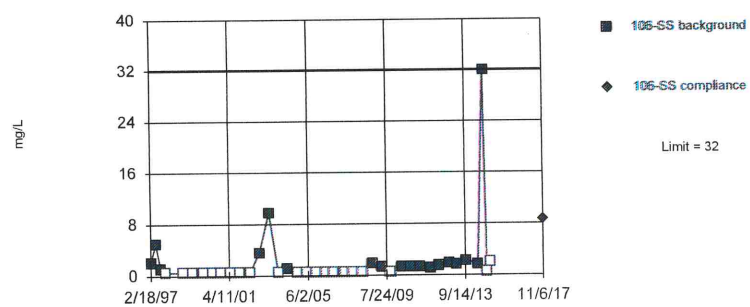
Hollow symbols indicate censored values.

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 12/30/2017 11:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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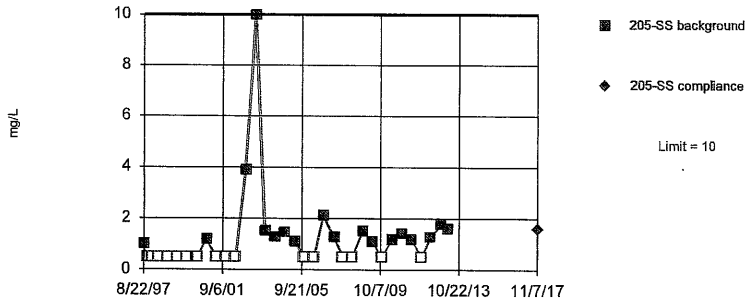
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because 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 12/30/2017 11:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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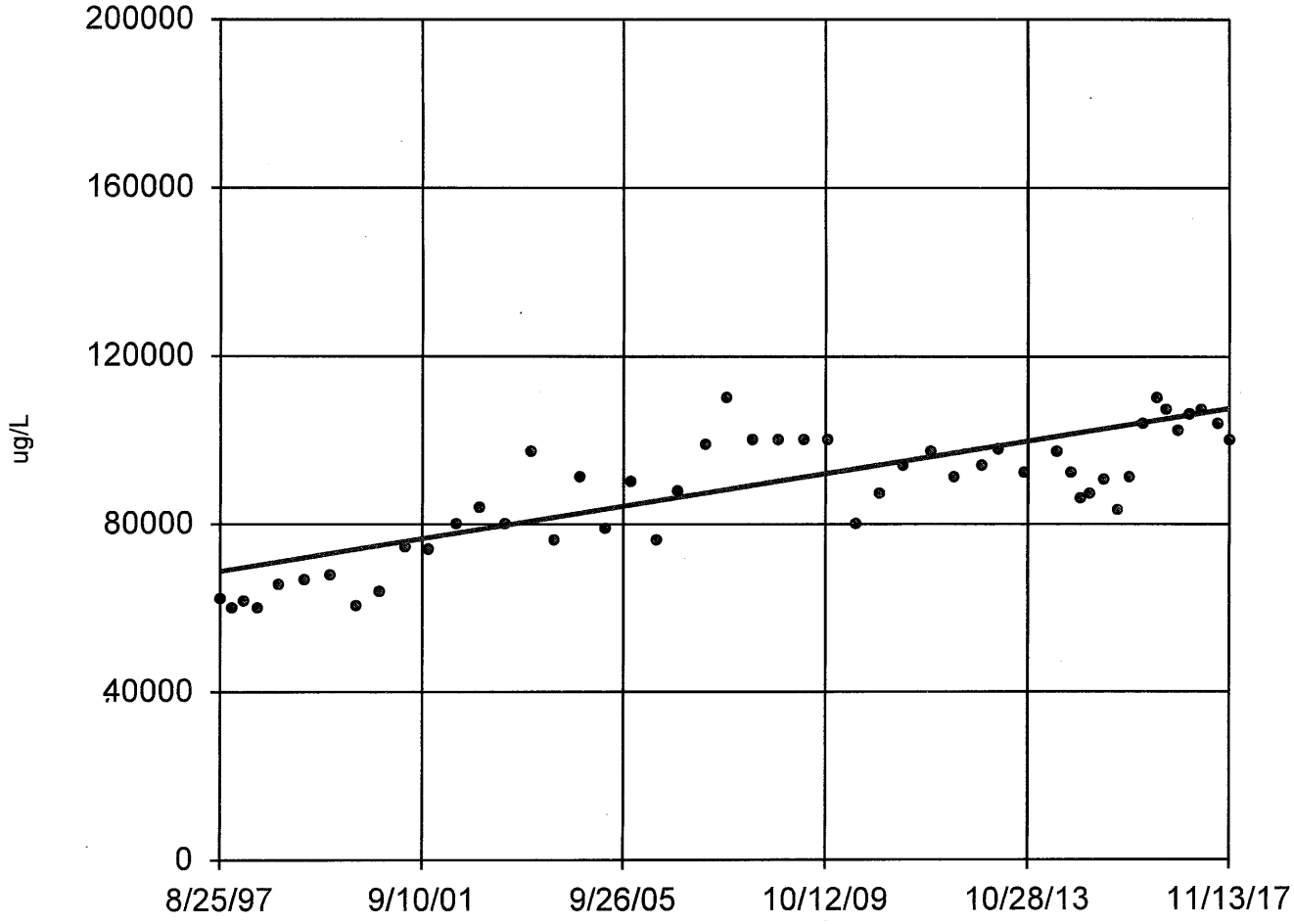
Sen's Slope Estimator

105-SS



n = 50

Slope = 1919 units per year.

Mann-Kendall normal approx. = 5.963
critical = 2.33

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

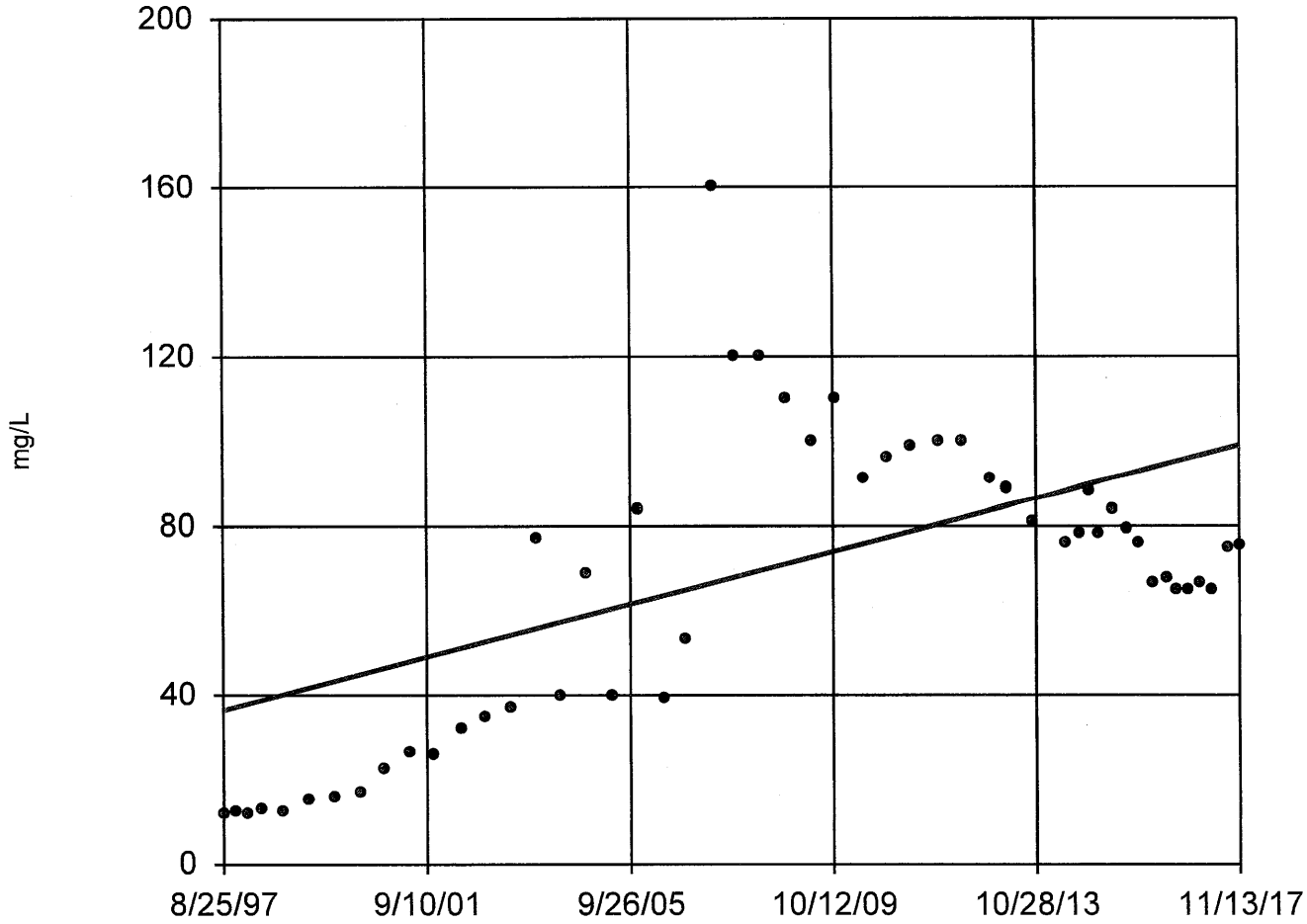
Constituent: Calcium Total Analysis Run 12/30/2017 2:19 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

105-SS



n = 50

Slope = 3.093 units per year.

Mann-Kendall normal approx. = 3.372
critical = 2.33

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

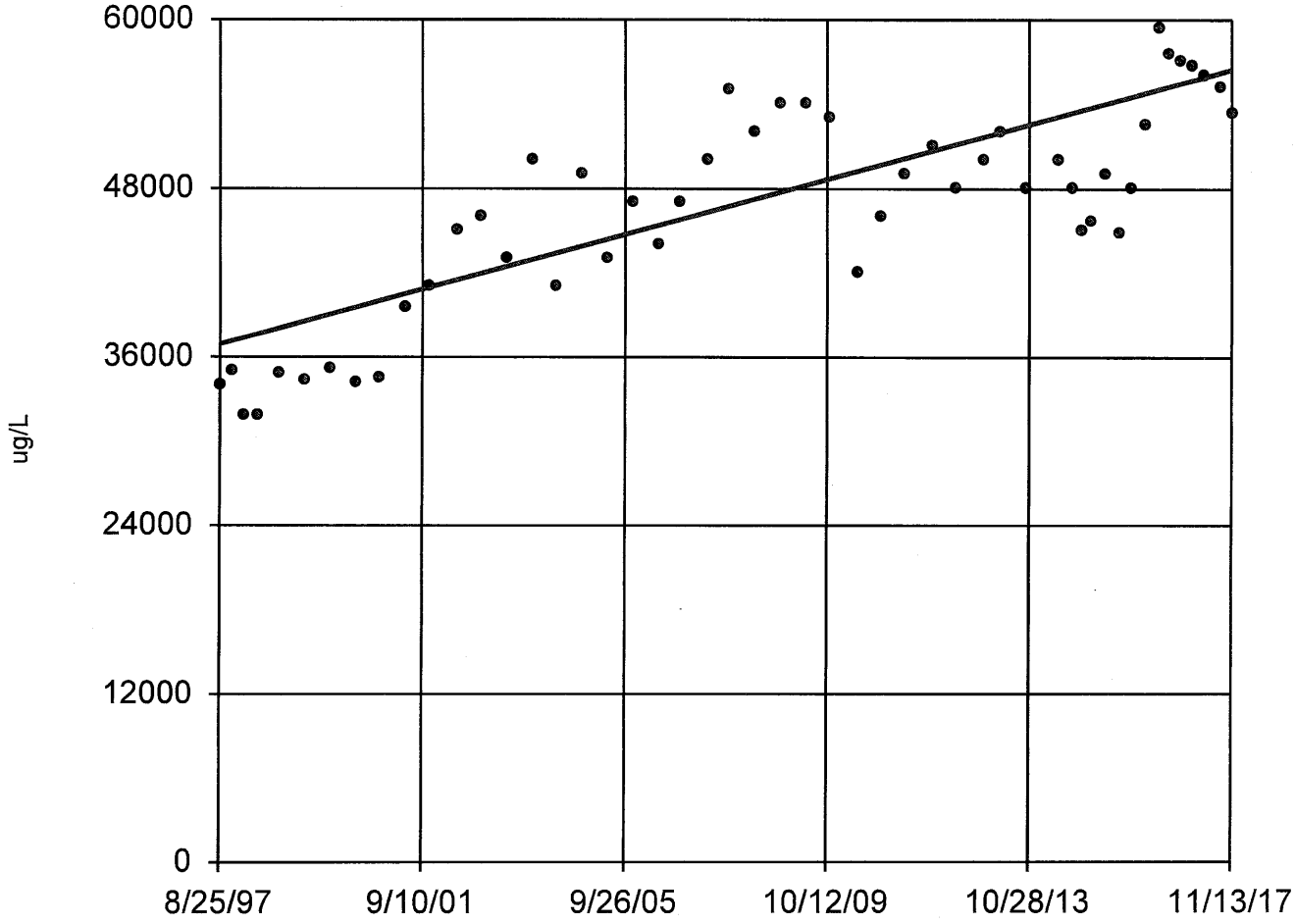
Constituent: Chloride Analysis Run 12/30/2017 2:19 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

105-SS



n = 50

Slope = 967.7 units per year.

Mann-Kendall normal approx. = 5.928
critical = 2.33

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

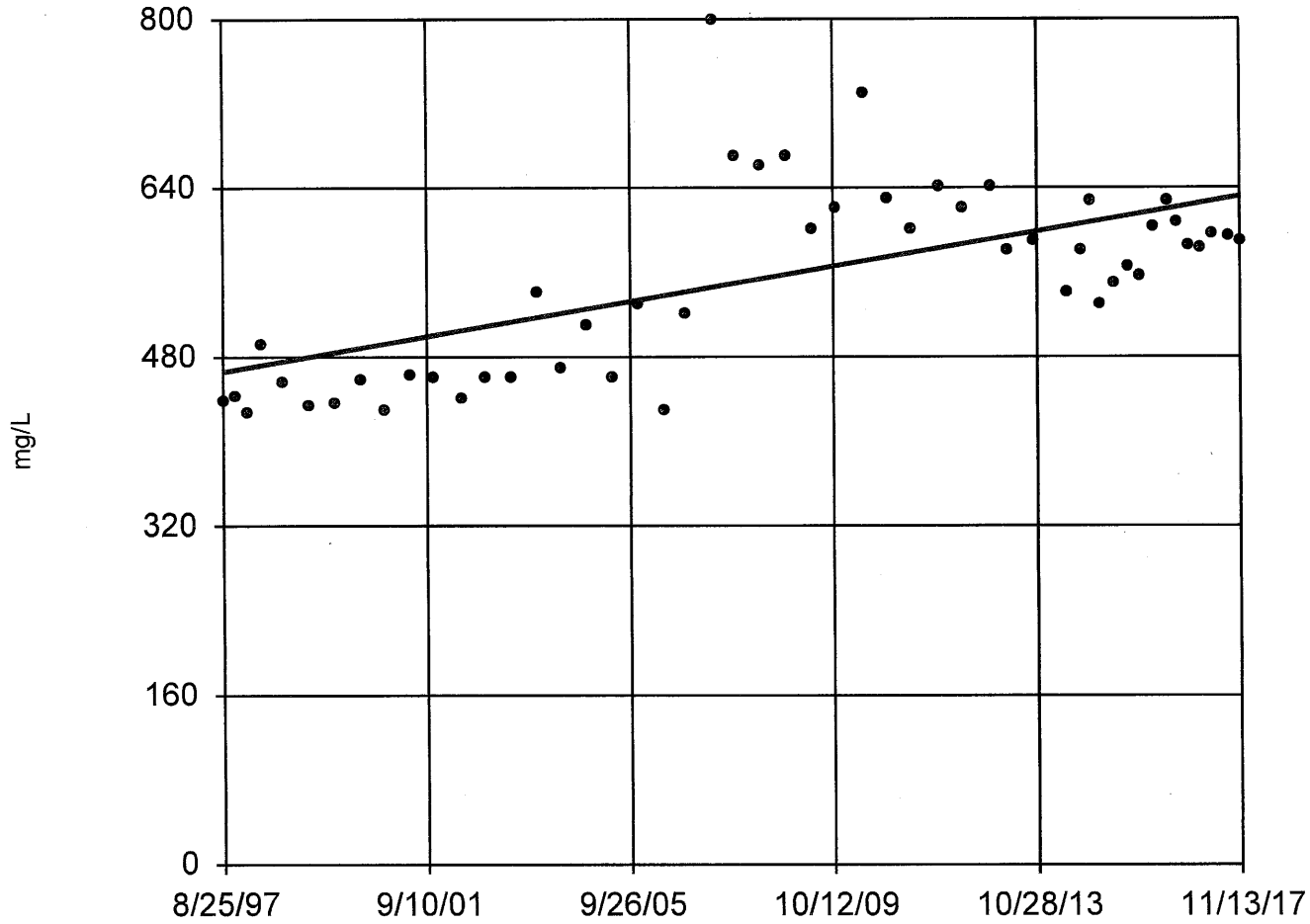
Constituent: Magnesium Total Analysis Run 12/30/2017 2:19 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

105-SS



n = 50

Slope = 8.213 units per year.

Mann-Kendall normal approx. = 4.344
critical = 2.33

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

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 2:19 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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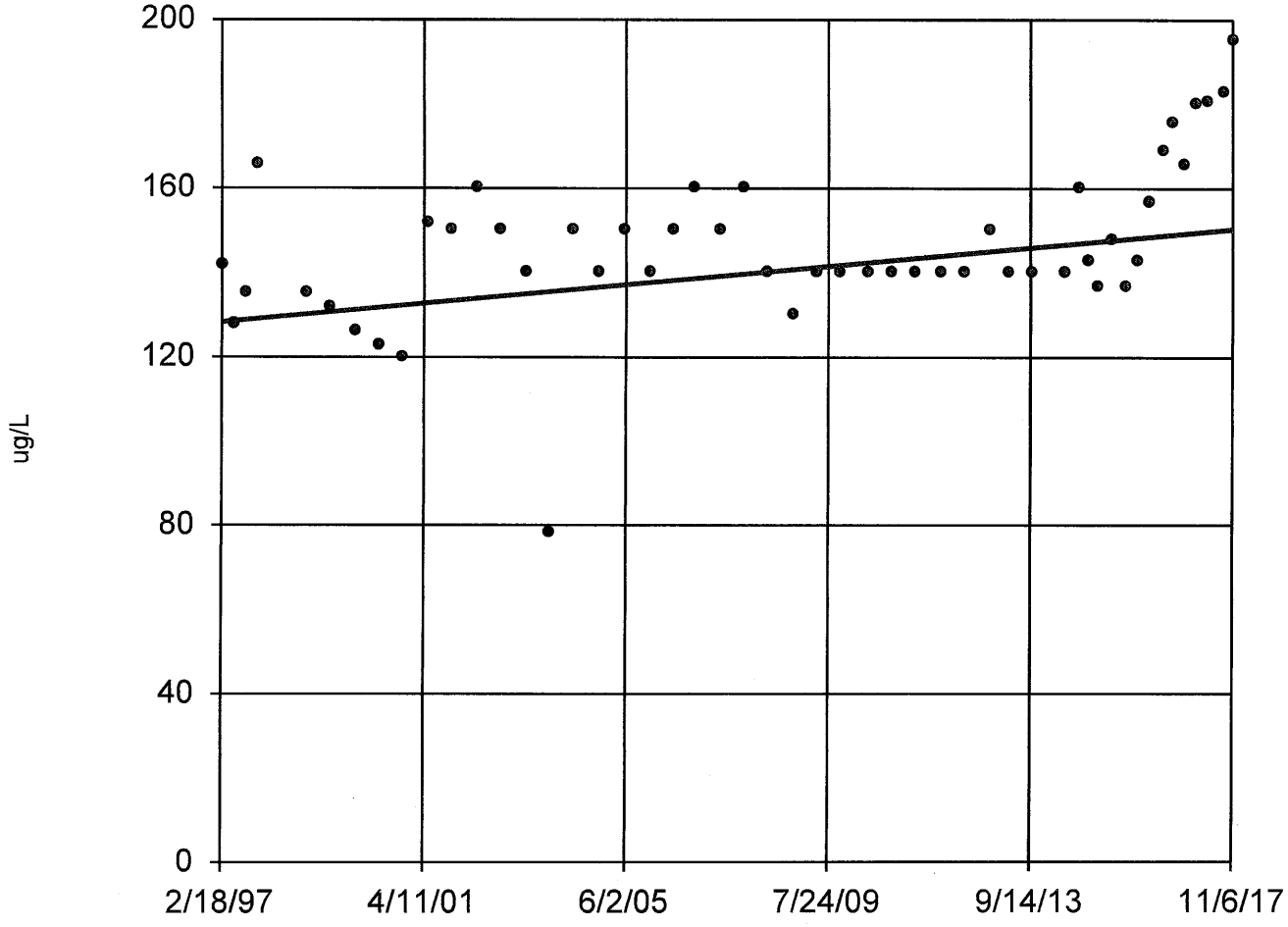
Sen's Slope Estimator

106-SS



n = 50

Slope = 1.067 units per year.

Mann-Kendall normal approx. = 3.376
critical = 2.33

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

Constituent: Barium Total Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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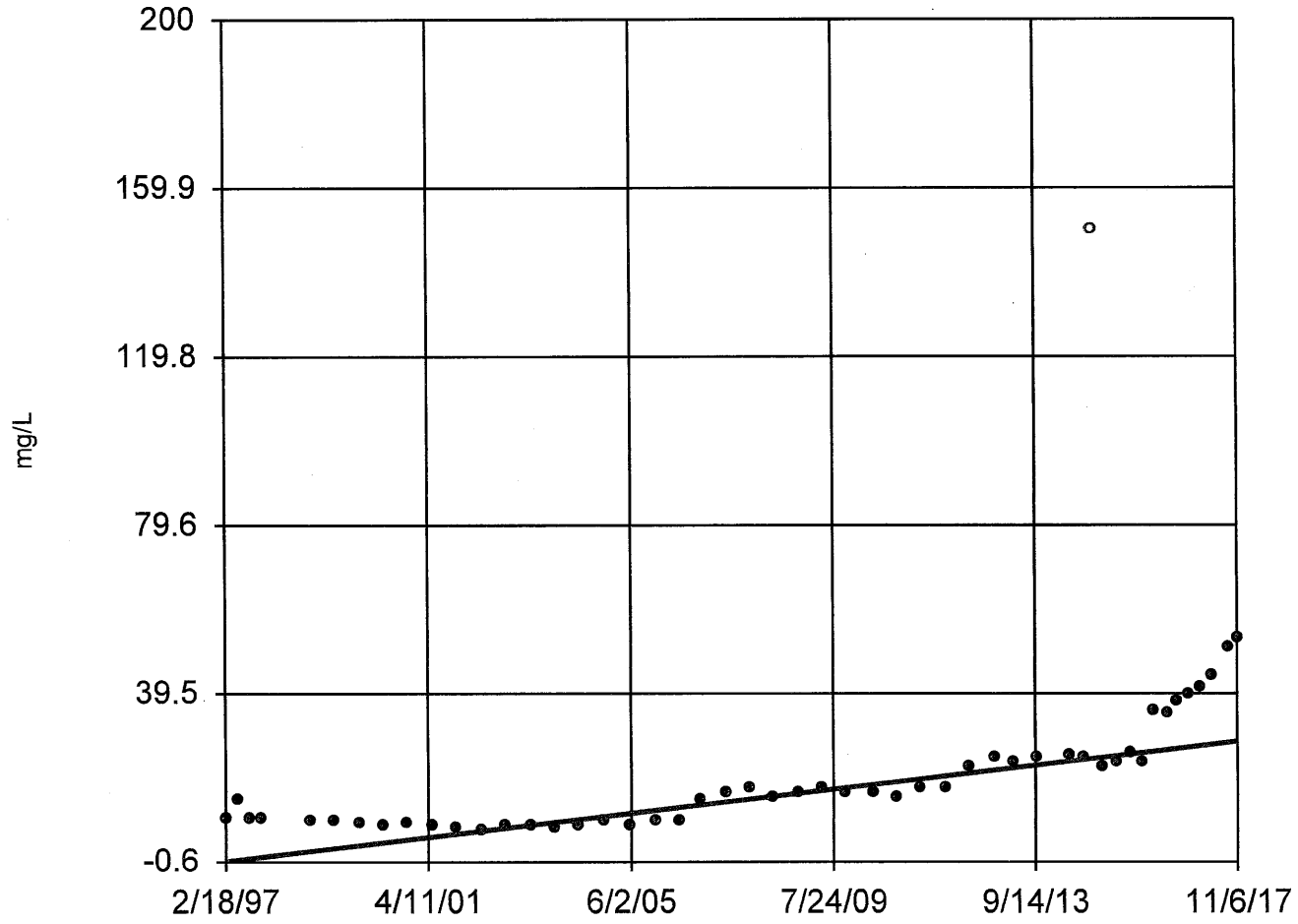
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS



n = 50

Slope = 1.382 units per year.

Mann-Kendall normal approx. = 7.217
critical = 2.33

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

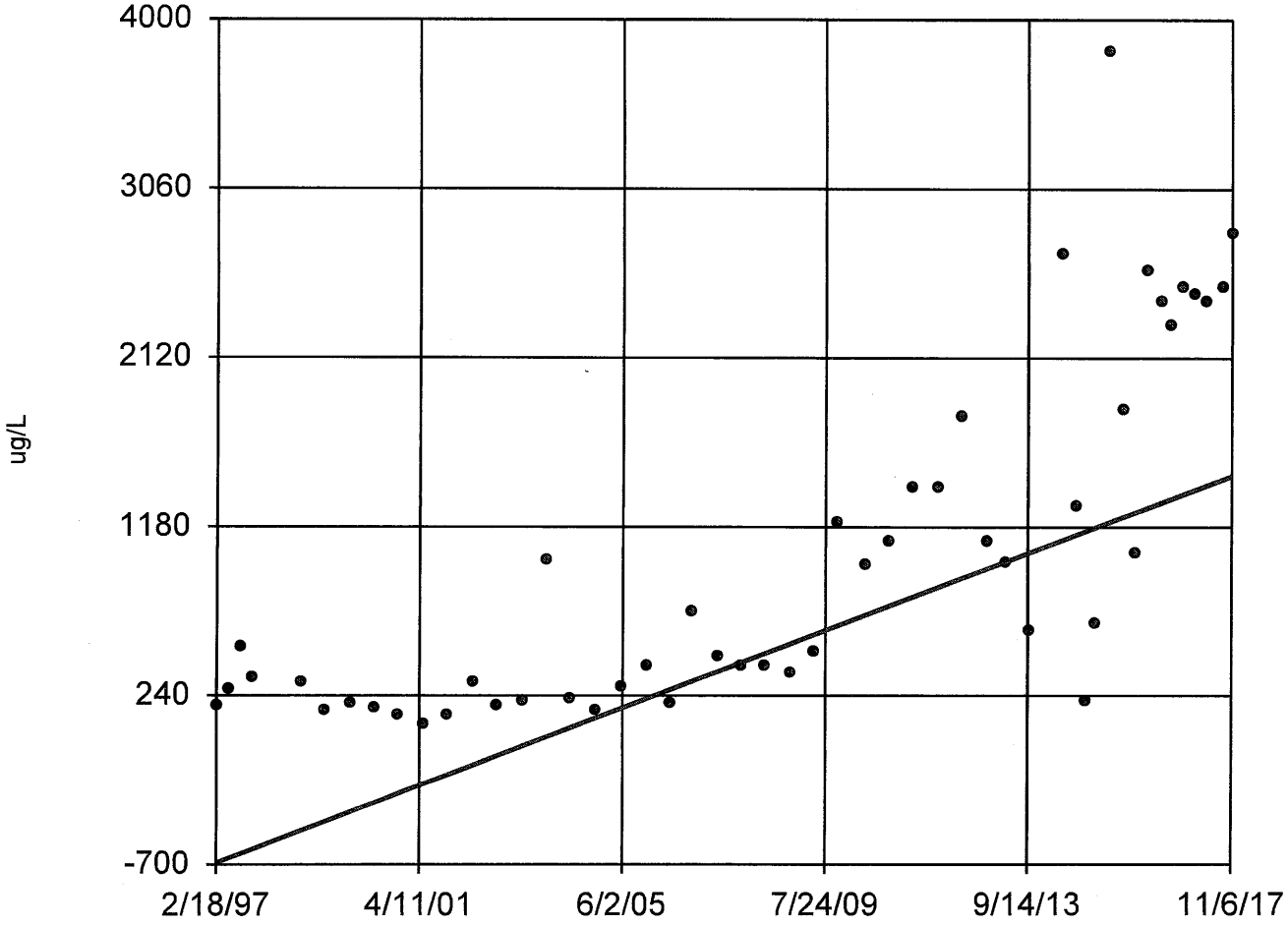
Constituent: Chloride Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SS



n = 50

Slope = 104.1 units per year.

Mann-Kendall normal approx. = 6.535
critical = 2.33

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

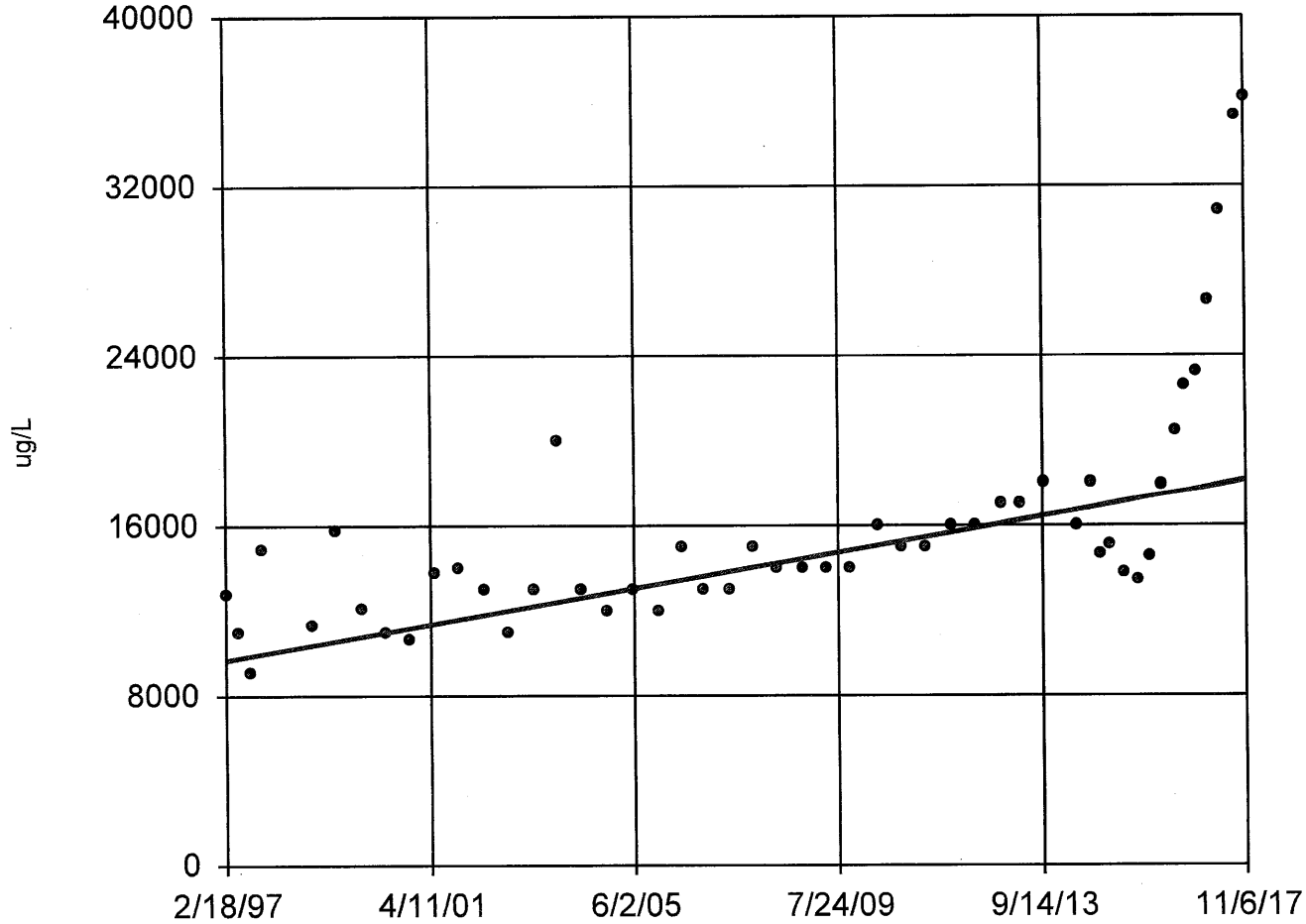
Constituent: Iron Total Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SS



n = 50

Slope = 406.9 units per year.

Mann-Kendall normal approx. = 6.289
critical = 2.33

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

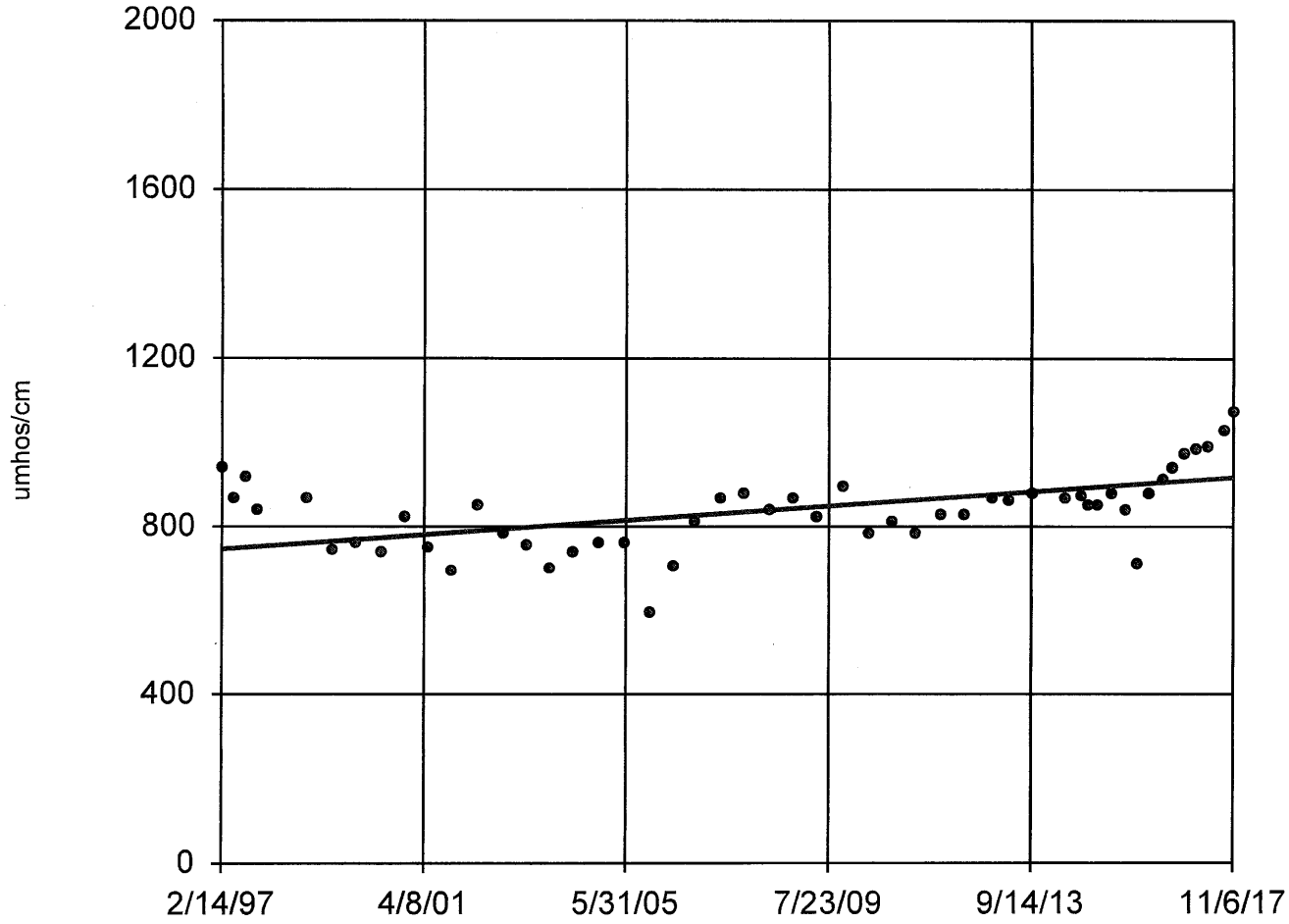
Constituent: Sodium Total Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SS



n = 50

Slope = 8.208 units per year.

Mann-Kendall normal approx. = 4.117
critical = 2.33

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

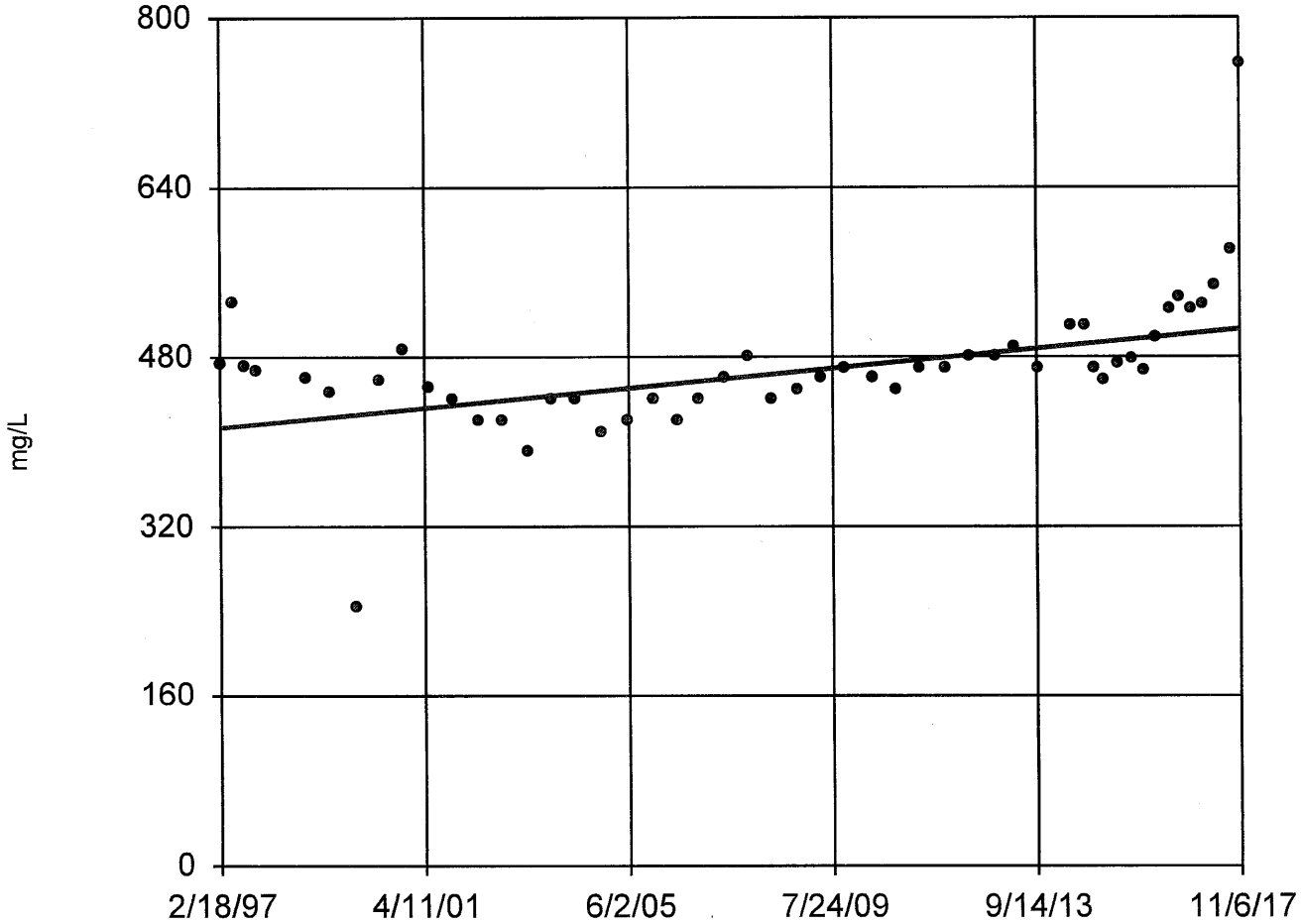
Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

106-SS



n = 50

Slope = 4.47 units per year.

Mann-Kendall normal approx. = 4.727
critical = 2.33

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

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 2:21 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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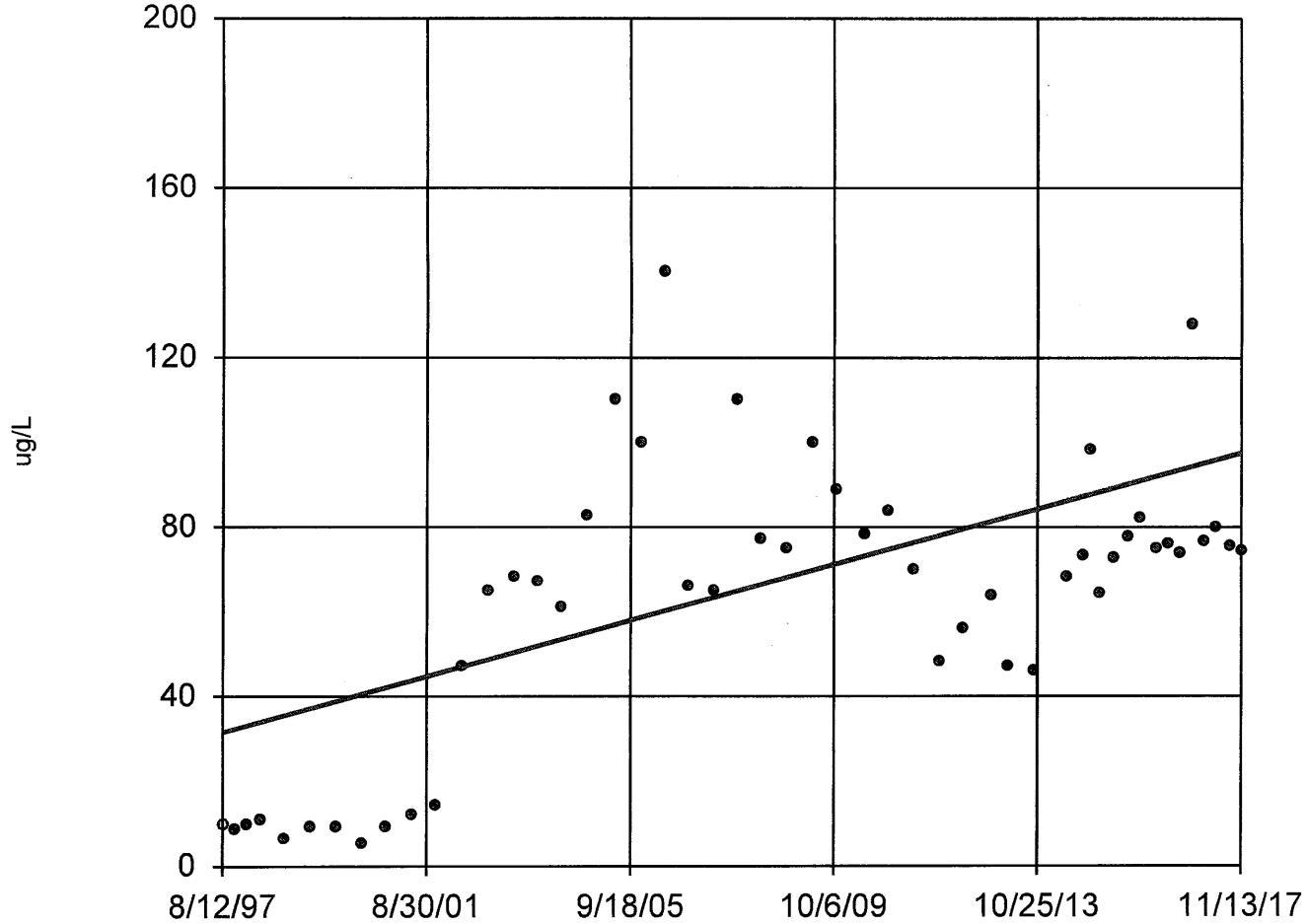
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS



n = 50

Slope = 3.259 units per year.

Mann-Kendall normal approx. = 4.024
critical = 2.33

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

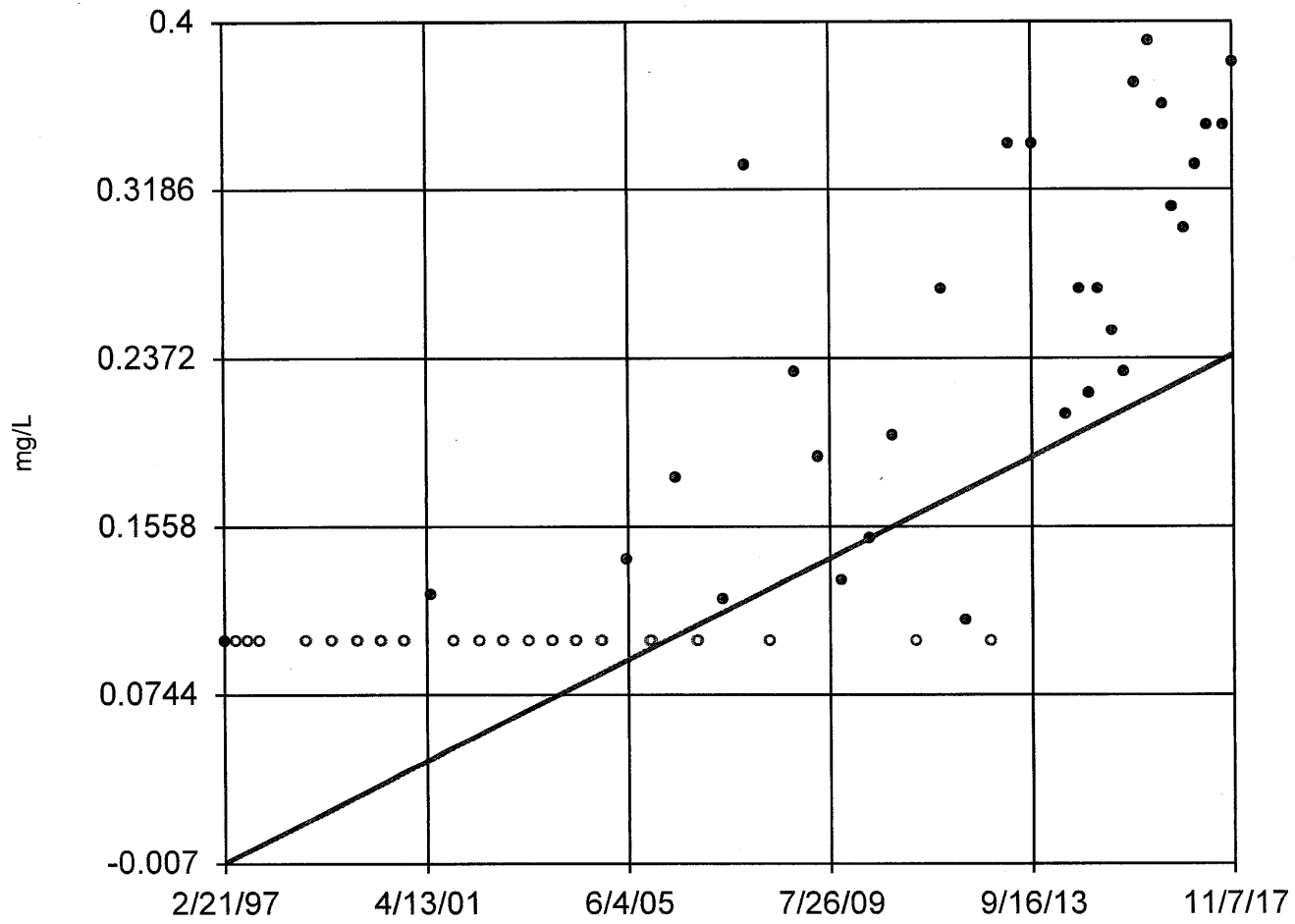
Constituent: Manganese Total Analysis Run 12/30/2017 2:22 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS



n = 50

Slope = 0.01185 units per year.

Mann-Kendall normal approx. = 6.592
critical = 2.33

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

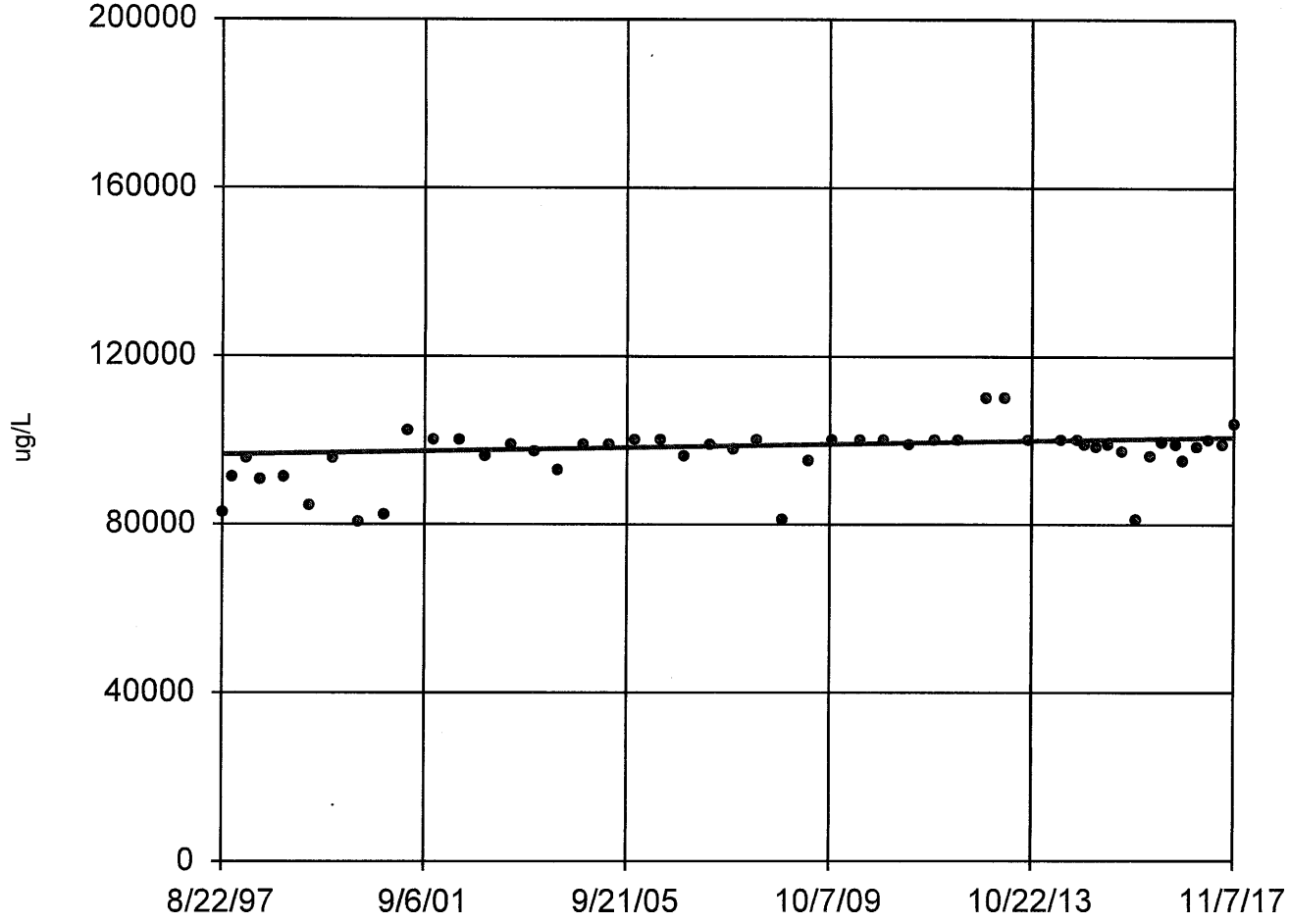
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 2:22 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

205-SS



n = 50

Slope = 210.7 units per year.

Mann-Kendall normal approx. = 2.577
critical = 2.33

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

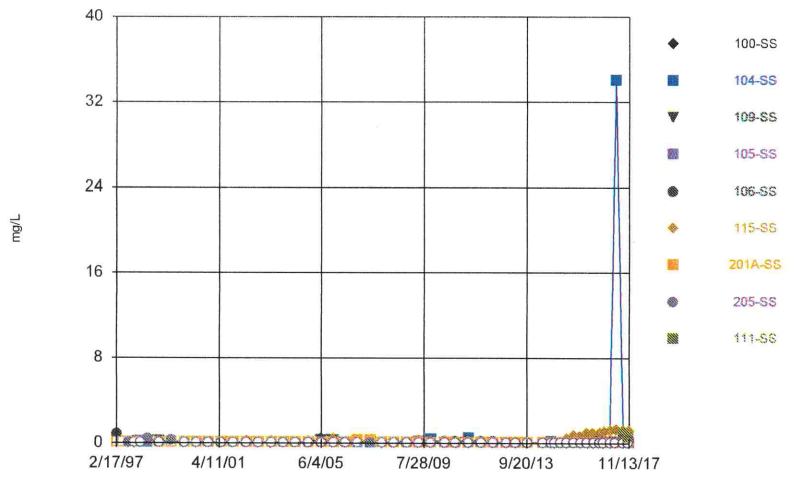
Constituent: Calcium Total Analysis Run 12/30/2017 2:23 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

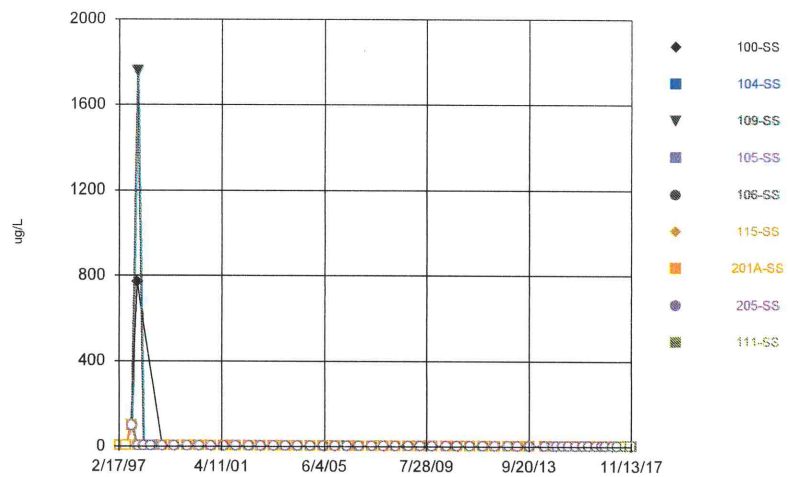
Time Series



Constituent: Ammonia as N Analysis Run 12/30/2017 1:18 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

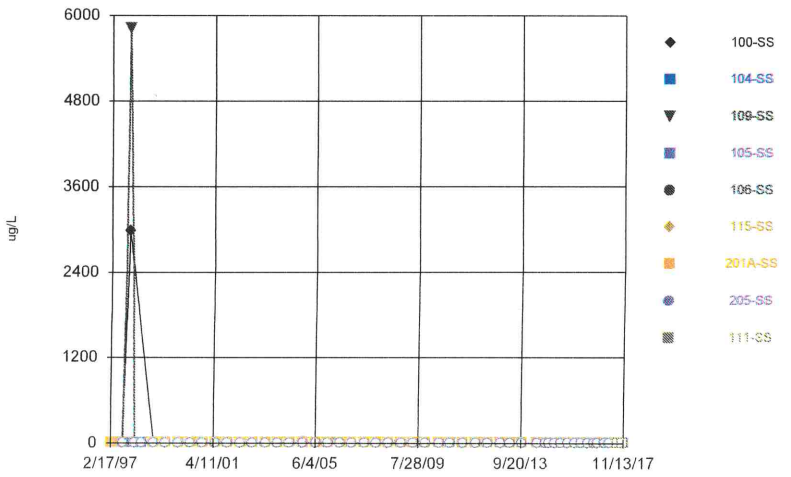
Time Series



Constituent: Antimony Total Analysis Run 12/30/2017 1:18 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

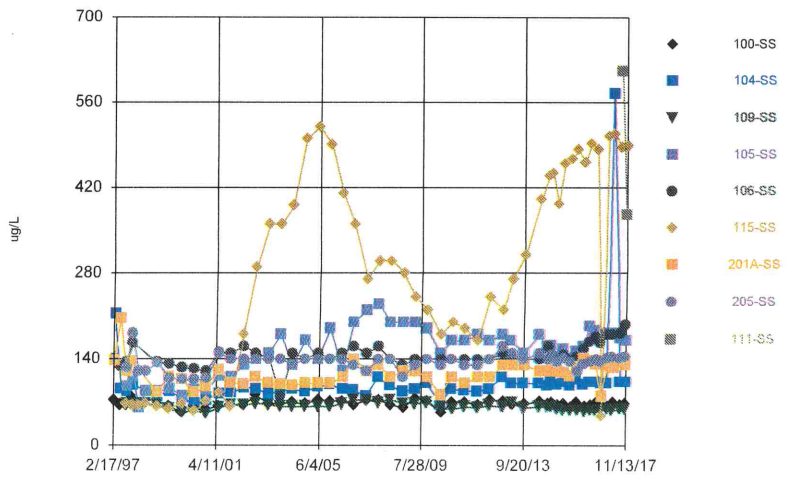
Time Series



Constituent: Arsenic Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

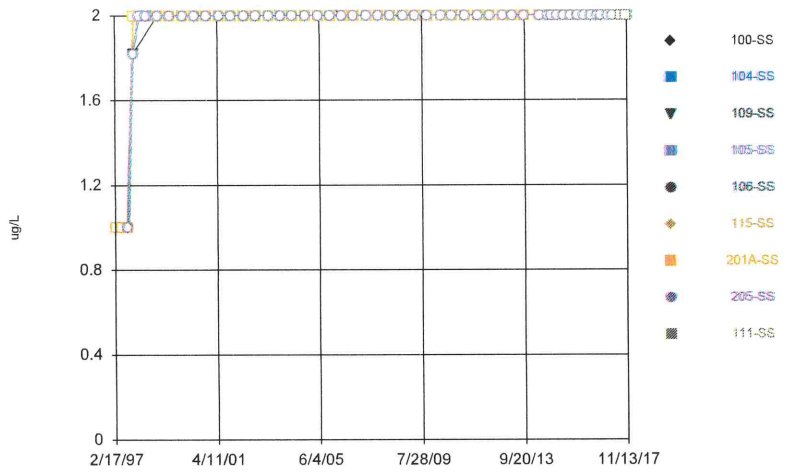
Time Series



Constituent: Barium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

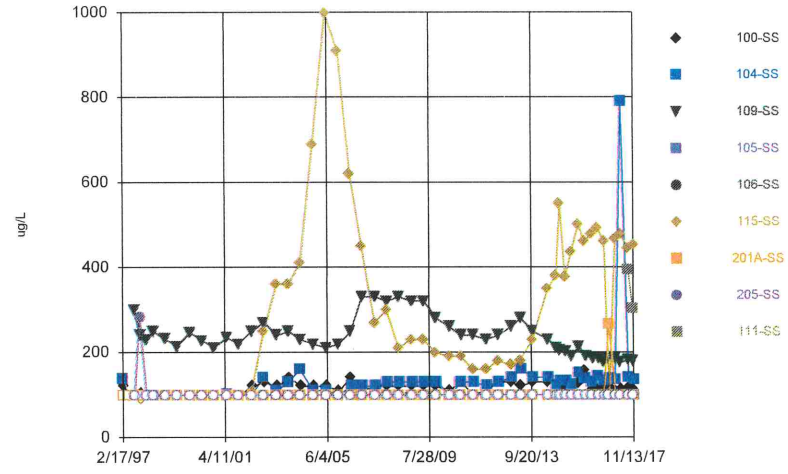
Time Series



Constituent: Beryllium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

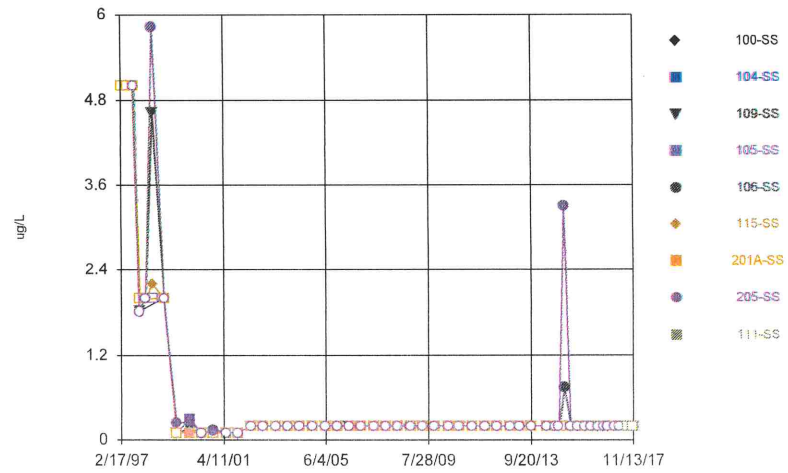
Time Series



Constituent: Boron Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

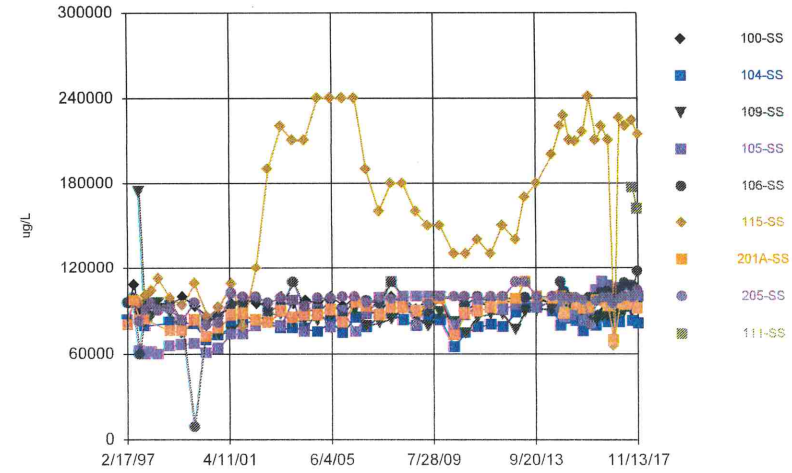
Time Series



Constituent: Cadmium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

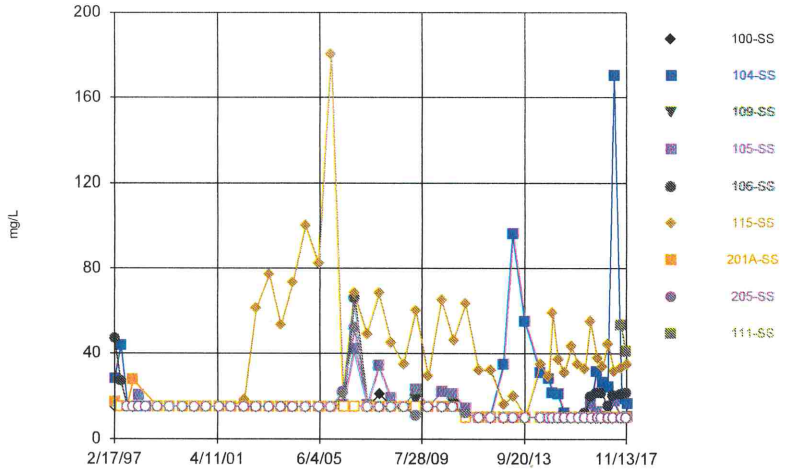
Time Series



Constituent: Calcium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

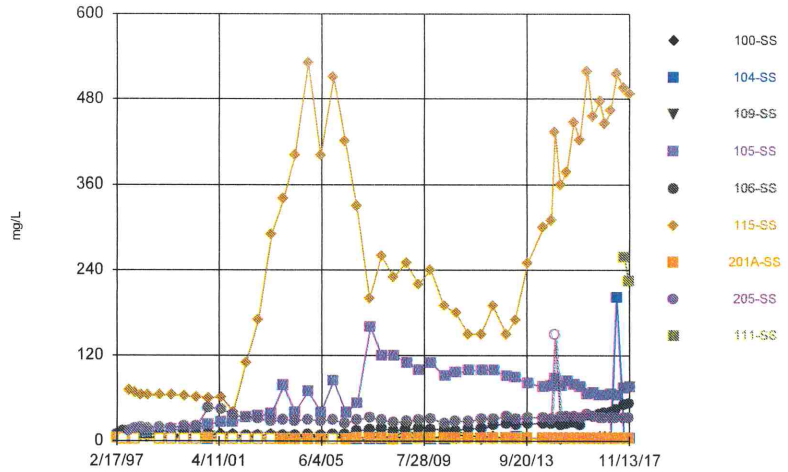
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

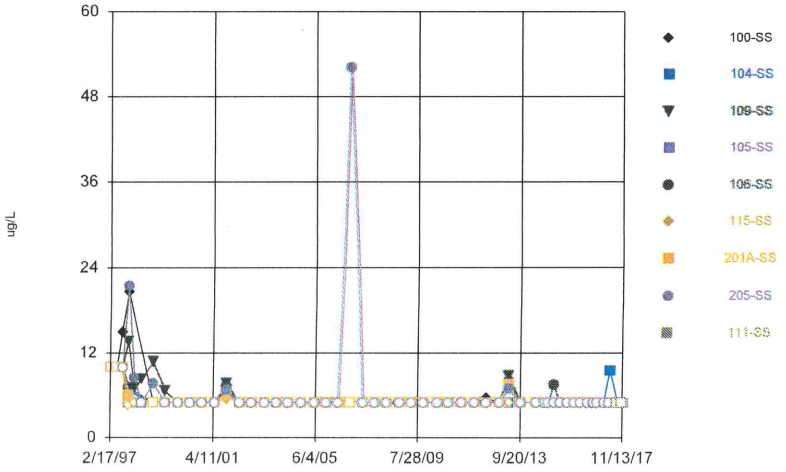
Time Series



Constituent: Chloride Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

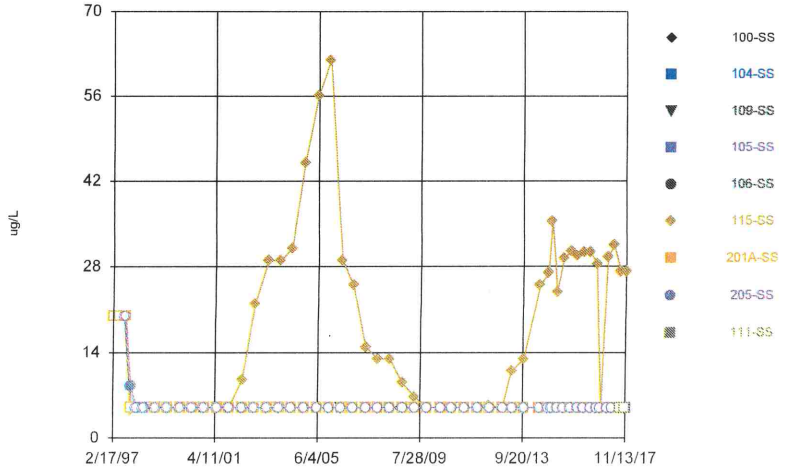
Time Series



Constituent: Chromium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

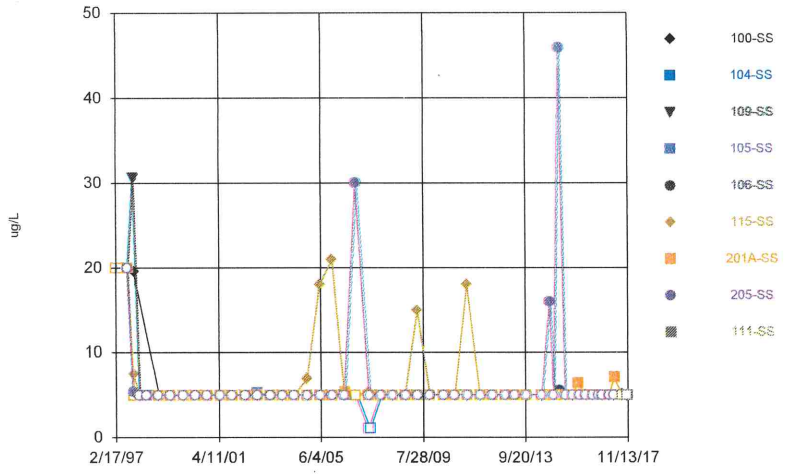
Time Series



Constituent: Cobalt Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

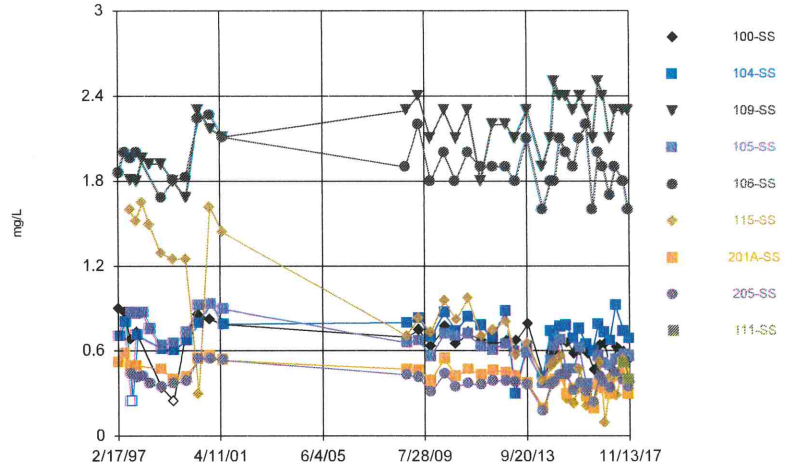
Time Series



Constituent: Copper Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

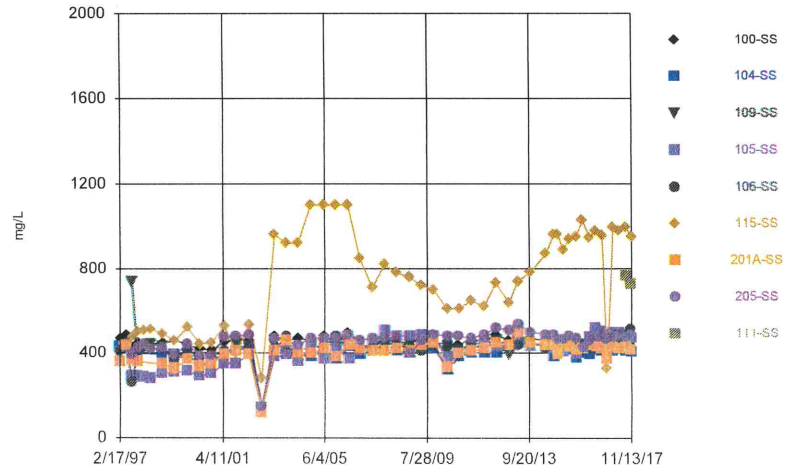
Time Series



Constituent: Fluoride Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

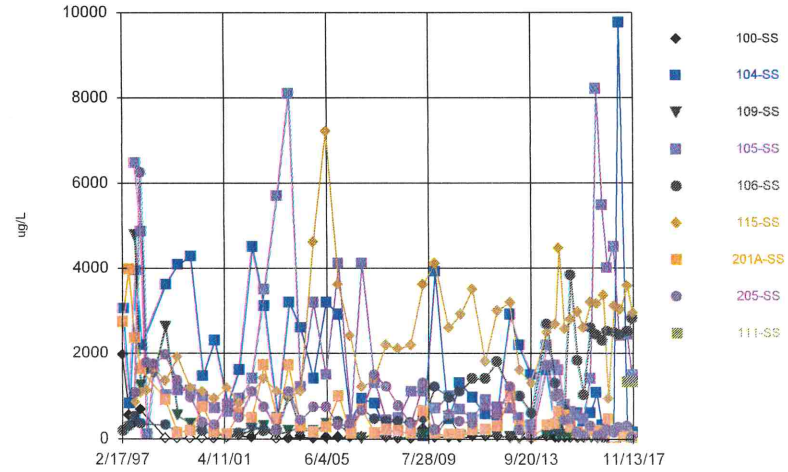
Time Series



Constituent: Hardness Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

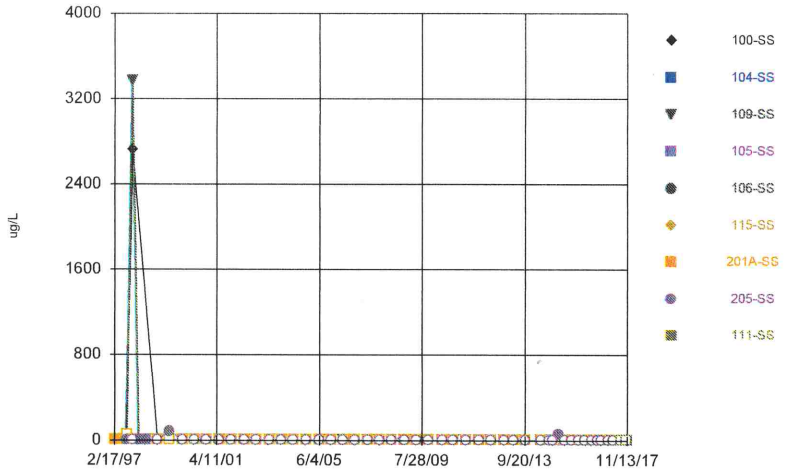
Time Series



Constituent: Iron Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

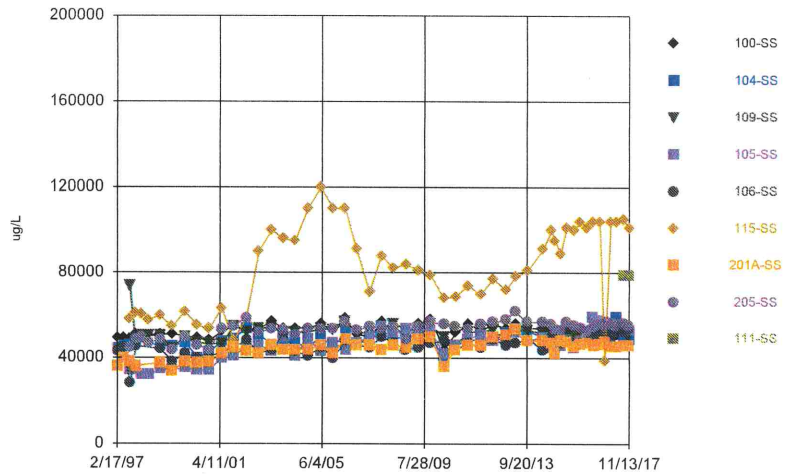
Time Series



Constituent: Lead Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

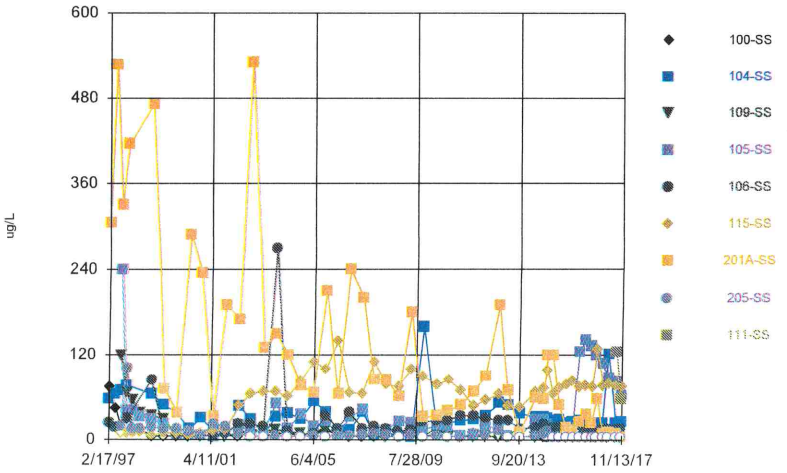
Time Series



Constituent: Magnesium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

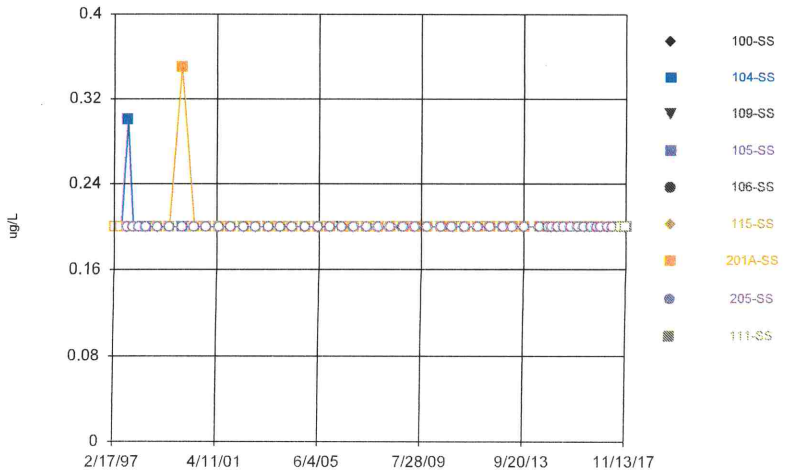
Time Series



Constituent: Manganese Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

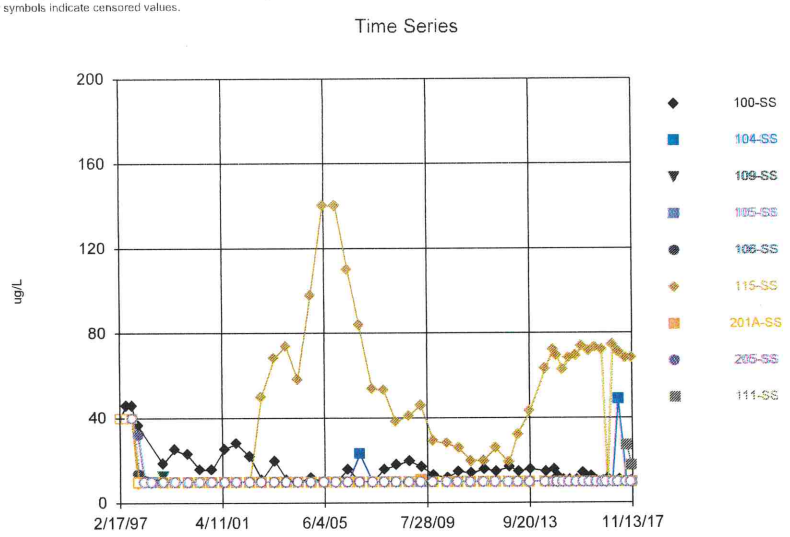
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



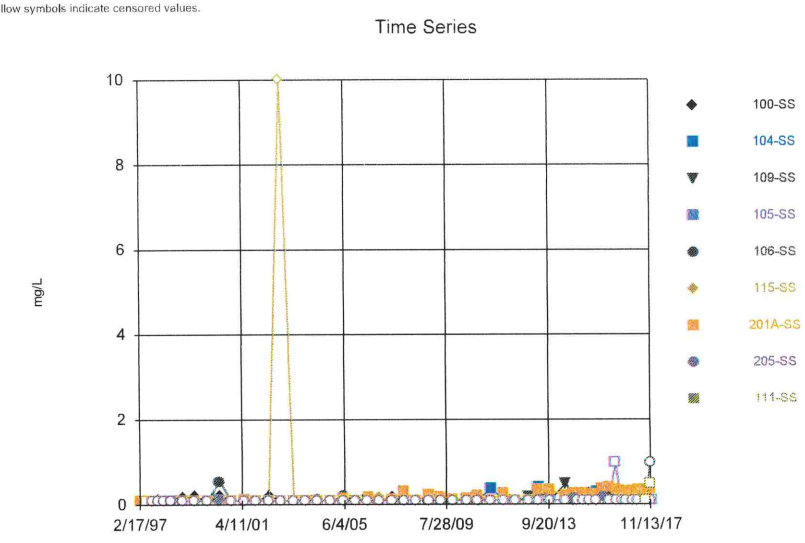
Constituent: Mercury Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



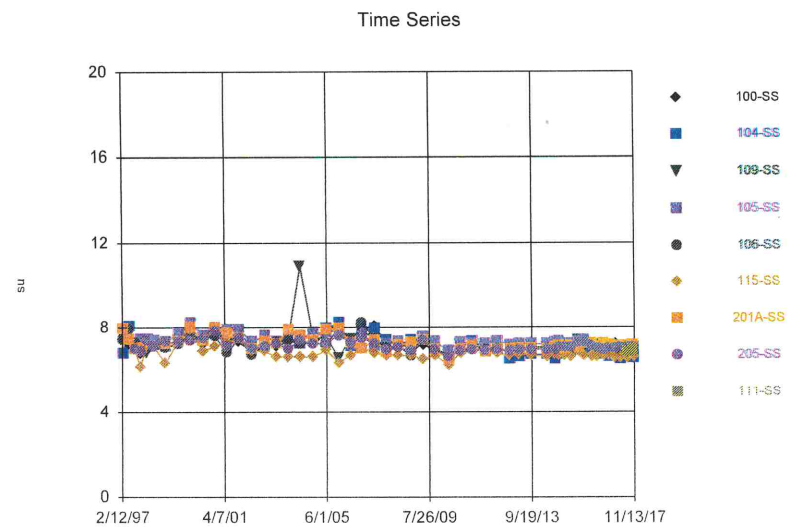
Constituent: Nickel Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



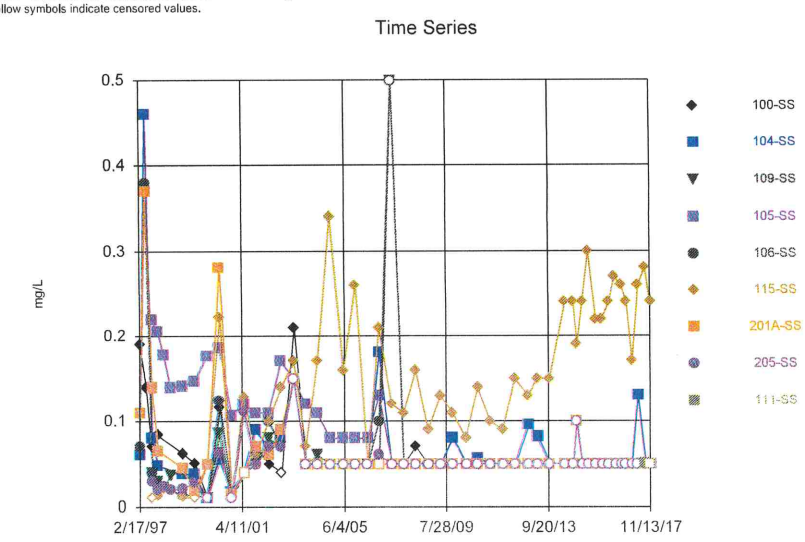
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG



Constituent: pH [Field] Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

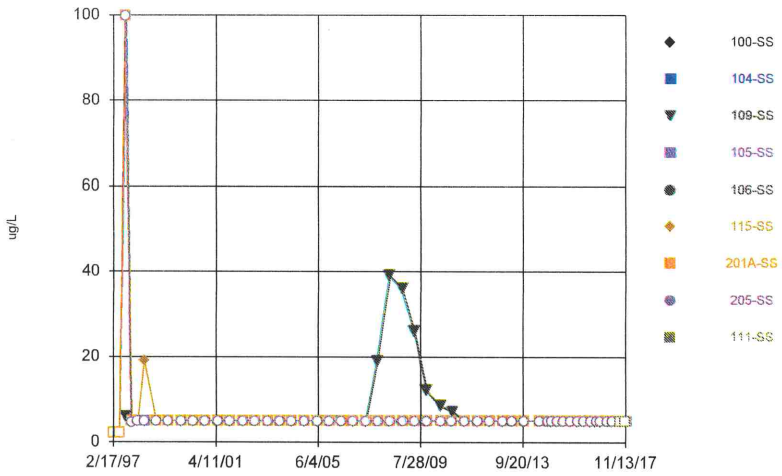
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Phosphorus Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

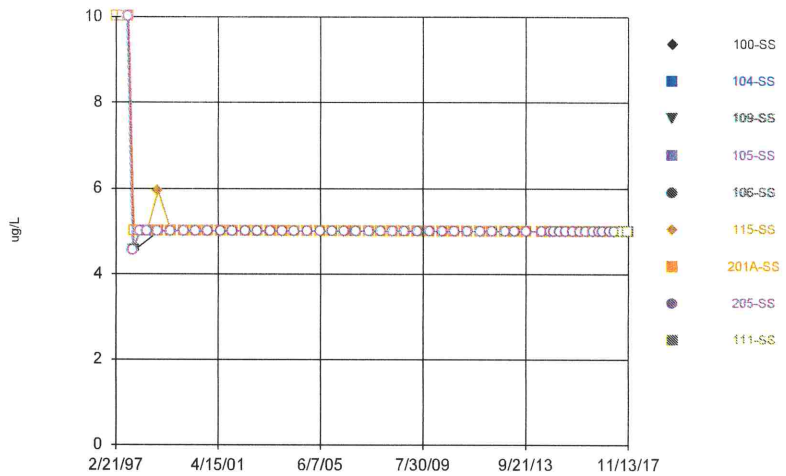
Time Series



Constituent: Selenium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

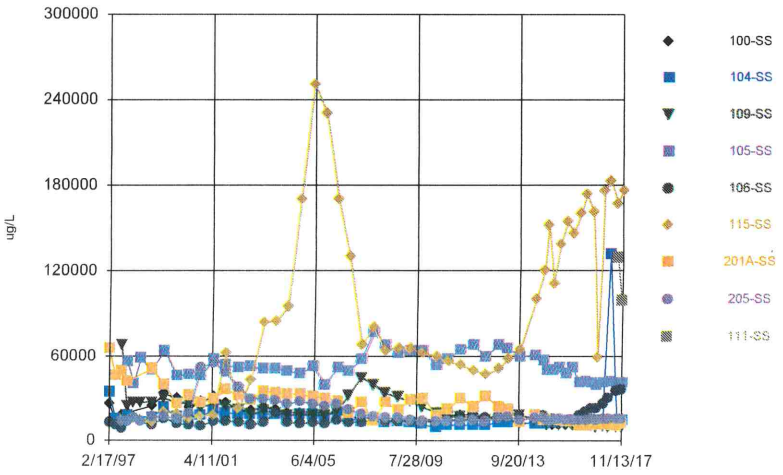
Time Series



Constituent: Silver Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

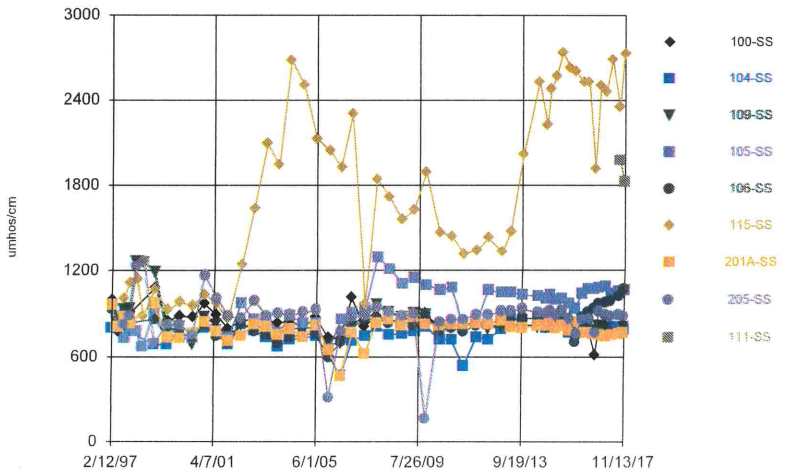
Time Series



Constituent: Sodium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

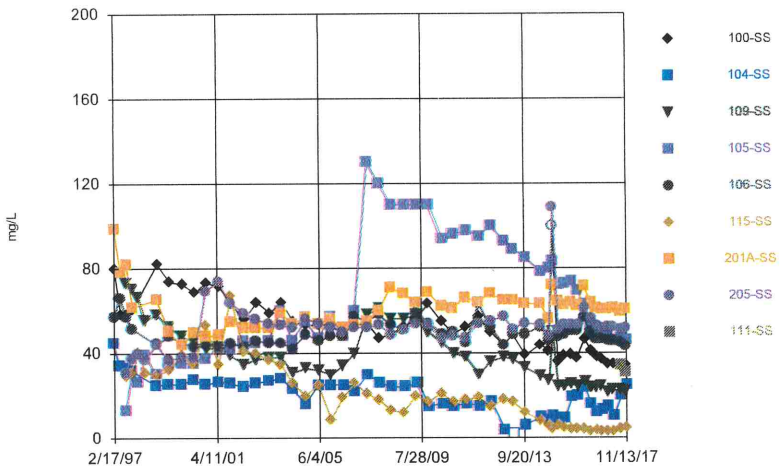
Time Series



Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

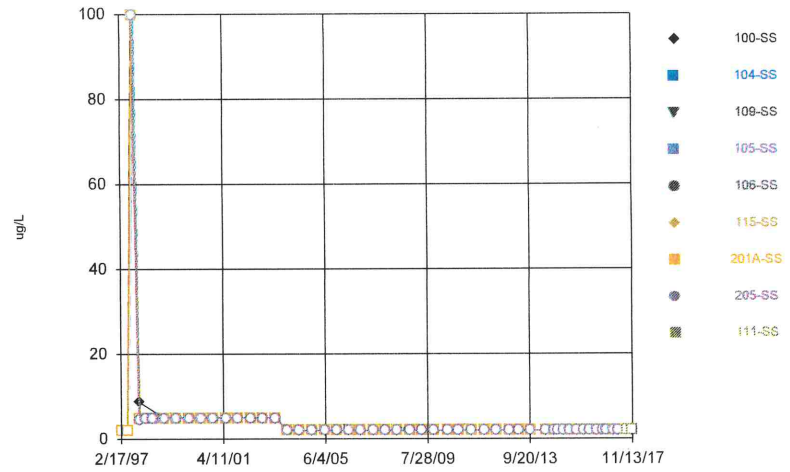
Time Series



Constituent: Sulfate Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

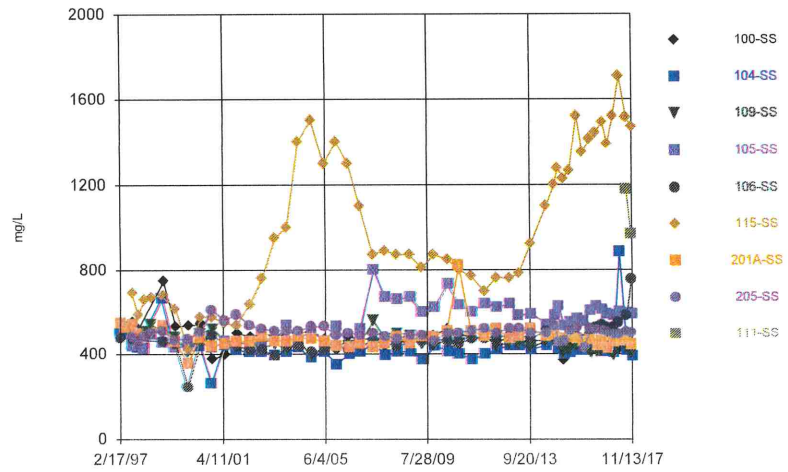
Time Series



Constituent: Thallium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

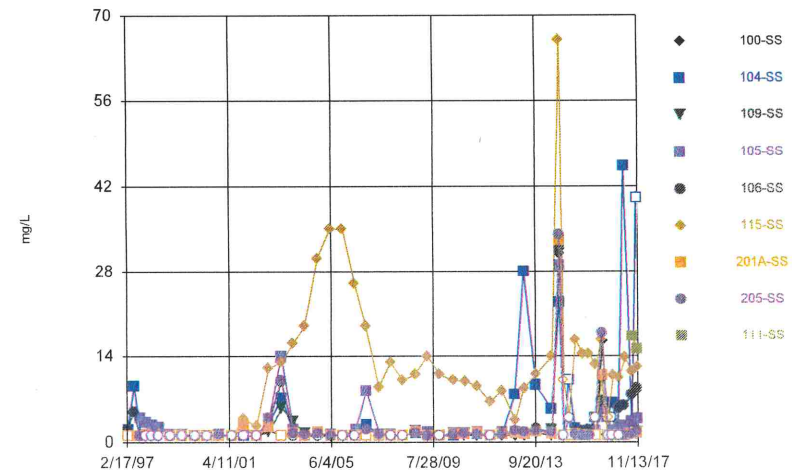
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

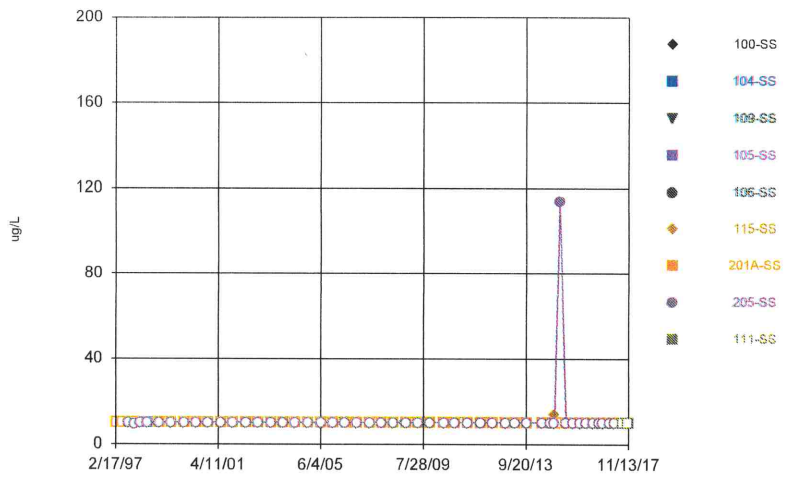
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

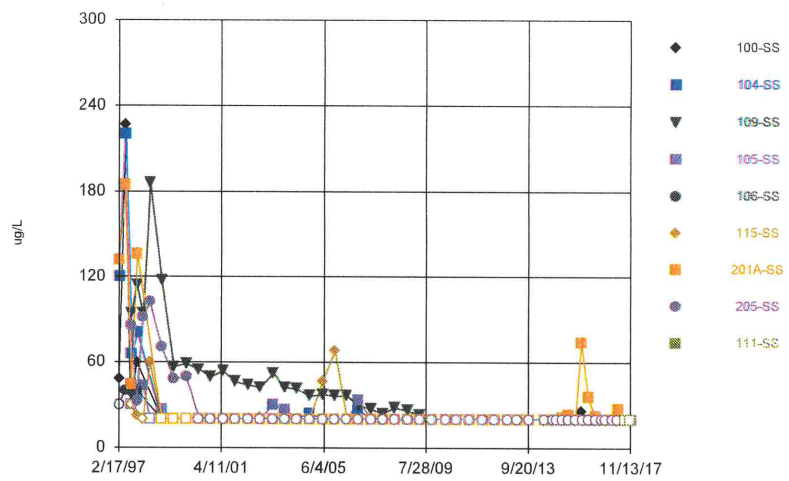
Time Series



Constituent: Vanadium Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

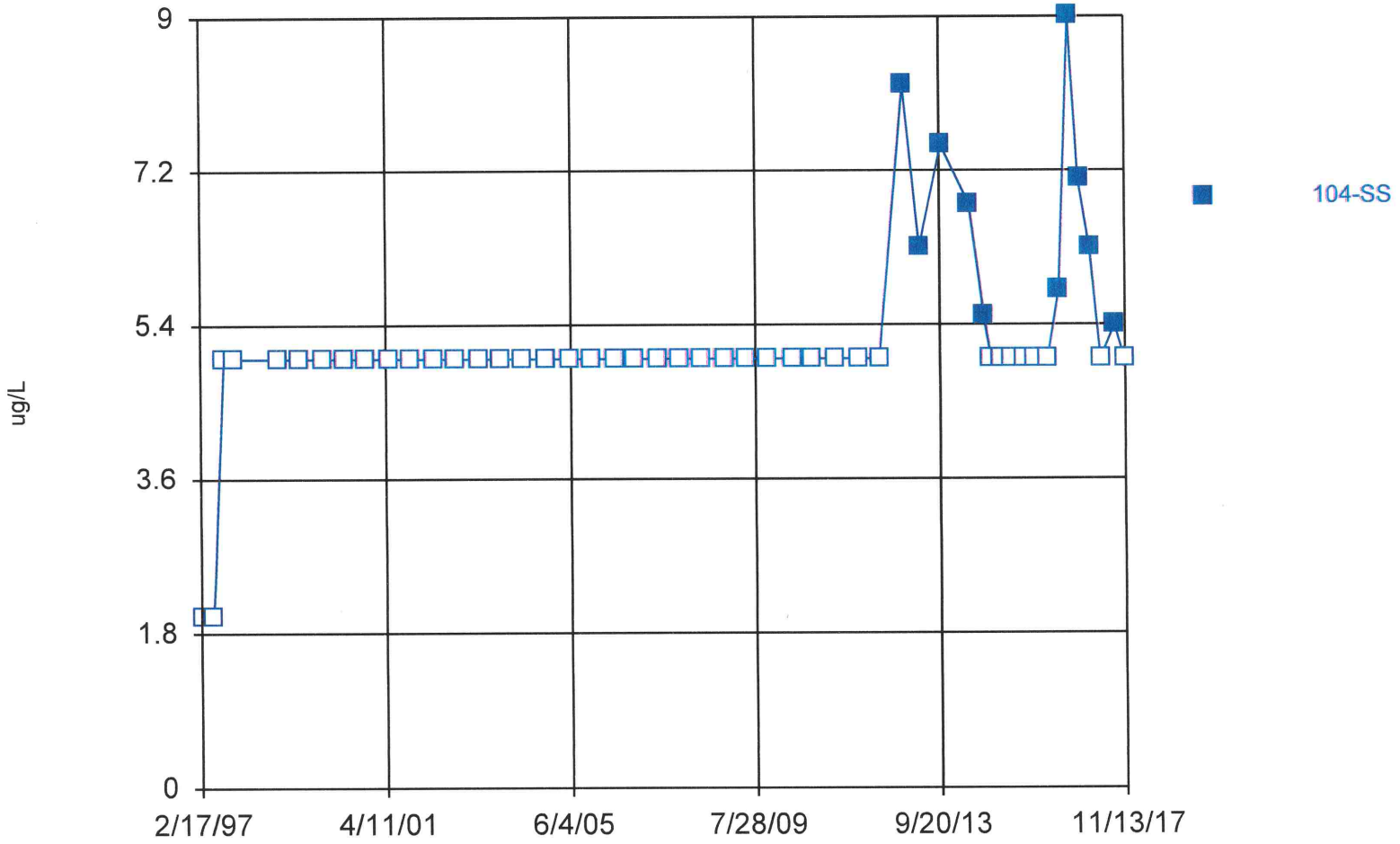
Time Series



Constituent: Zinc Total Analysis Run 12/30/2017 1:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

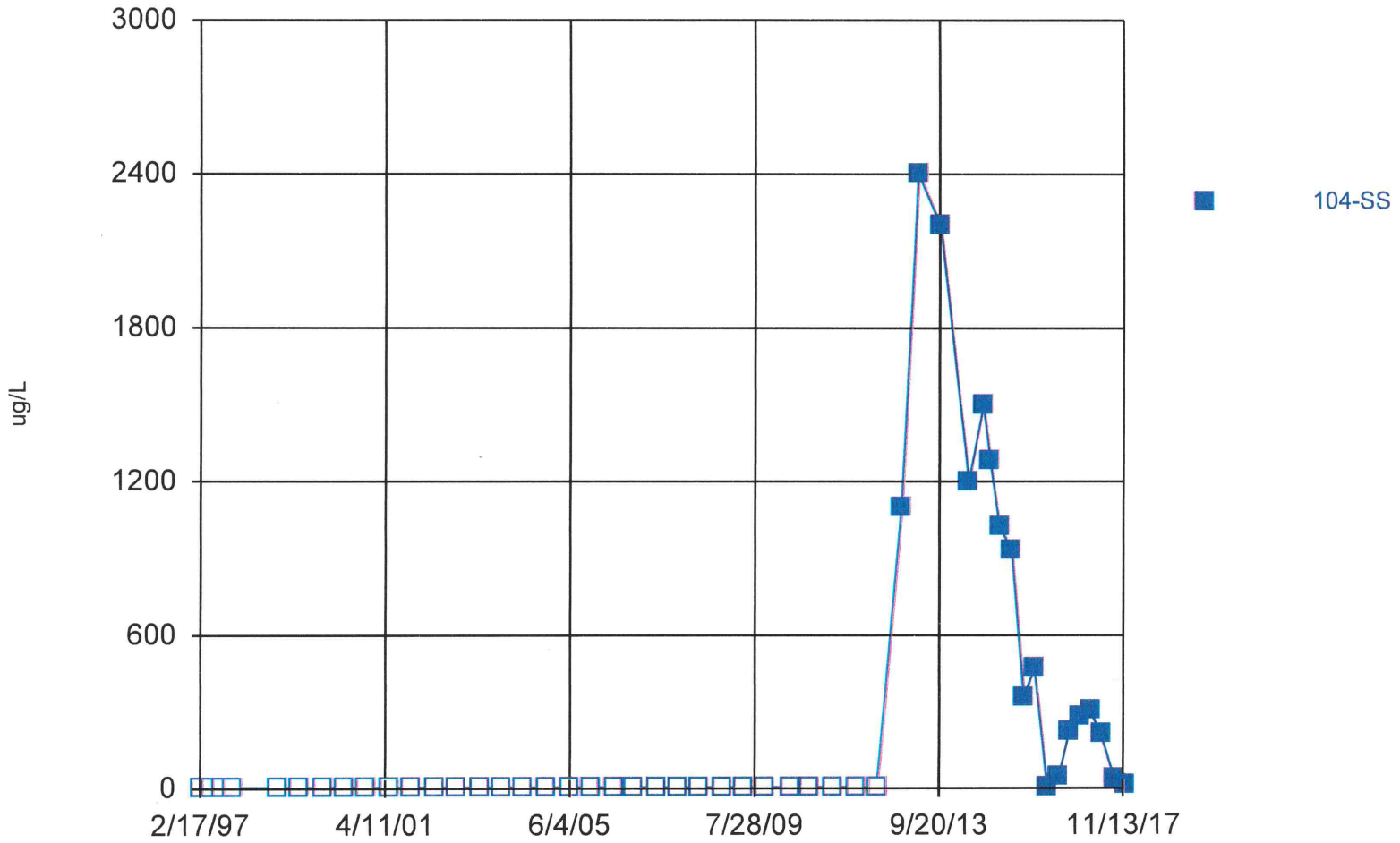


Constituent: 14-Dichlorobenzene Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

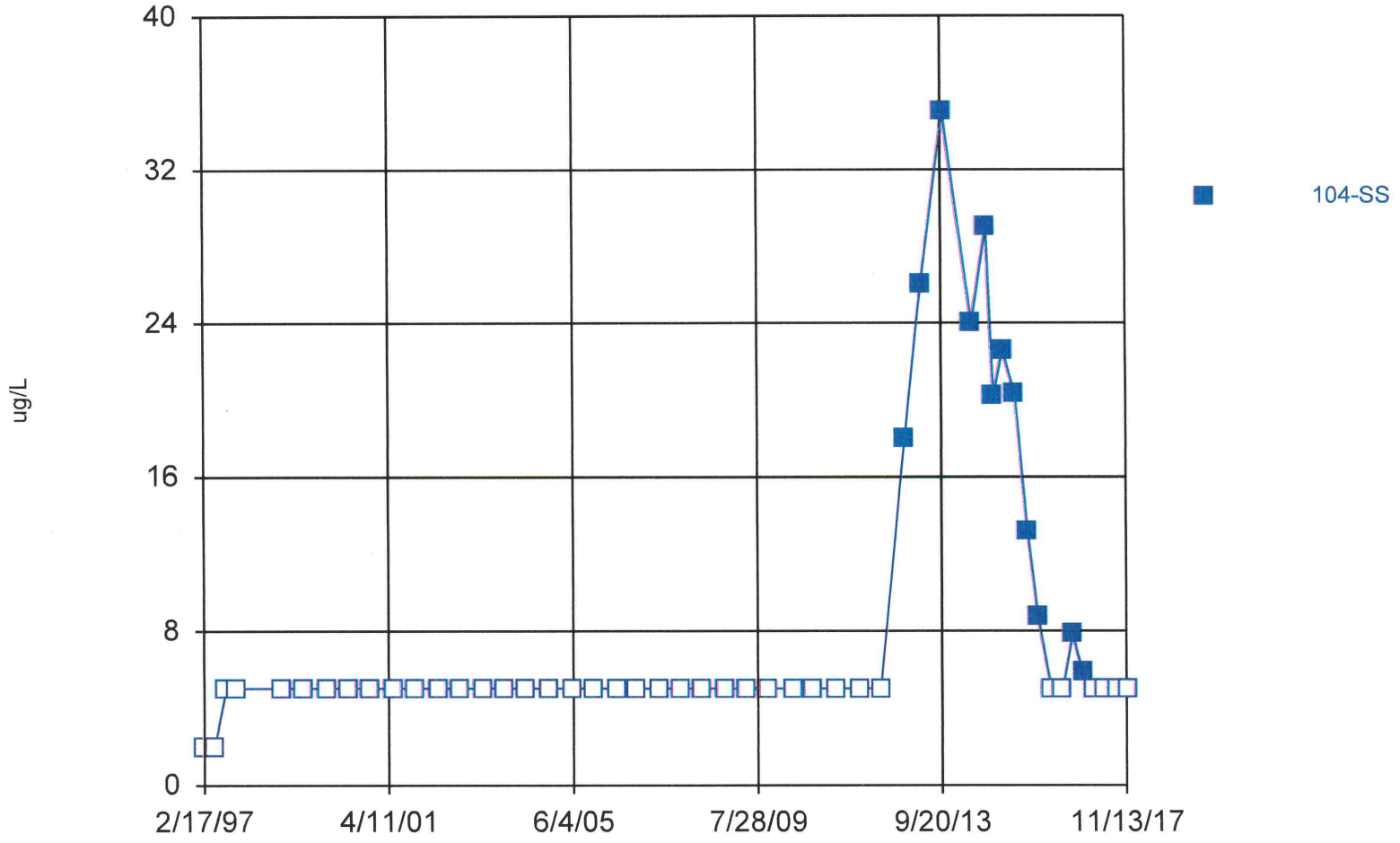


Constituent: Benzene Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

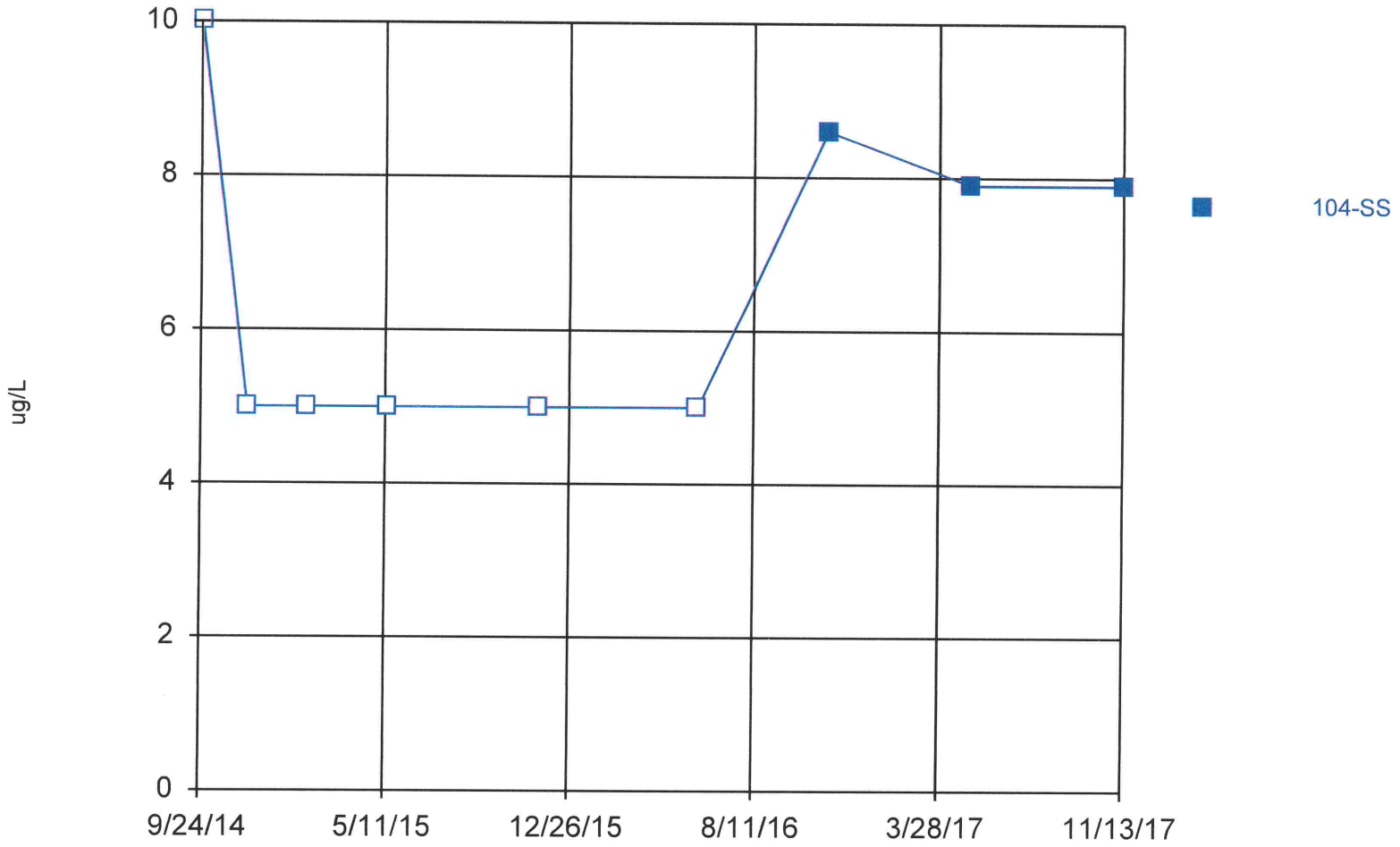


Constituent: Ethylbenzene Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

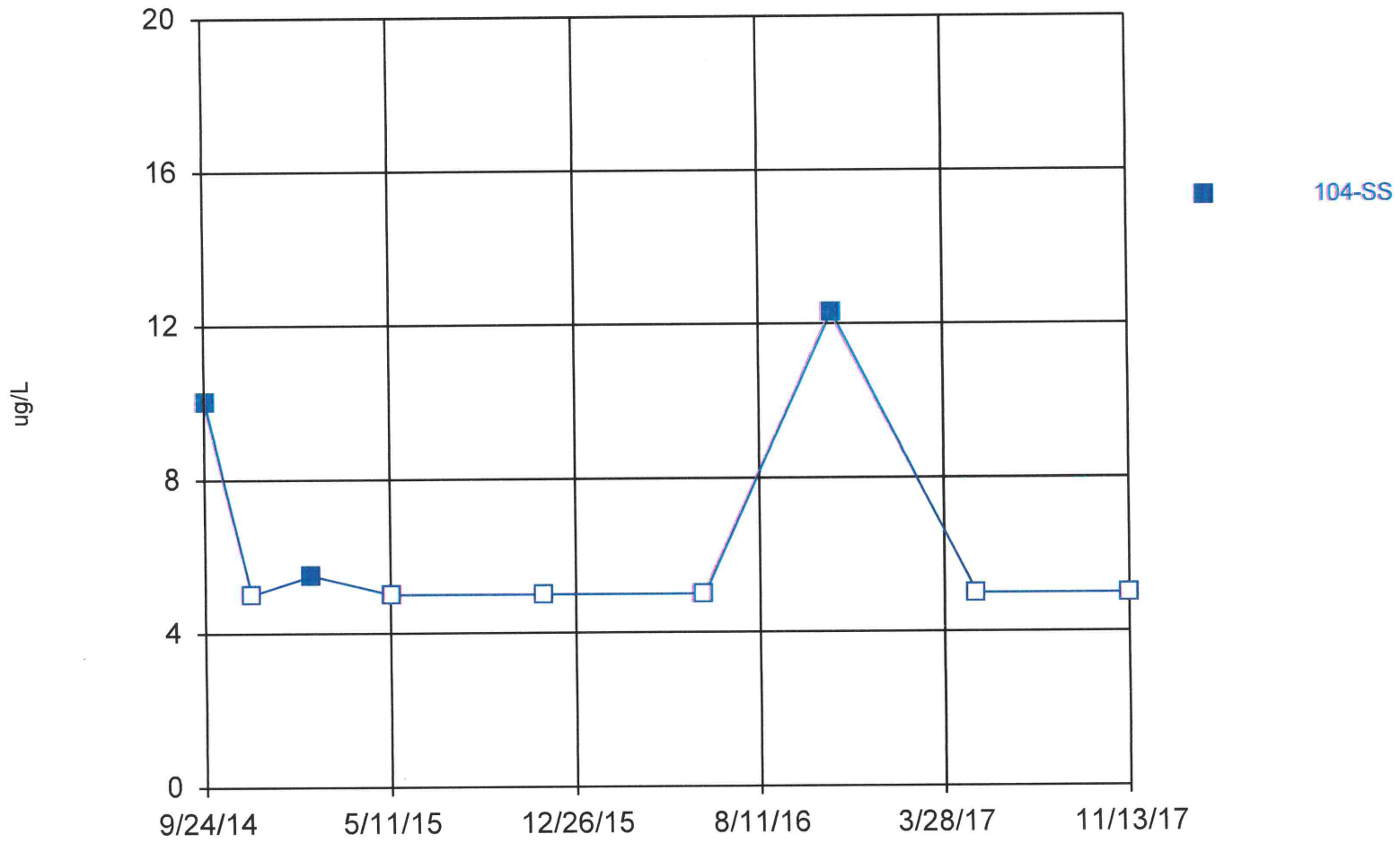


Constituent: Methyl-tert-butyl ether Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

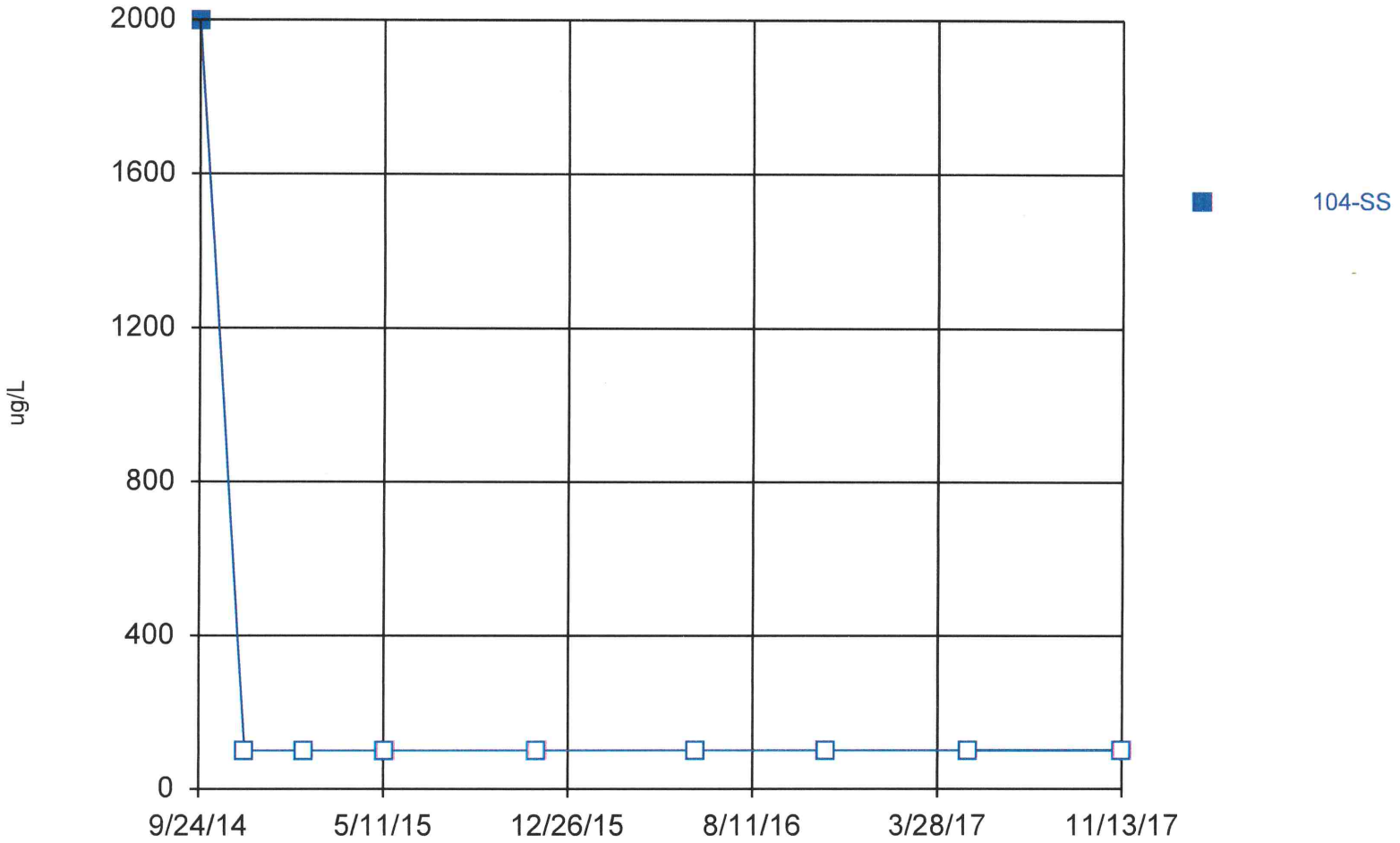


Constituent: p-Isopropyltoluene Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

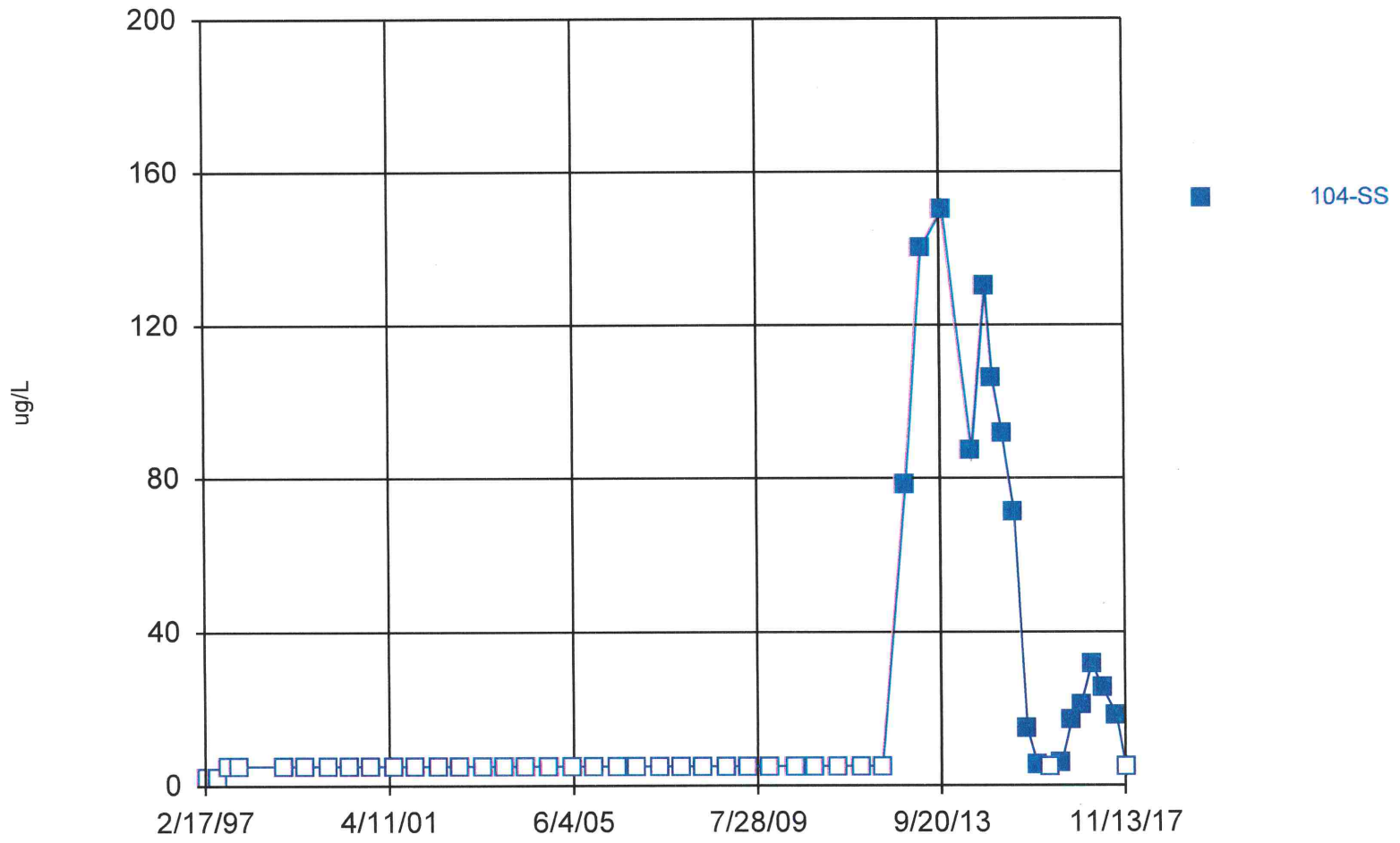


Constituent: Tetrahydrofuran Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

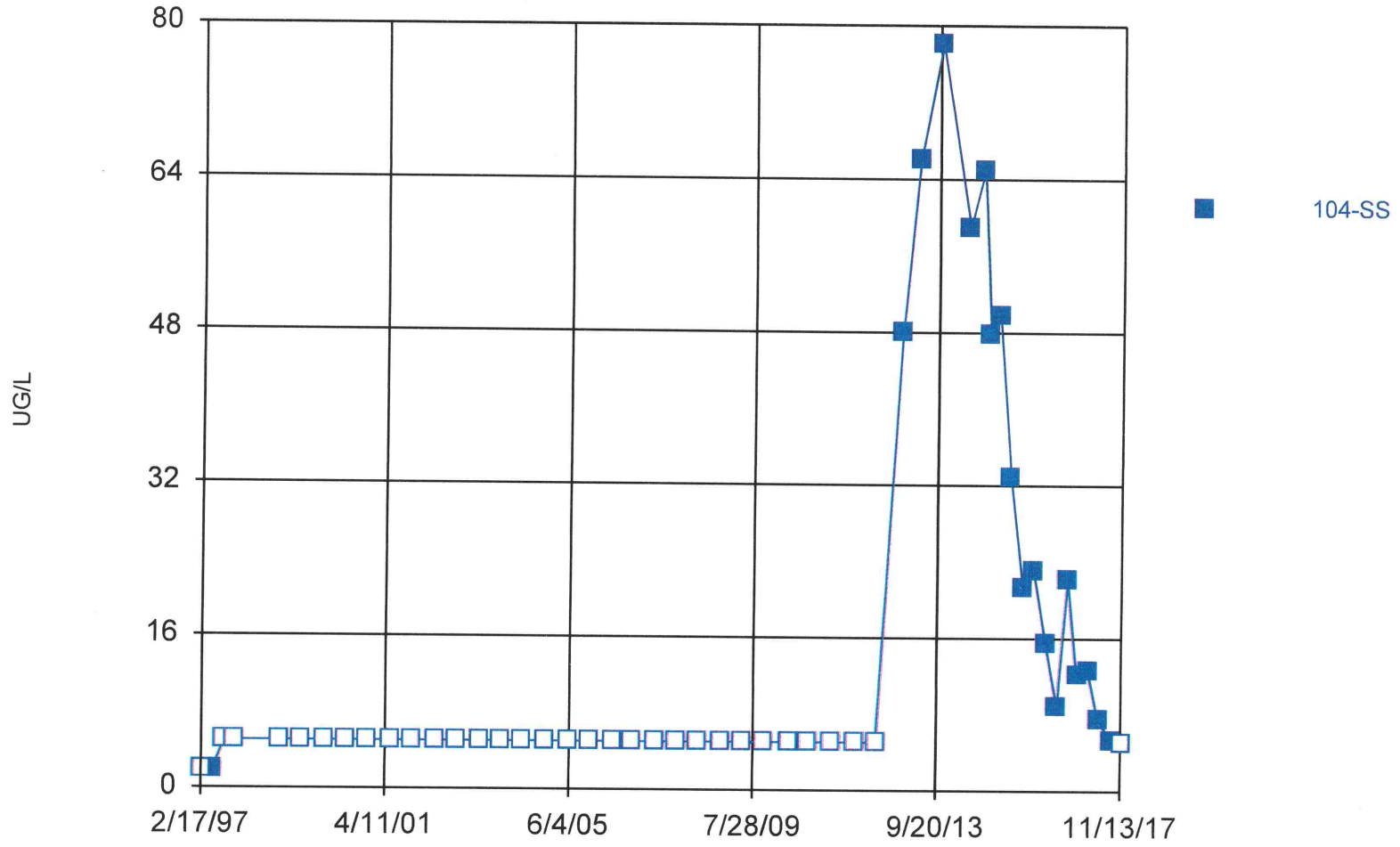


Constituent: Toluene Analysis Run 12/30/2017 2:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes [Total] Analysis Run 12/30/2017 2:45 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

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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

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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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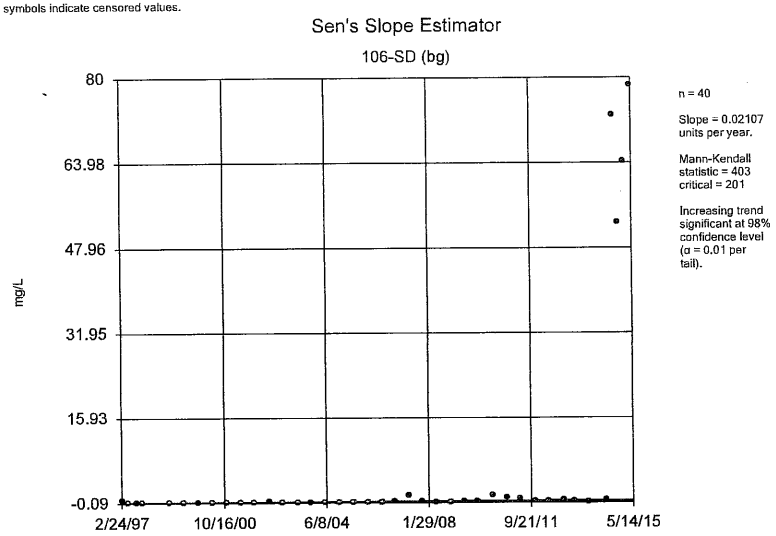

Constituent: Ammonia as N Analysis Run 1/7/2016 1:19 PM
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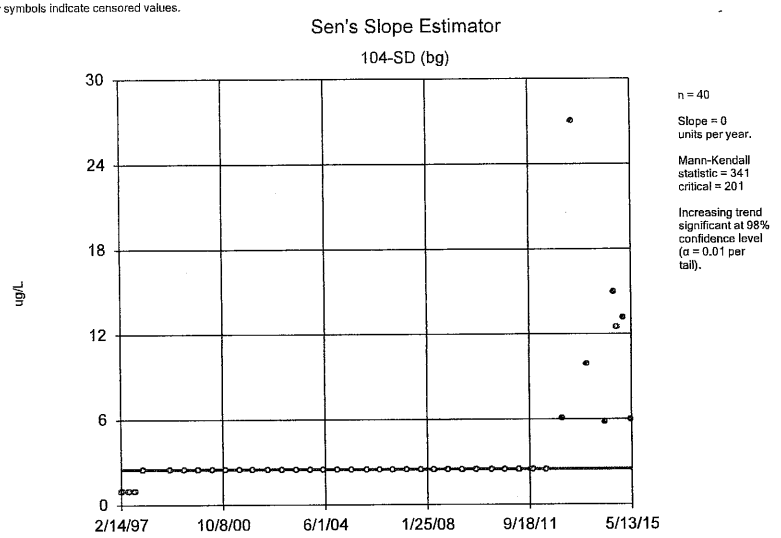

Constituent: Arsenic Total Analysis Run 1/7/2016 1:19 PM
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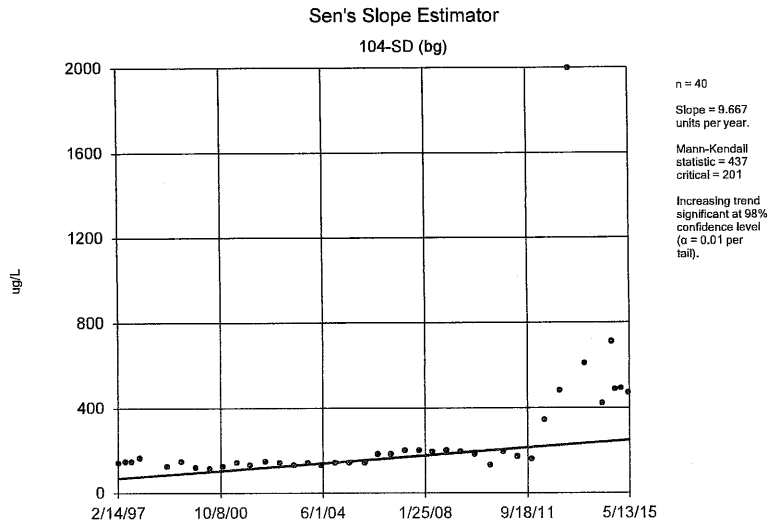

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
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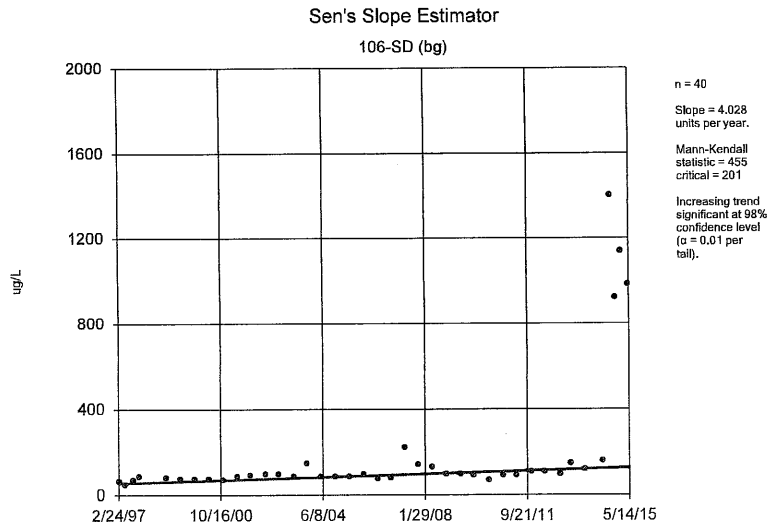

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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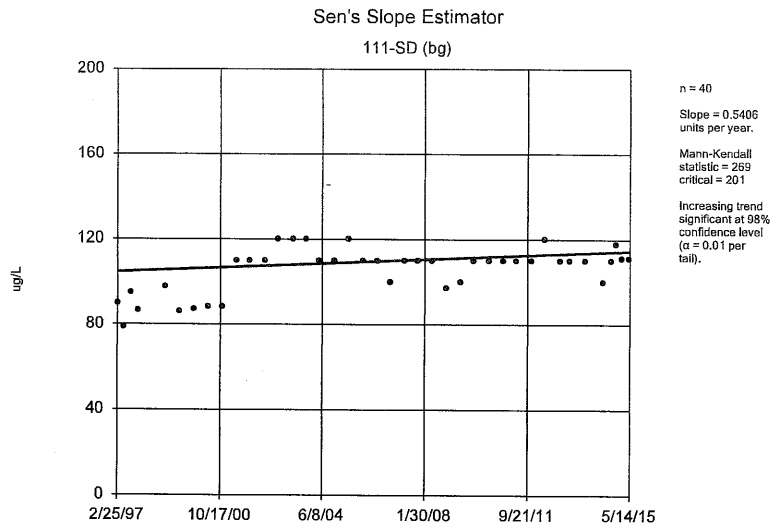

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Bridgeton LF Client: RSI Data: BRIDGETON

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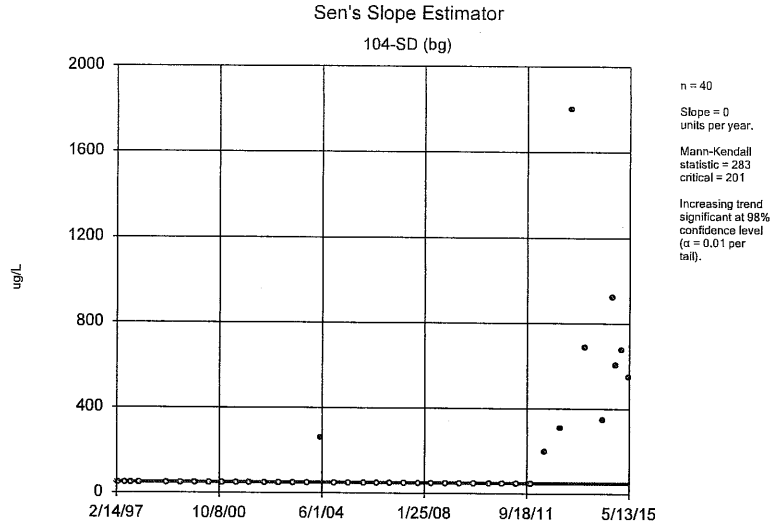

Constituent: Boron Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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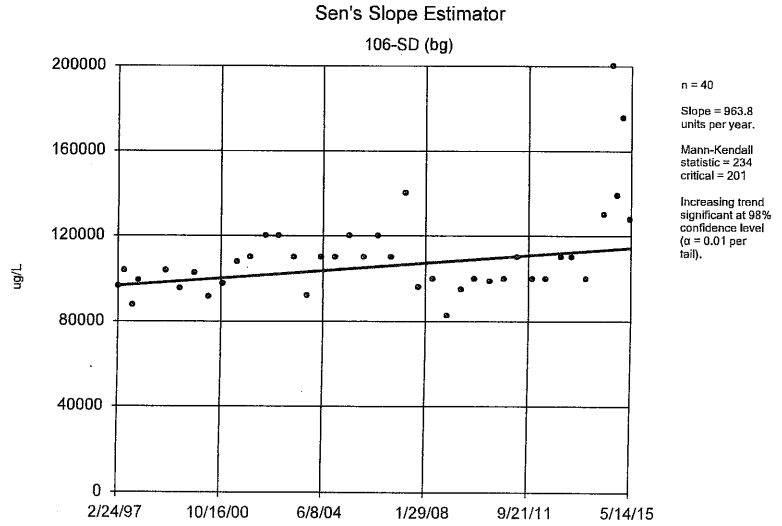

Constituent: Calcium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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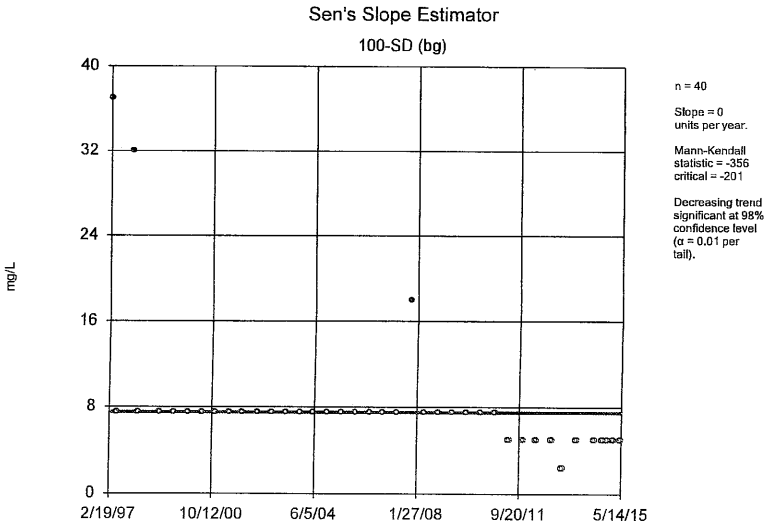
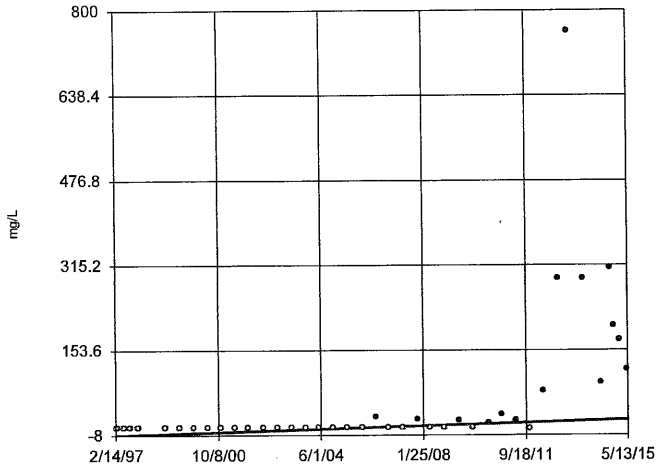


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

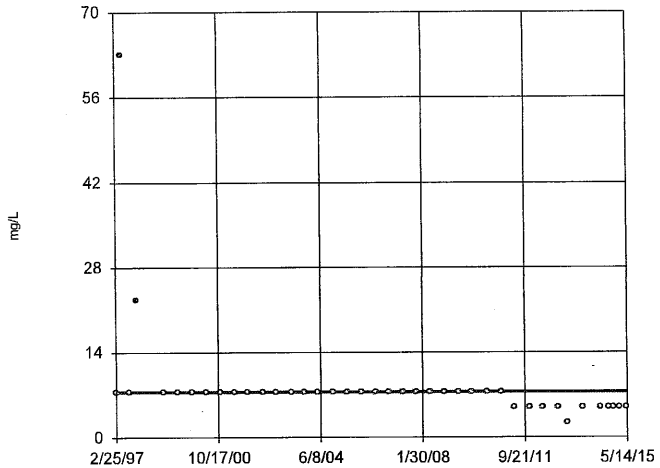
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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 = -366 critical = -201

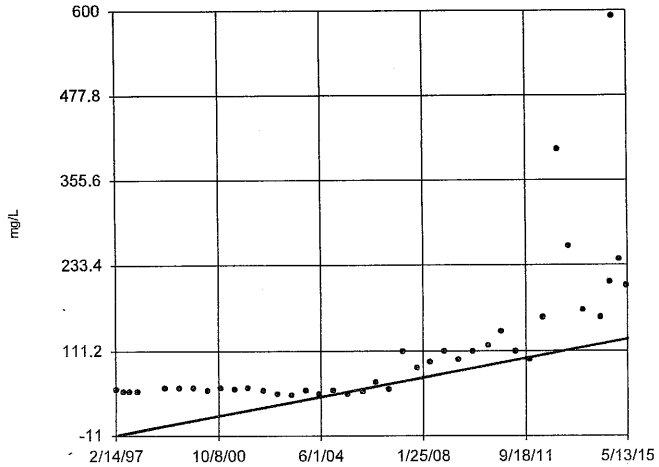
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 7.593 units per year.

Mann-Kendall statistic = 494 critical = 201

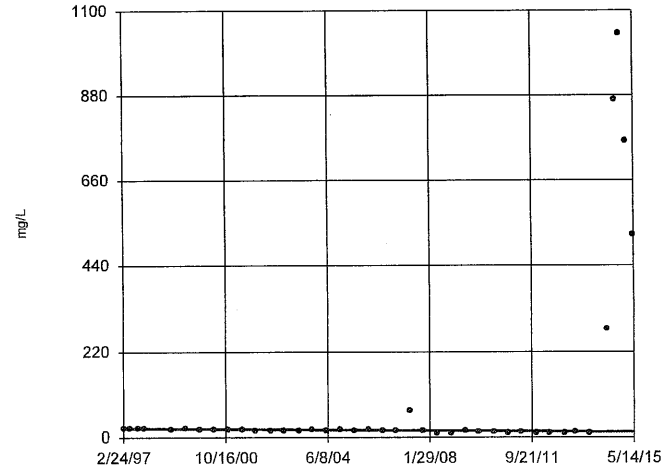
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.5238 units per year.

Mann-Kendall statistic = -243 critical = -201

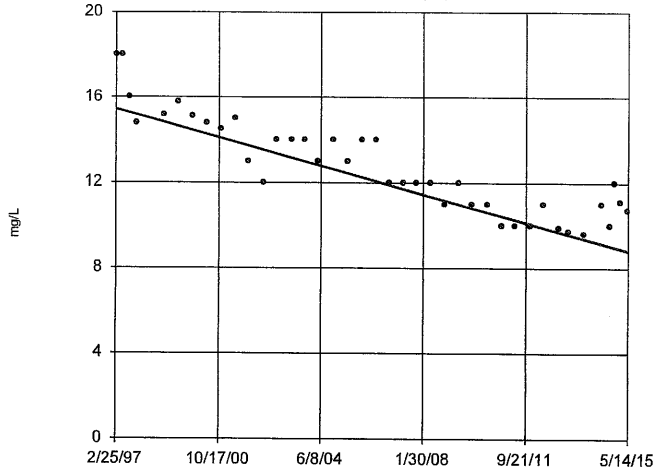
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

111-SD (bg)



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).

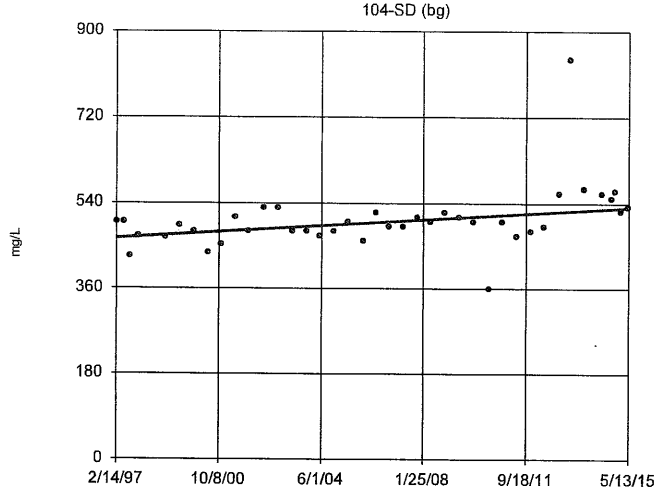
Constituent: Chloride Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

104-SD (bg)



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).

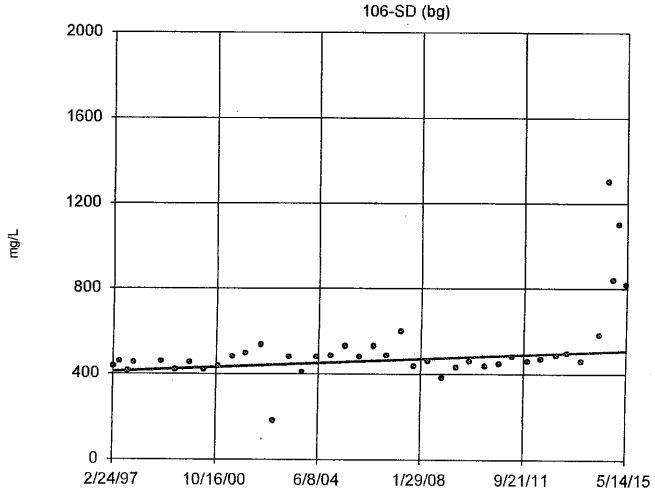
Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

106-SD (bg)



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).

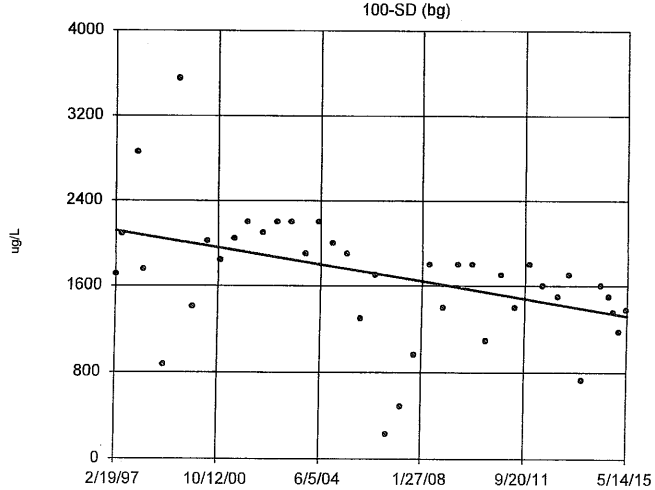
Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

100-SD (bg)



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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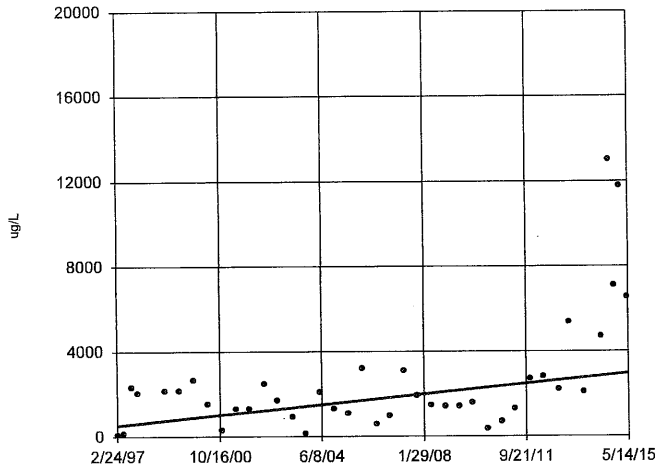
Sen's Slope Estimator

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).

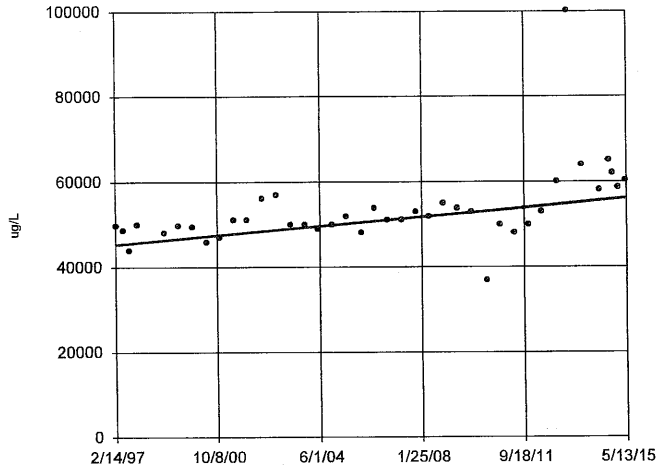
Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM

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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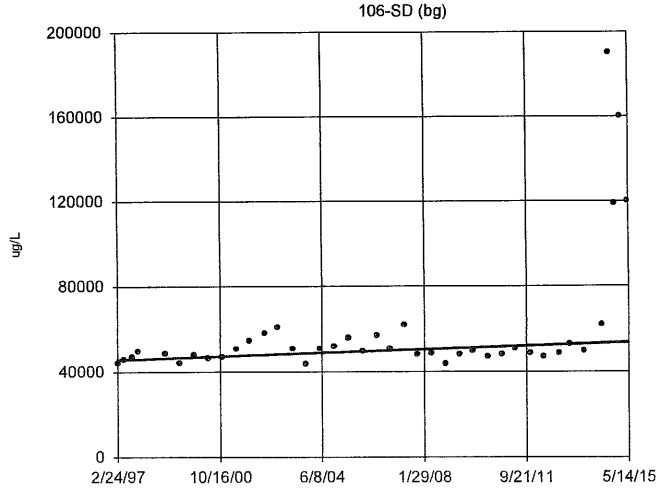
Sen's Slope Estimator

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).

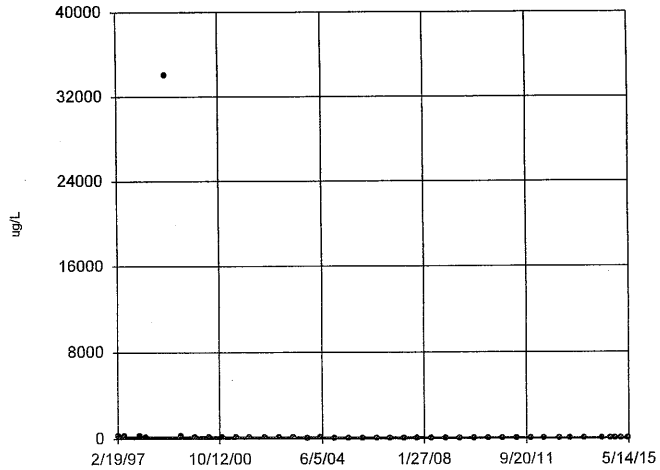
Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM

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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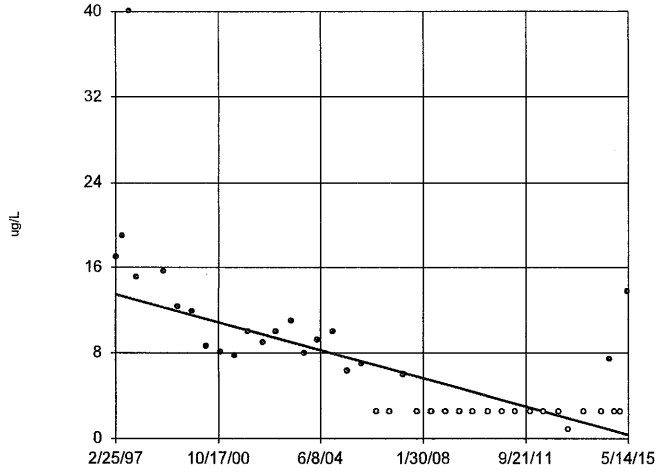
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -0.7201 units per year.

Mann-Kendall statistic = -457
critical = -201

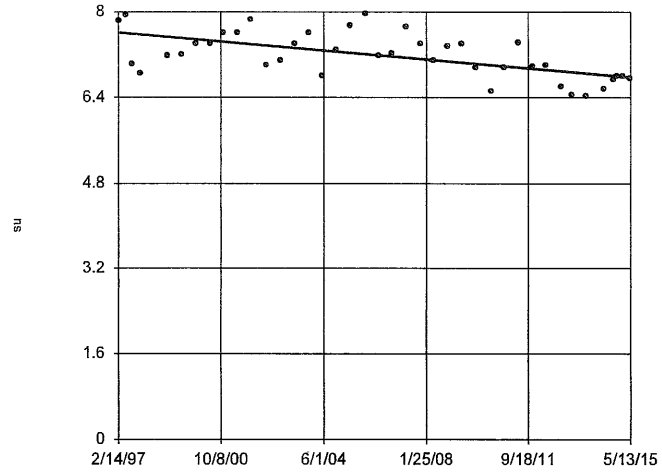
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = -0.04514 units per year.

Mann-Kendall statistic = -318
critical = -201

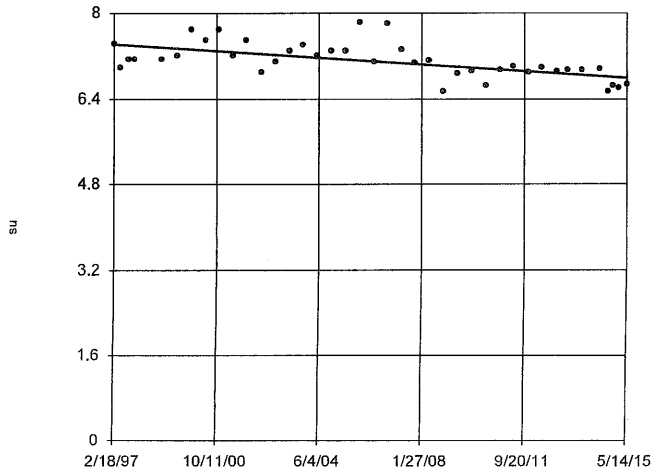
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -0.03461 units per year.

Mann-Kendall statistic = -354
critical = -201

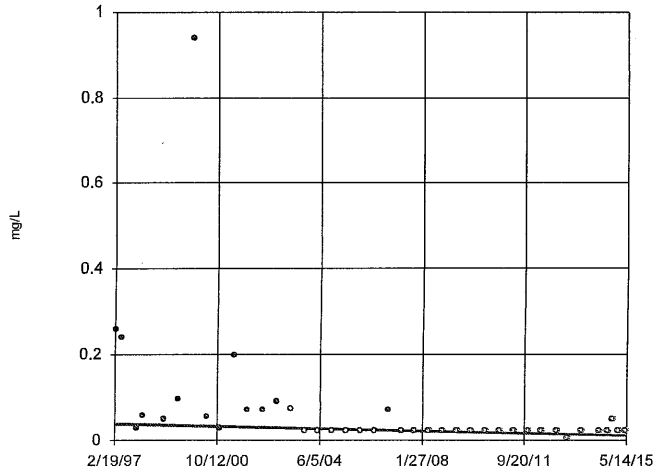
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

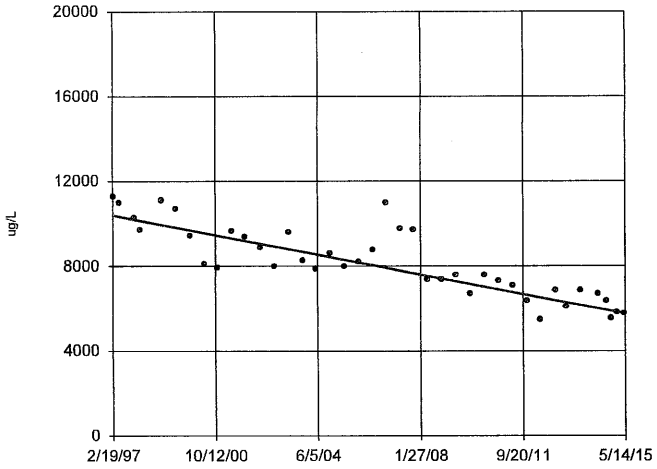
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Phosphorus Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

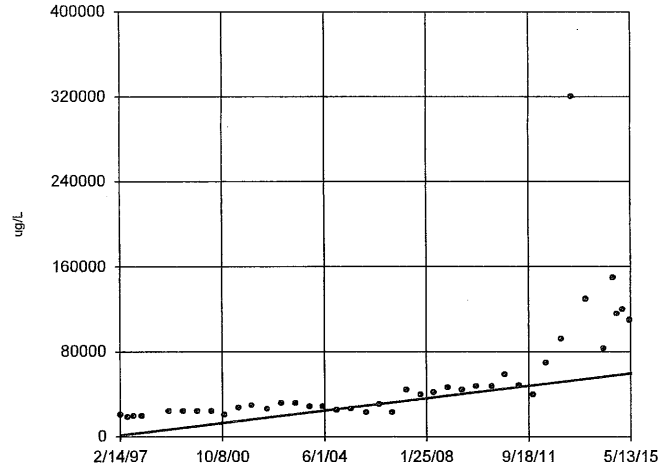
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

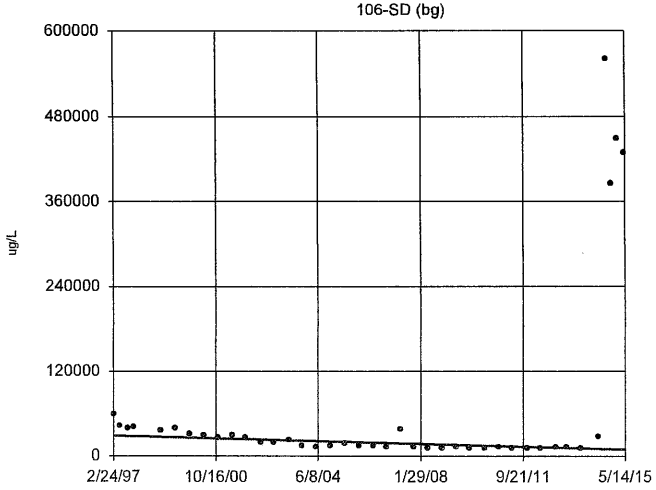
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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).

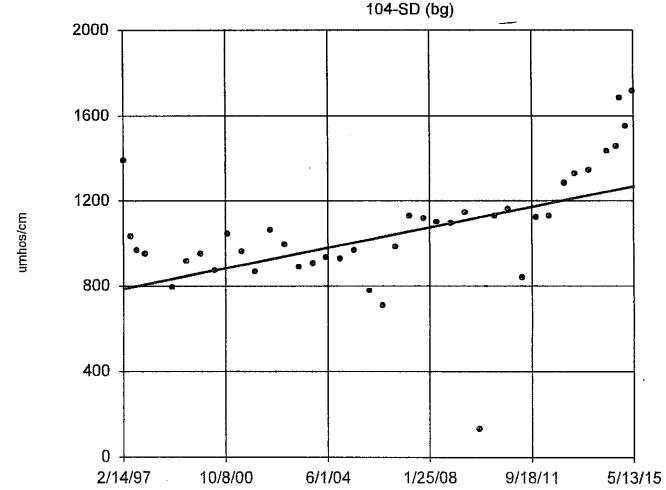
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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

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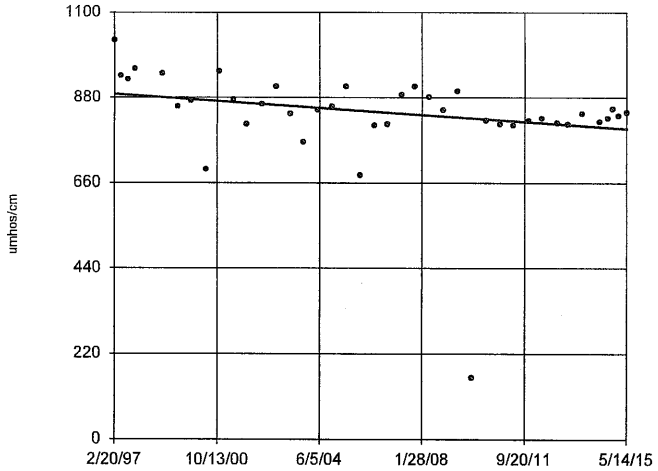
Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -4.974 units per year.

Mann-Kendall statistic = -243 critical = -201

Decreasing 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

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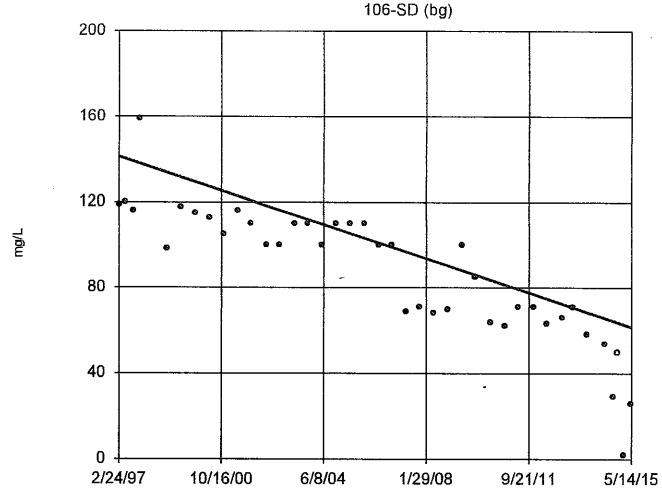
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = -4.359 units per year.

Mann-Kendall statistic = -587 critical = -201

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

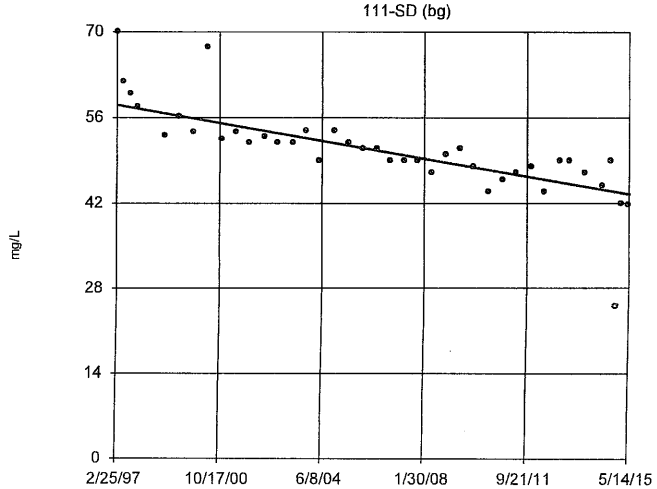
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -0.7977 units per year.

Mann-Kendall statistic = -581 critical = -201

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

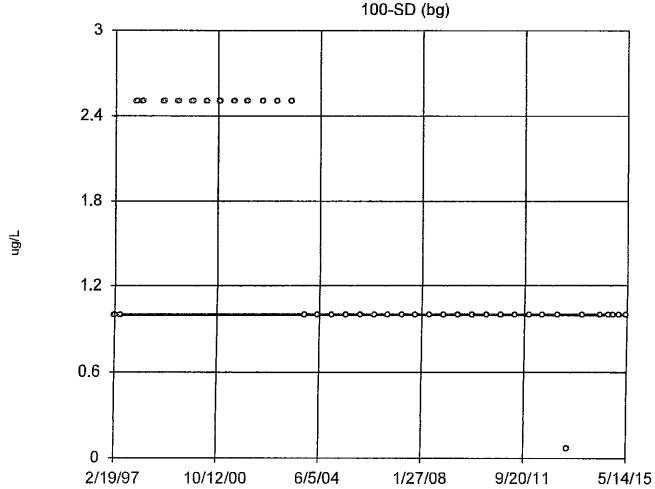
Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -303 critical = -201

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

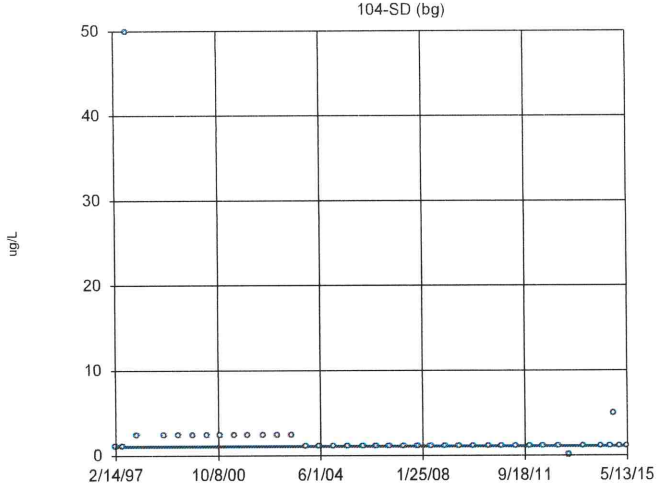
Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM

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

104-SD (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -270
critical = -201

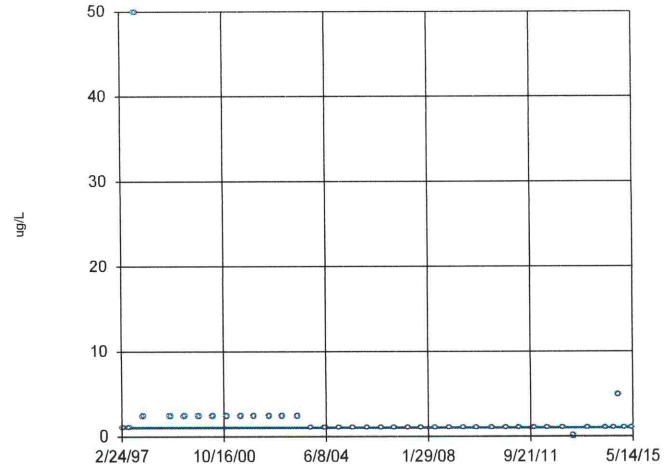
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

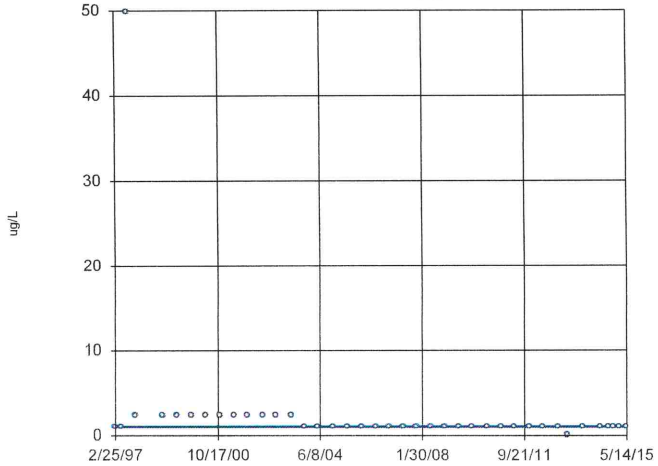
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

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

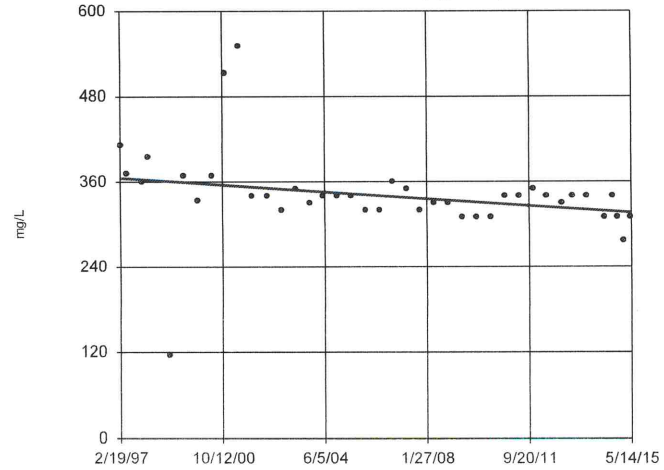
Decreasing trend
significant at 98%
confidence level
(α = 0.01 per
tail).

Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

100-SD (bg)



n = 40

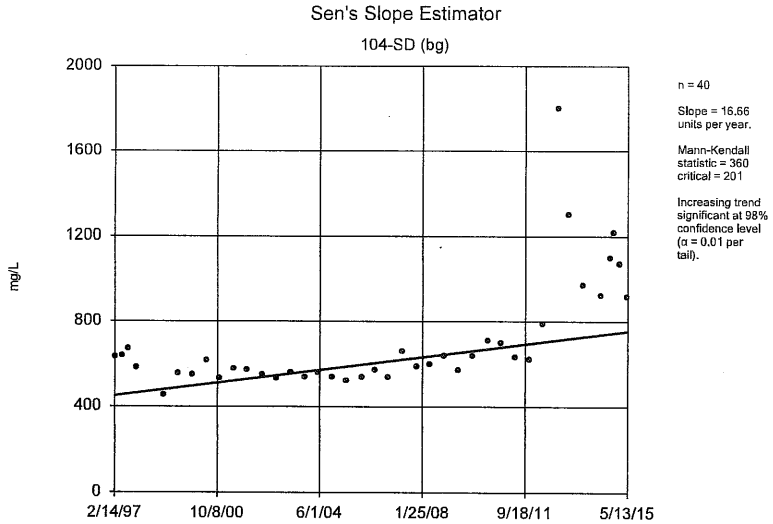
Slope = -2.689
units per year.

Mann-Kendall
statistic = -301
critical = -201

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

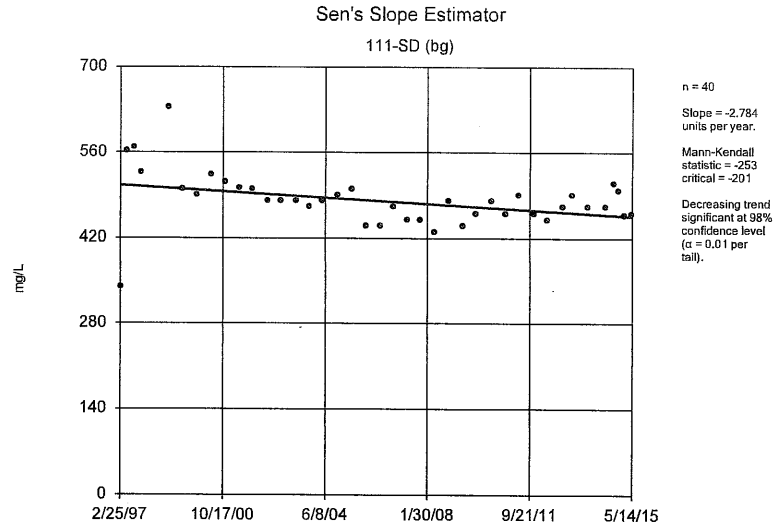
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



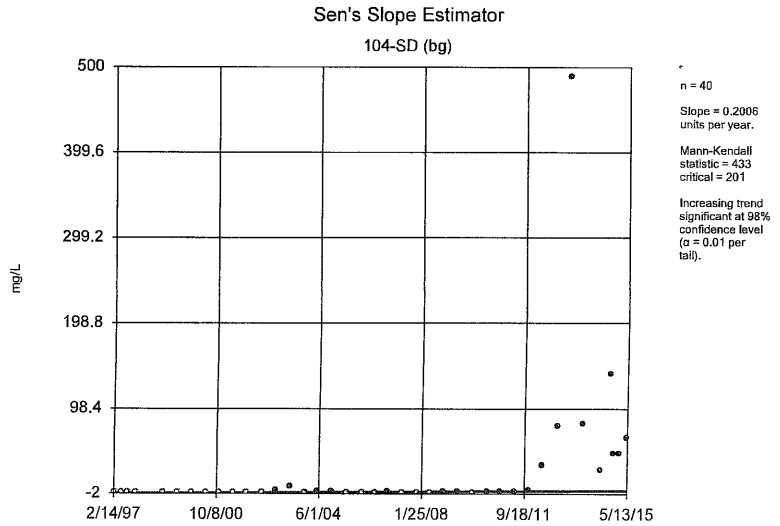
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



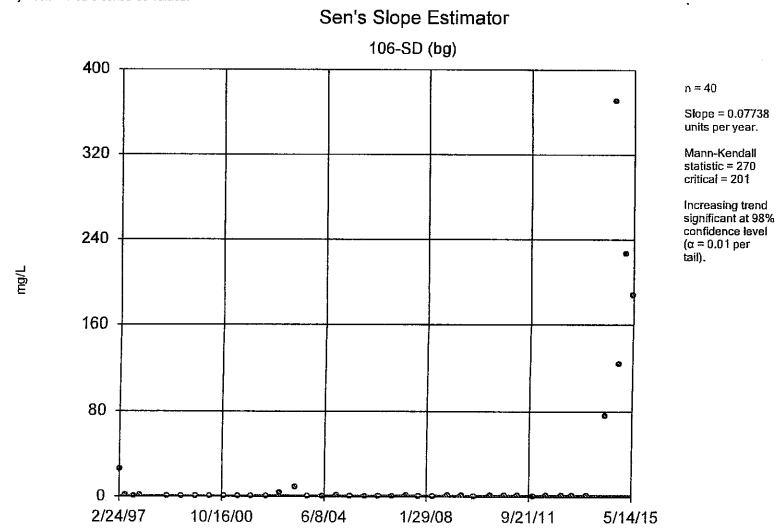
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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



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.



Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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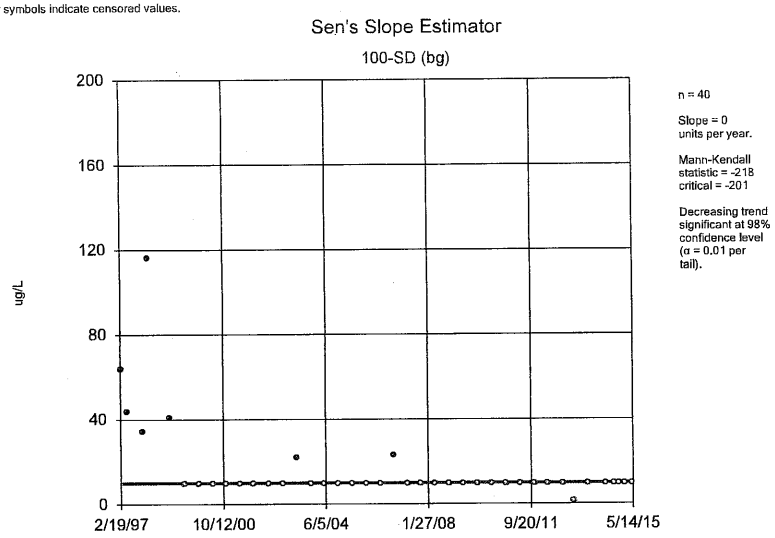
Hollow symbols indicate censored values.



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 12/30/2017, 12:00 PM

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)	104-SD	66	n/a	11/13/2017	34.9	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)	100-SD	0.63	n/a	11/7/2017	0.35	No	37	0.4359	0.07903	0	None	No	0.0001937	Param Intra 1 of 2
Ammonia as N (mg/L)	111-SD	0.35	n/a	11/6/2017	0.05ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SD	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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	5.0	n/a	11/6/2017	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)	104-SD	27	n/a	11/13/2017	16.5	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	11/6/2017	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)	100-SD	15	n/a	11/7/2017	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)	111-SD	5.3	n/a	11/6/2017	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	11/7/2017	323	No	40	7.4e9	2.2e9	0	None	x^4	0.0001937	Param Intra 1 of 2
Beryllium Total (ug/L)	104-SD	2.0	n/a	11/13/2017	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	2.0	n/a	11/6/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	100-SD	2.2	n/a	11/7/2017	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)	111-SD	2.0	n/a	11/6/2017	1ND	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	11/13/2017	817	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	11/6/2017	407	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	100-SD	100	n/a	11/7/2017	50ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	111-SD	100	n/a	11/6/2017	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)	104-SD	0.20	n/a	11/13/2017	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	11/6/2017	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)	100-SD	2.5	n/a	11/7/2017	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	0.20	n/a	11/6/2017	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)	104-SD	170000	n/a	11/13/2017	93200	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	100-SD	88000	n/a	11/7/2017	80200	No	40	11.25	0.05606	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	111-SD	100000	n/a	11/6/2017	93700	No	38	7.5e14	1.2e14	0	None	x^3	0.0001937	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	11/6/2017	42.2	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)	100-SD	37	n/a	11/7/2017	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)	111-SD	63	n/a	11/6/2017	5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	106-SD	1000	n/a	11/6/2017	143	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chloride (mg/L)	100-SD	13	n/a	11/7/2017	1.9	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Chloride (mg/L)	111-SD	19	n/a	11/6/2017	10.8	No	40	2.531	0.173	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Chromium Total (ug/L)	104-SD	13	n/a	11/13/2017	9.8	No	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	11/6/2017	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)	100-SD	13	n/a	11/7/2017	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)	111-SD	22	n/a	11/6/2017	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)	104-SD	10	n/a	11/13/2017	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	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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)	111-SD	5.0	n/a	11/6/2017	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	11/13/2017	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)	106-SD	47	n/a	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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)	111-SD	10	n/a	11/6/2017	2.5ND	No	40	n/a	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	104-SD	1	n/a	11/13/2017	0.9	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	11/6/2017	1.2	No	23	1.552	0.68	0	None	x^3	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	100-SD	2.4	n/a	11/7/2017	2	No	26	4.154	0.6542	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	111-SD	2.4	n/a	11/6/2017	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	11/7/2017	343	No	39	5.824	0.04847	0	None	ln(x)	0.0001937	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 12:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Hardness Total (mg/L)	111-SD	500	n/a	11/6/2017	446	No	38	7.638	0.1242	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	104-SD	31000	n/a	11/13/2017	8370	No	40	7.096	1.332	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	100-SD	2900	n/a	11/7/2017	560	No	39	1623	514.4	0	None	No	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	111-SD	8200	n/a	11/6/2017	935	No	40	6.026	1.228	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Lead Total (ug/L)	104-SD	5.0	n/a	11/13/2017	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	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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)	111-SD	5.0	n/a	11/6/2017	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	11/7/2017	34600	No	40	10.48	0.04911	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Magnesium Total (ug/L)	111-SD	60000	n/a	11/6/2017	51400	No	39	10.89	0.0489	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	104-SD	200	n/a	11/13/2017	118	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	11/6/2017	18.9	No	40	5.302	1.222	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	100-SD	34000	n/a	11/7/2017	51.4	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Manganese Total (ug/L)	111-SD	40	n/a	11/6/2017	11	No	40	n/a	n/a	45	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	104-SD	0.20	n/a	11/13/2017	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	0.20	n/a	11/6/2017	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)	100-SD	0.20	n/a	11/7/2017	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	0.20	n/a	11/6/2017	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)	104-SD	60	n/a	11/13/2017	53	No	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	11/6/2017	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SD	10	n/a	11/7/2017	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	111-SD	10	n/a	11/6/2017	5ND	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	11/13/2017	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-SD	0.30	n/a	11/6/2017	0.25ND	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-SD	0.10	n/a	11/7/2017	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)	111-SD	5.0	n/a	11/6/2017	0.25ND	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	11/7/2017	7.29	No	39	1.993	0.04354	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	111-SD	8.1	6.4	11/6/2017	7.14	No	39	1.976	0.04679	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	104-SD	0.29	n/a	11/13/2017	0.13	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	11/6/2017	0.025ND	No	40	0.09779	0.05309	15	None	No	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SD	0.94	n/a	11/7/2017	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)	111-SD	0.37	n/a	11/6/2017	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)	104-SD	5.0	n/a	11/13/2017	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	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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)	111-SD	5.0	n/a	11/6/2017	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-SD	5.0	n/a	11/13/2017	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	5.0	n/a	11/6/2017	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)	100-SD	5.0	n/a	11/7/2017	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)	111-SD	5.0	n/a	11/6/2017	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)	106-SD	560000	n/a	11/6/2017	80200	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sodium Total (ug/L)	100-SD	13000	n/a	11/7/2017	6740	No	40	20.08	1.372	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	111-SD	25000	n/a	11/6/2017	18200	No	38	9.94	0.08286	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**106-SD**	**1200**	**n/a**	**11/6/2017**	**1493**	**Yes**	**36**	**6.803**	**0.1014**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	100-SD	710	n/a	11/7/2017	608	No	39	2.5e8	4.1e7	0	None	x^3	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	111-SD	1000	n/a	11/6/2017	839	No	39	731124	112677	0	None	x^2	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	104-SD	100	n/a	11/13/2017	1.3	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	11/6/2017	55.9	No	40	87.24	31.12	2.5	None	No	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	100-SD	15	n/a	11/7/2017	9.8	No	40	2.323	0.1561	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	111-SD	67	n/a	11/6/2017	45.5	No	39	3.932	0.1116	0	None	ln(x)	0.0001937	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 12:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Thallium Total (ug/L)	104-SD	2.0	n/a	11/13/2017	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	2.0	n/a	11/6/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	100-SD	2.0	n/a	11/7/2017	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	2.0	n/a	11/6/2017	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)	106-SD	700	n/a	11/6/2017	564	No	36	538.1	65.86	0	None	No	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SD	400	n/a	11/7/2017	296	No	37	5.819	0.07451	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	111-SD	560	n/a	11/6/2017	440	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	11/7/2017	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)	111-SD	30	n/a	11/6/2017	1.8	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	104-SD	38	n/a	11/13/2017	5ND	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	11/6/2017	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	100-SD	10	n/a	11/7/2017	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	111-SD	33	n/a	11/6/2017	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)	104-SD	96	n/a	11/13/2017	10ND	No	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	11/6/2017	10ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SD	120	n/a	11/7/2017	10ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	111-SD	100	n/a	11/6/2017	10ND	No	40	n/a	n/a	82.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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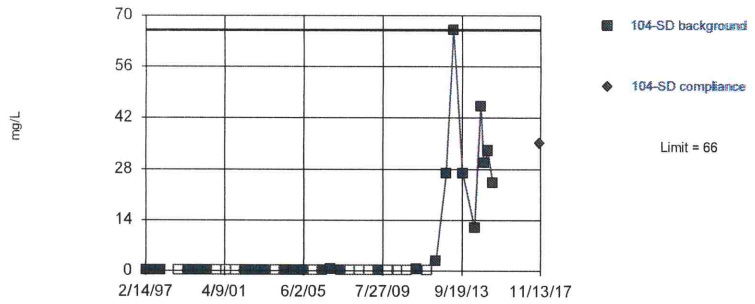
Hollow symbols indicate censored values.

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.

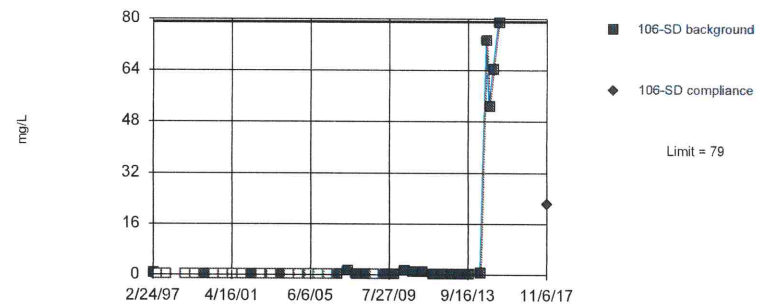
Constituent: Ammonia as N Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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. 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.

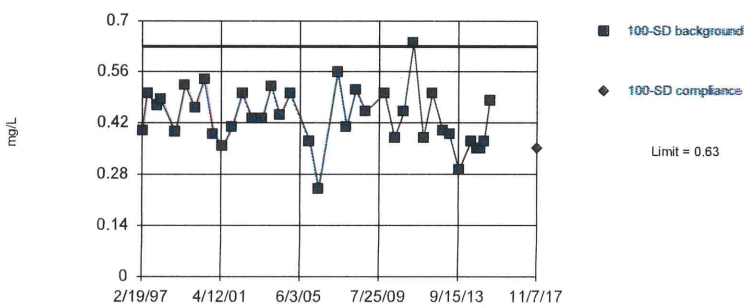
Constituent: Ammonia as N Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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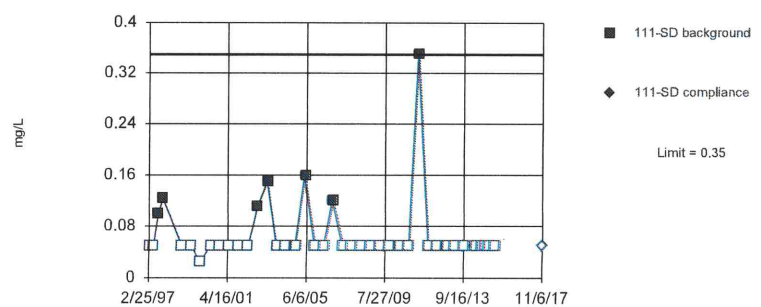
Hollow symbols indicate censored values.

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.

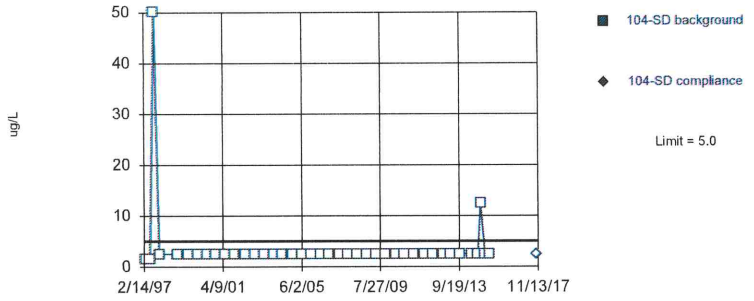
Constituent: Ammonia as N Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

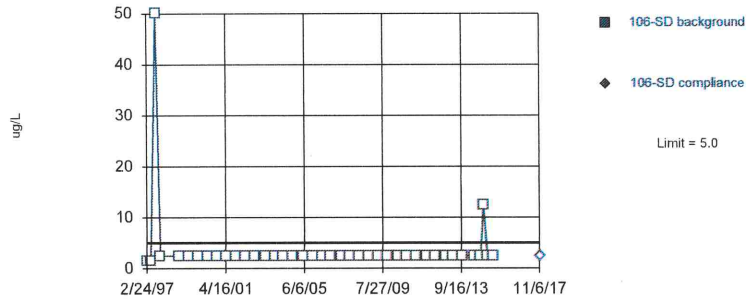
Constituent: Antimony Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

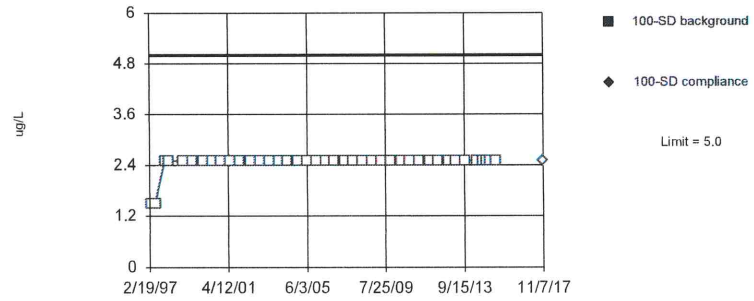
Constituent: Antimony Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

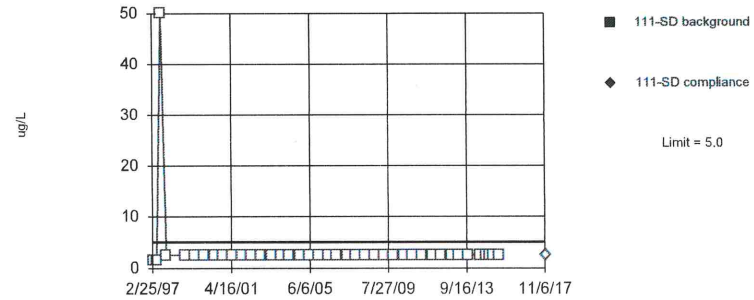
Constituent: Antimony Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

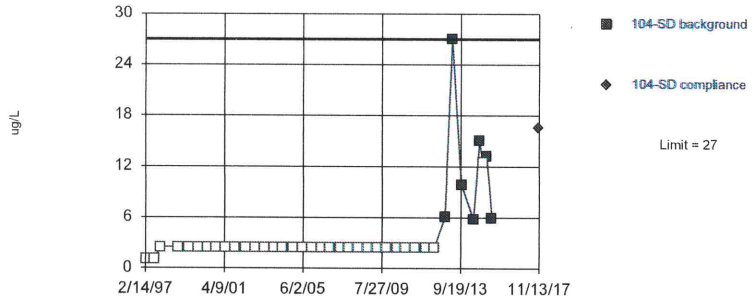
Constituent: Antimony Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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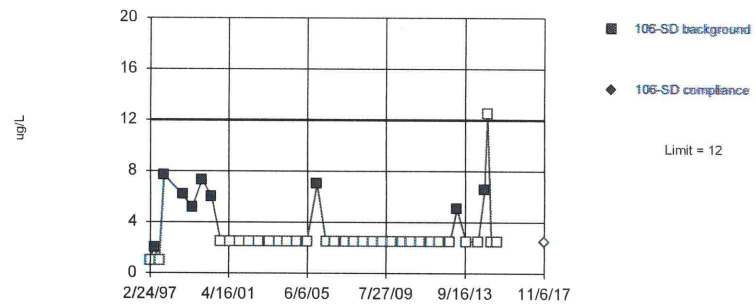
Hollow symbols indicate censored values.

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. 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.

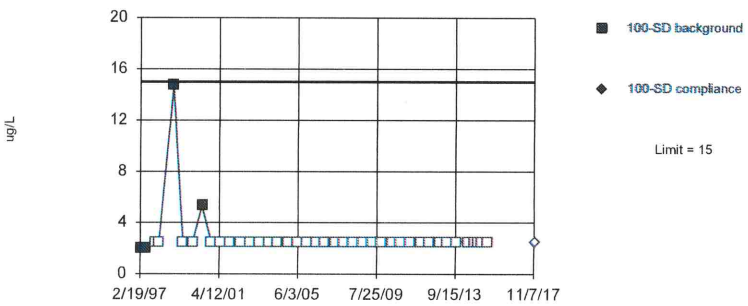
Constituent: Arsenic Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

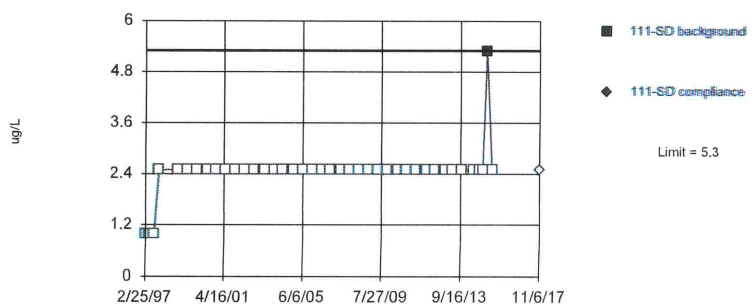
Constituent: Arsenic Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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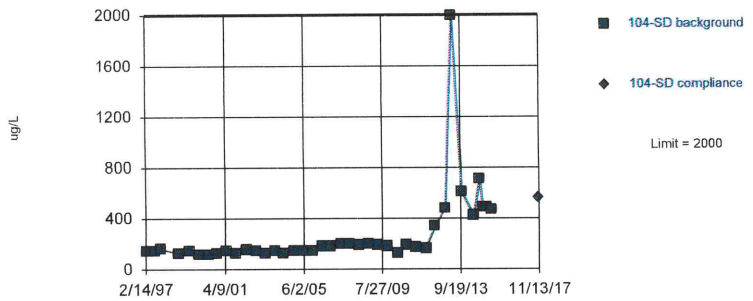
Within Limit

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 12/30/2017 11:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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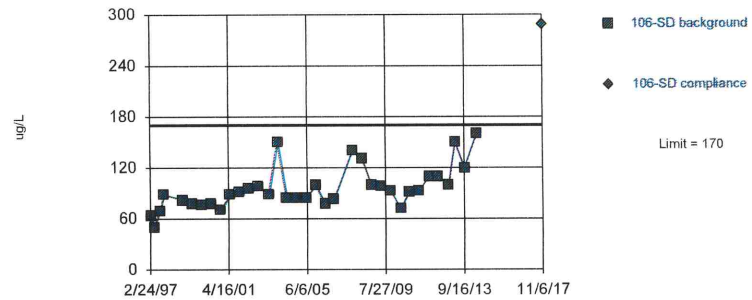
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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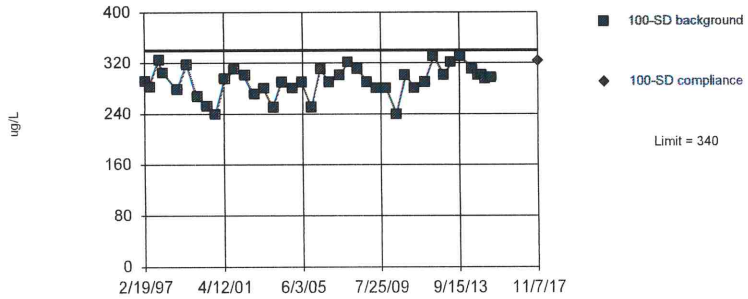
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=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 12/30/2017 11:56 AM

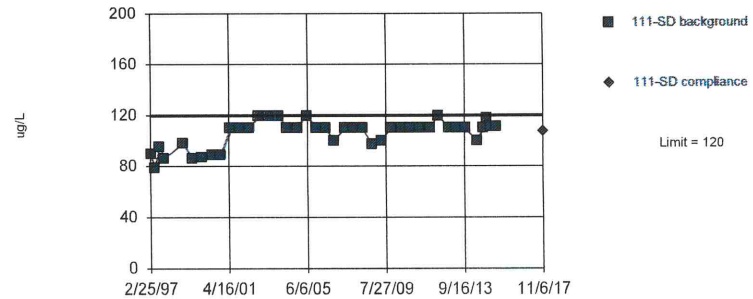
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

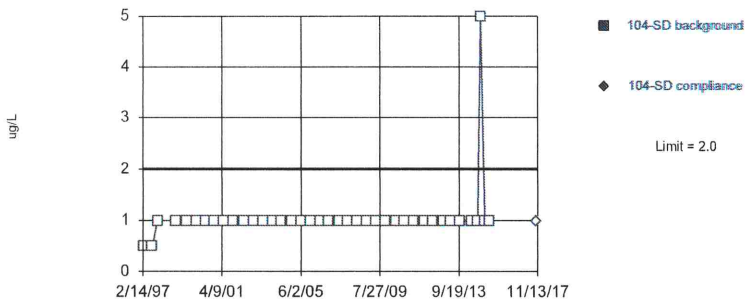
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:56 AM

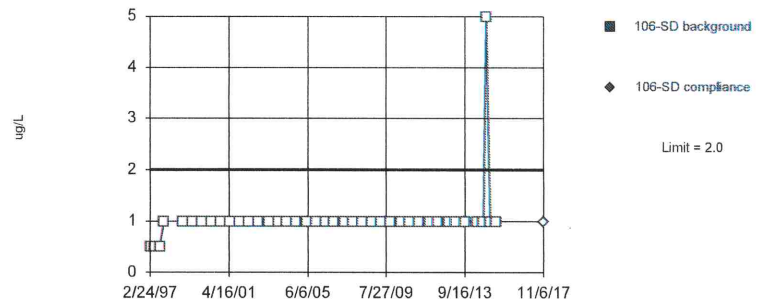
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:56 AM

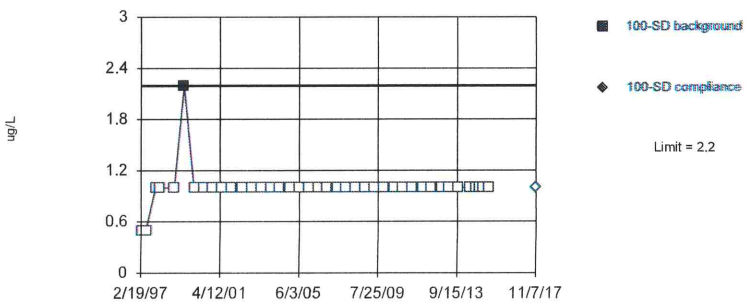
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

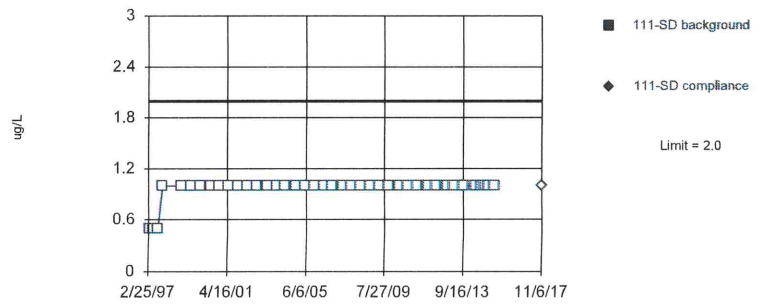
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:56 AM

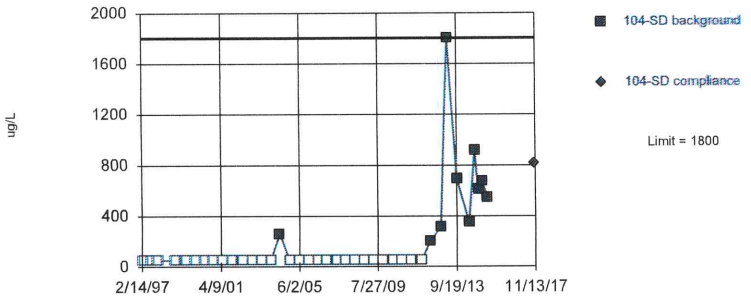
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

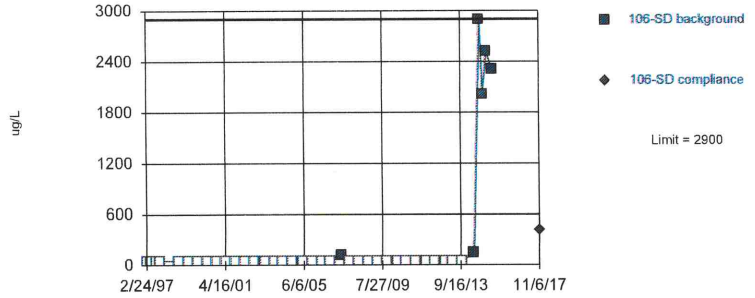
Constituent: Boron Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

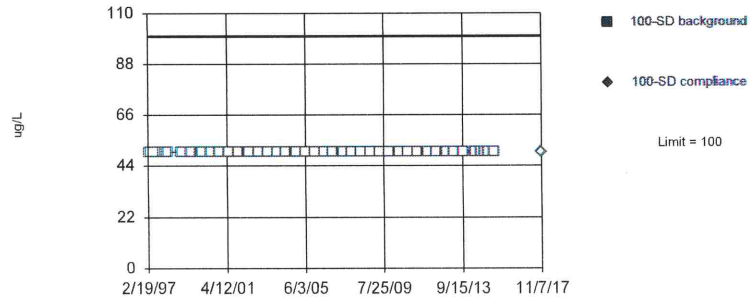
Constituent: Boron Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

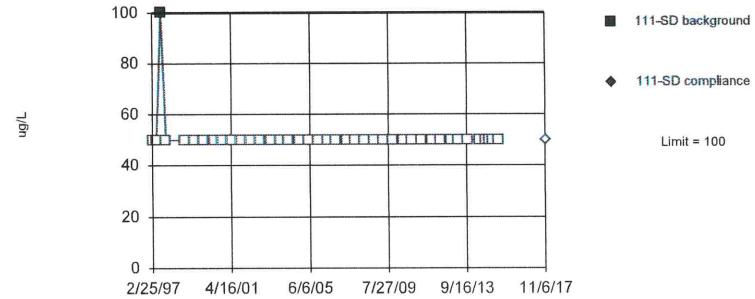
Constituent: Boron Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

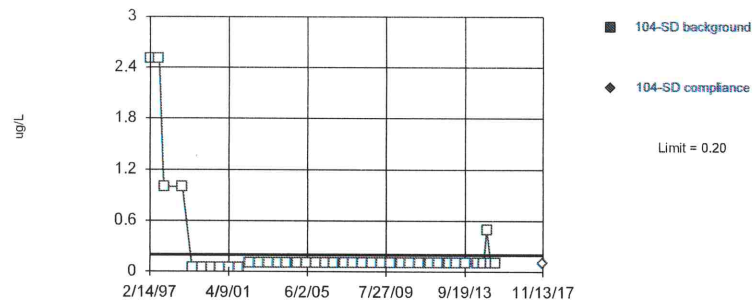
Constituent: Boron Total Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:56 AM

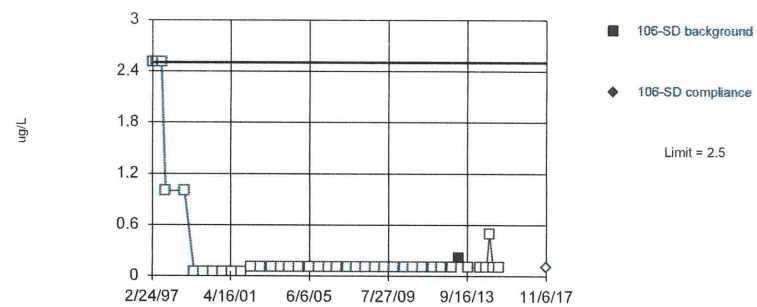
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

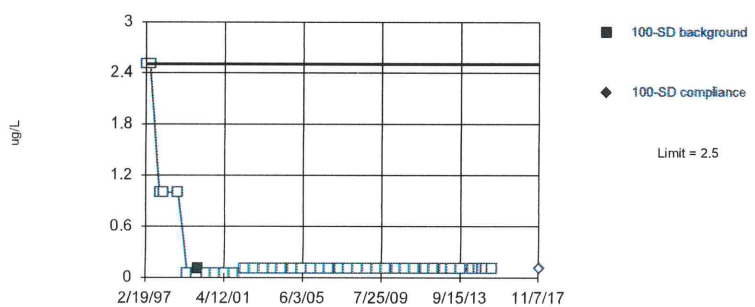
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

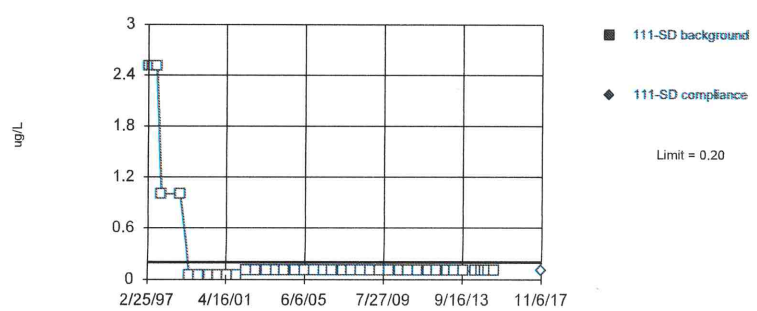
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:56 AM

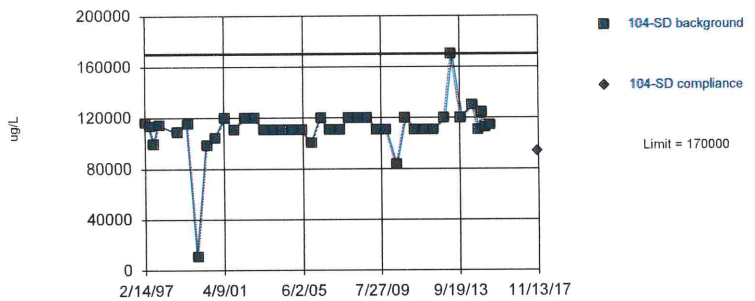
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

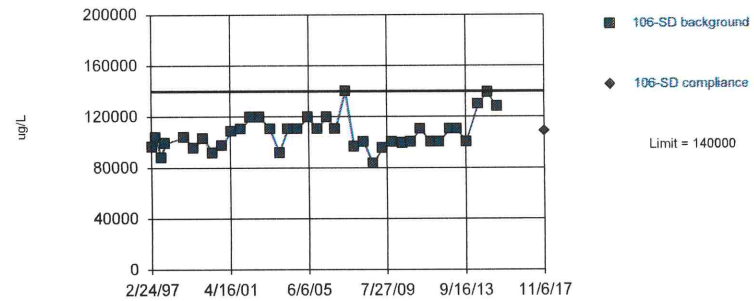
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

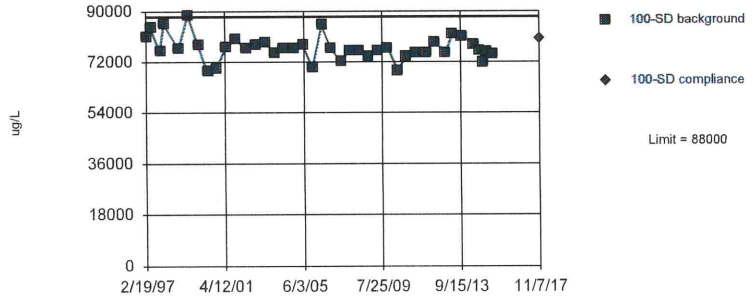
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

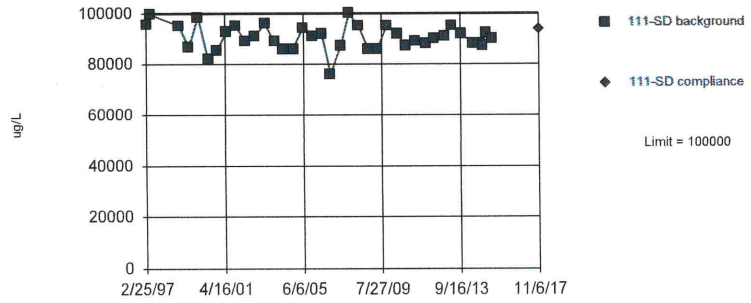
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

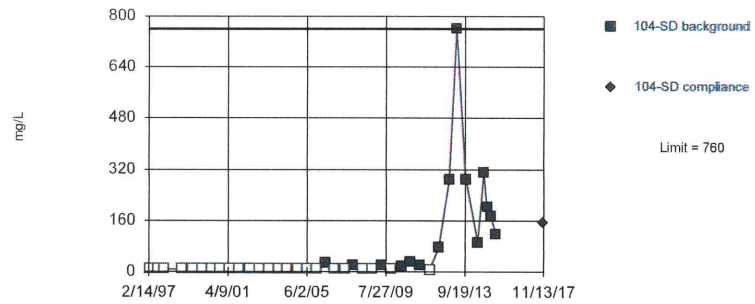
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

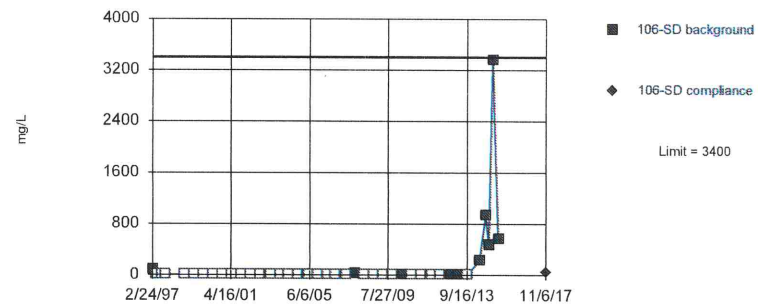
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

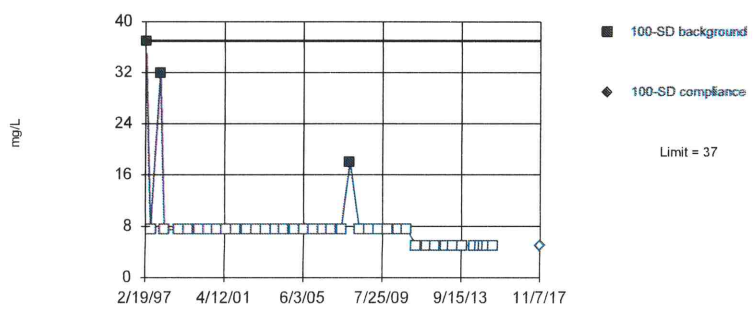
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

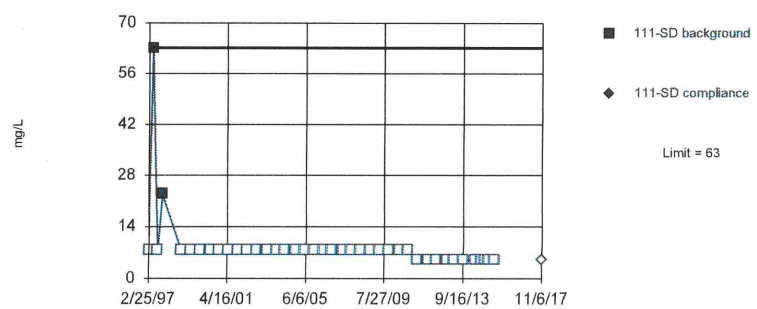
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

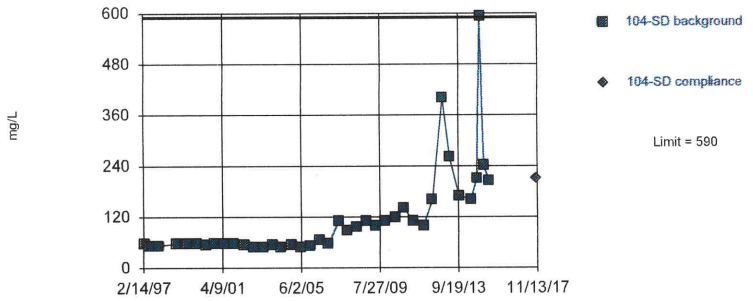
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 11:56 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

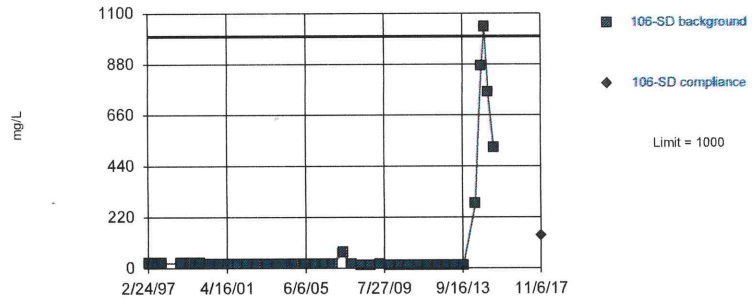
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

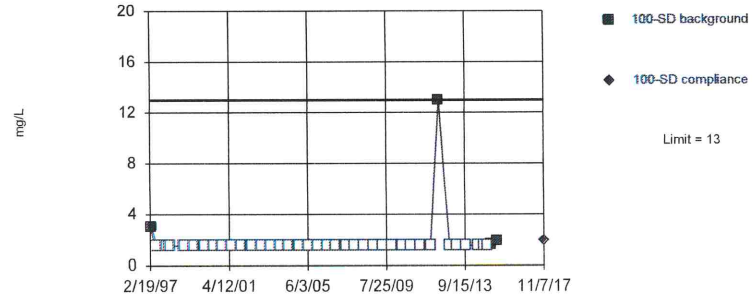
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:56 AM

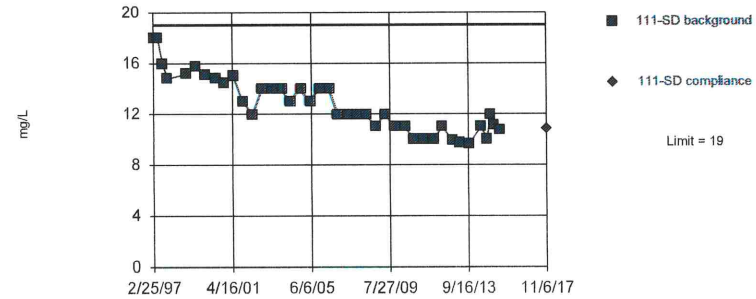
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

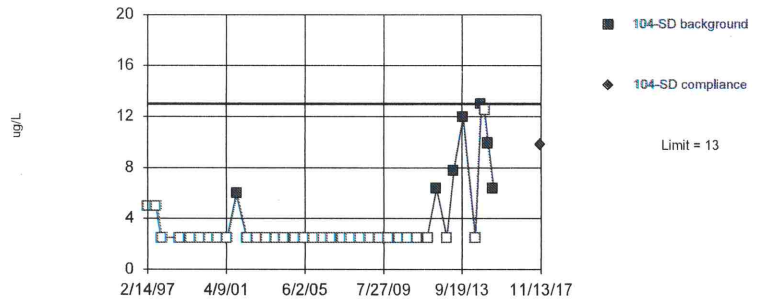
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

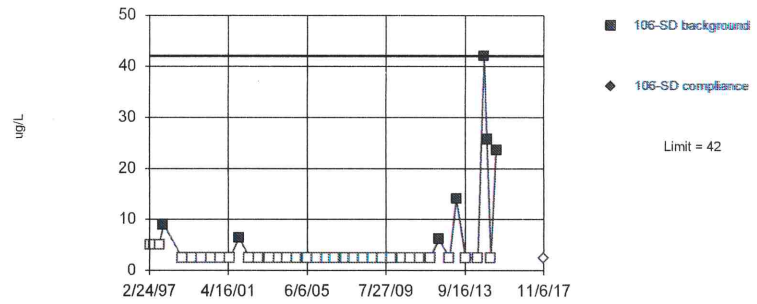
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

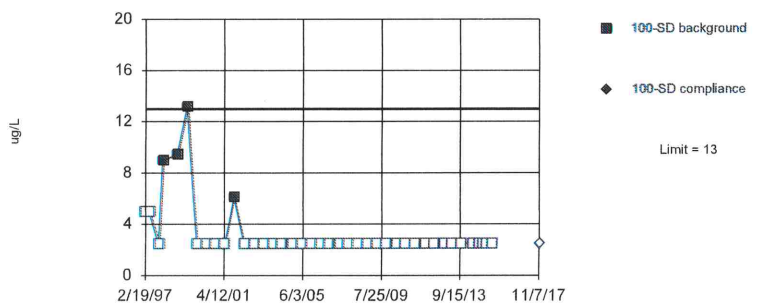
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

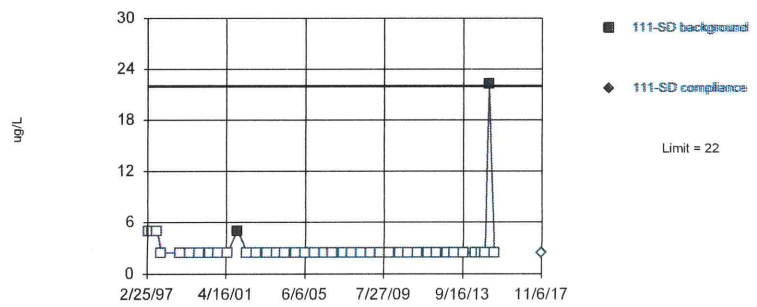
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:56 AM

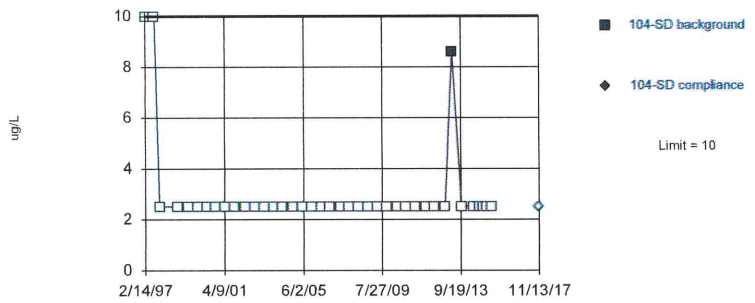
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

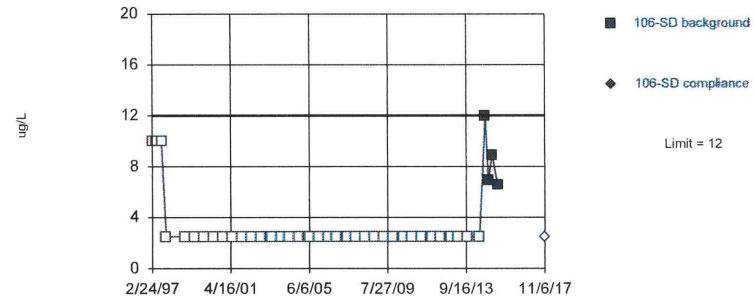
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

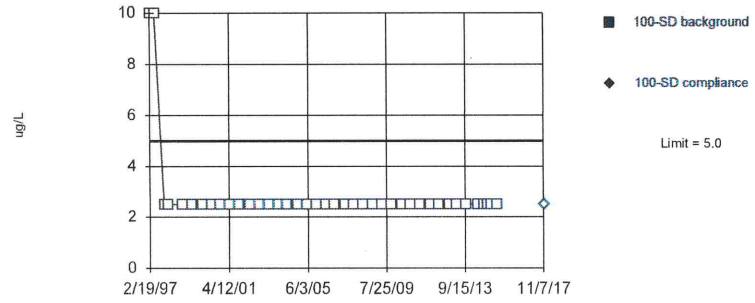
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

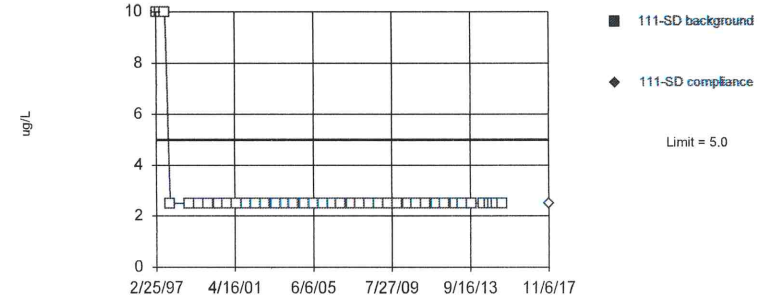
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

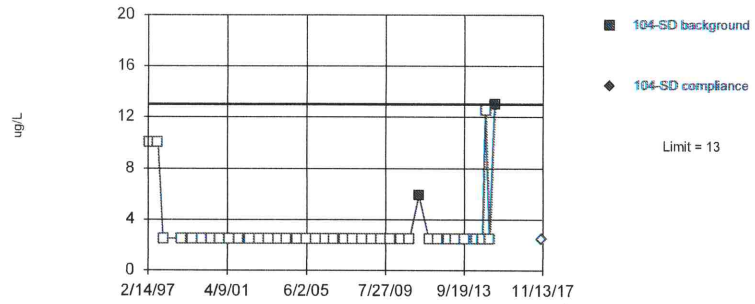
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

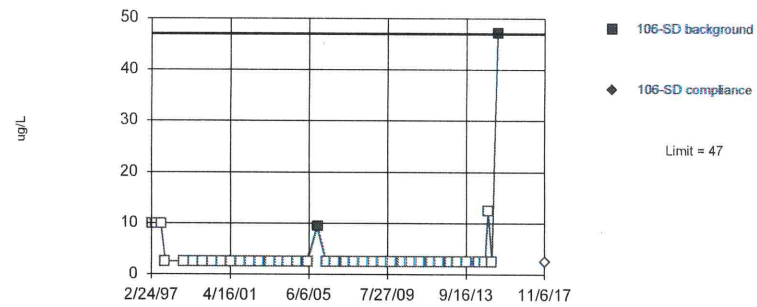
Constituent: Copper Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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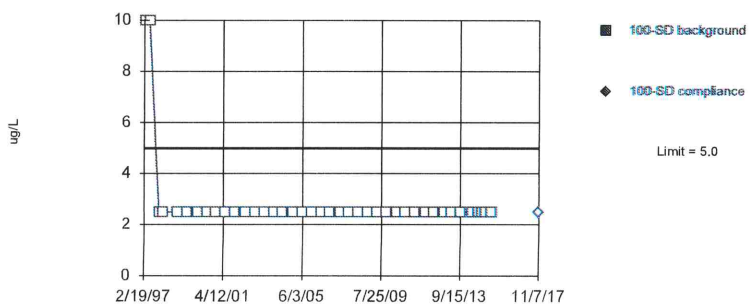
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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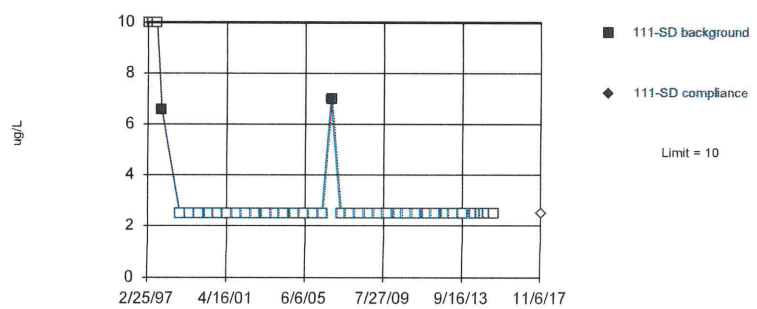
Hollow symbols indicate censored values.

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. 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 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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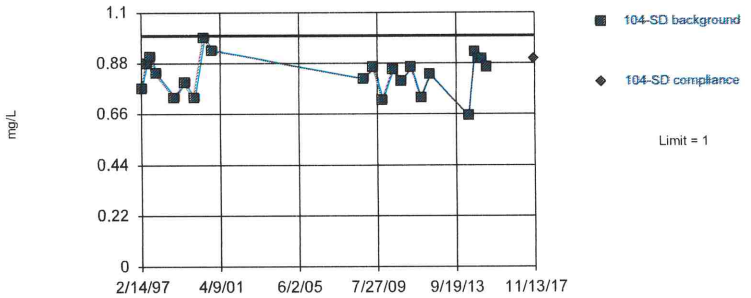
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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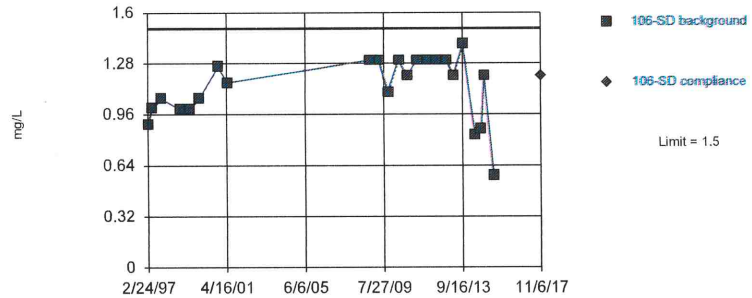
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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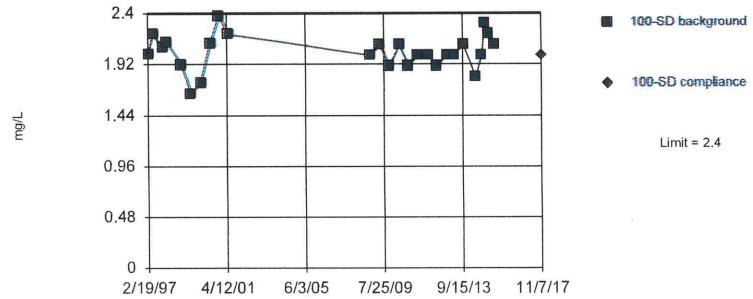
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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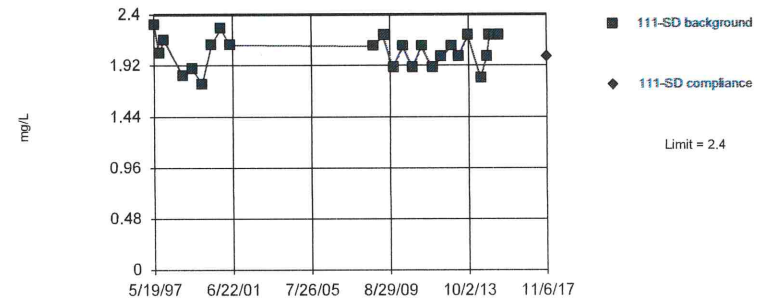
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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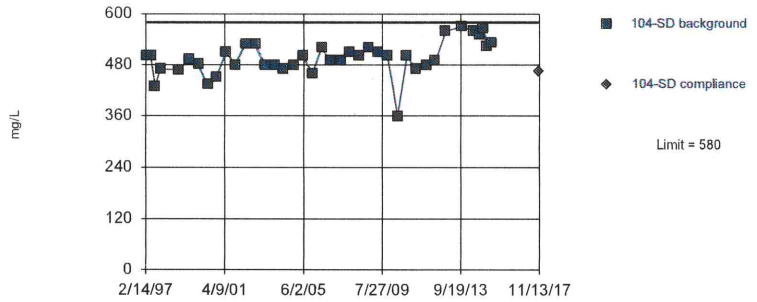
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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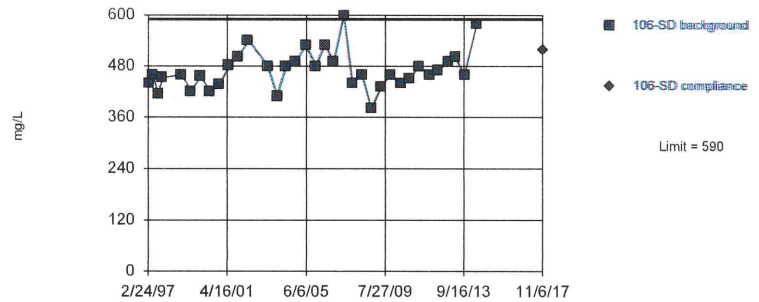
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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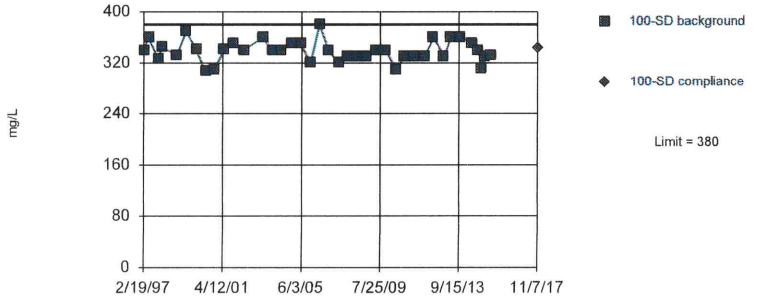
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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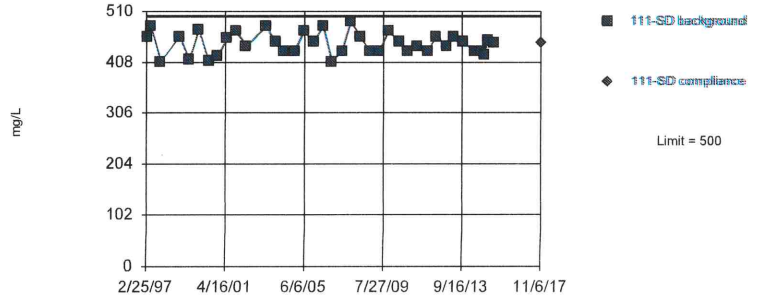
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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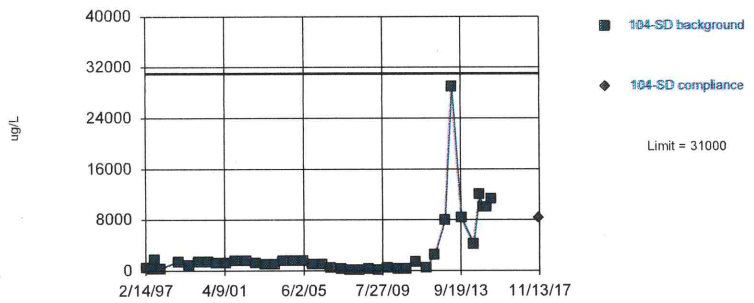
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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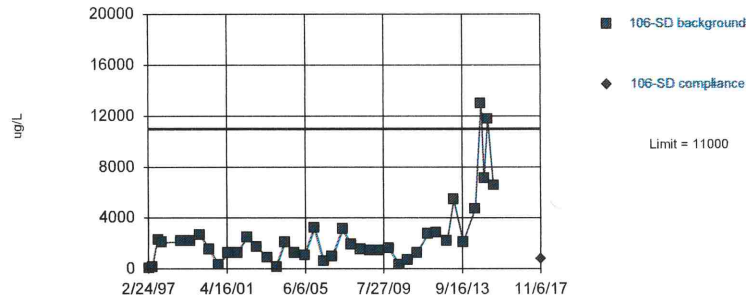
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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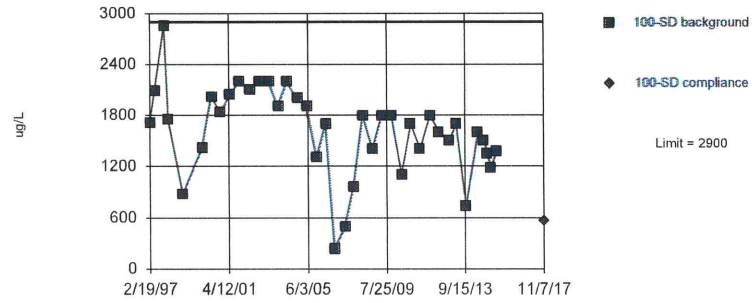
Within Limit

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).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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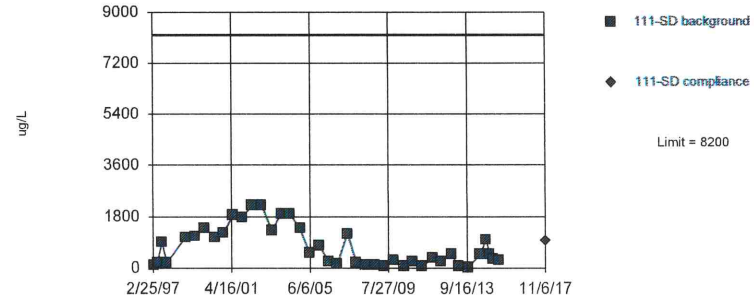
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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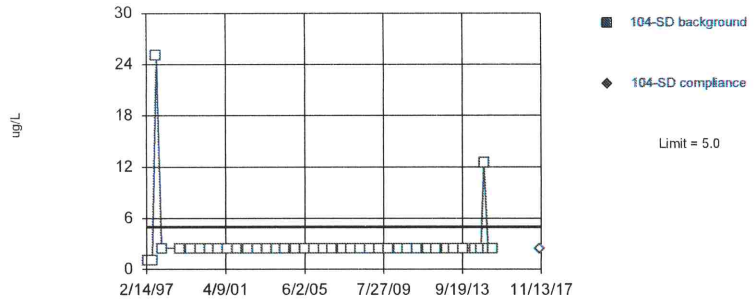
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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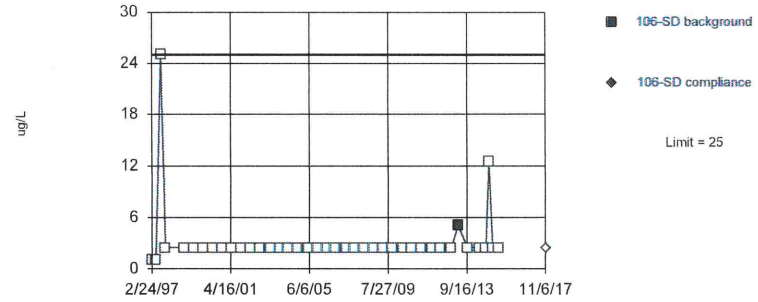
Hollow symbols indicate censored values.

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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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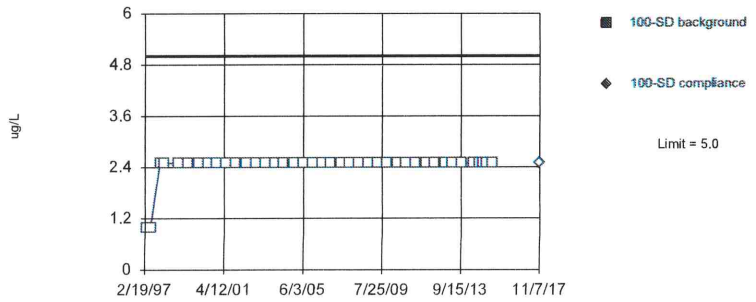
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

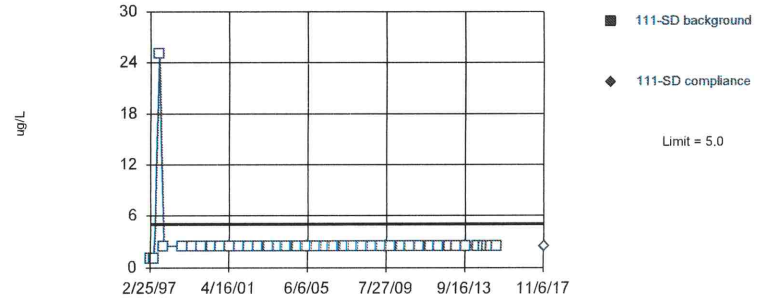
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 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=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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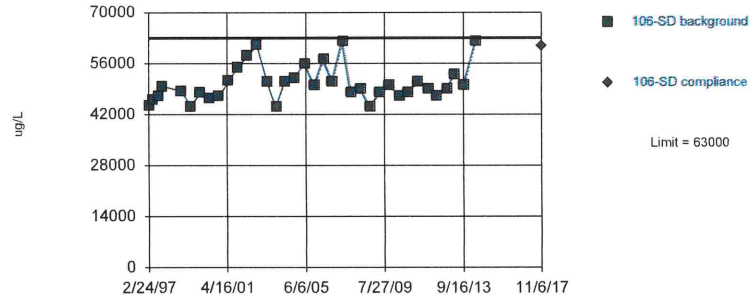
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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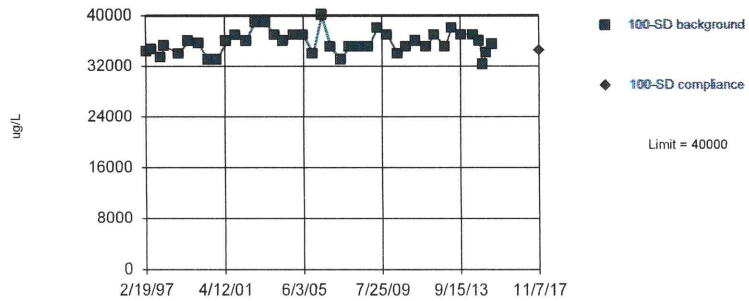
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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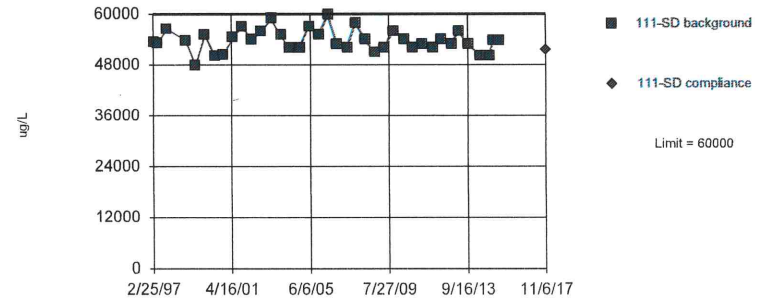
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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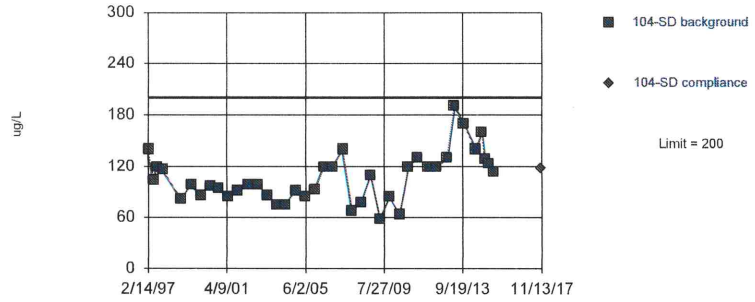
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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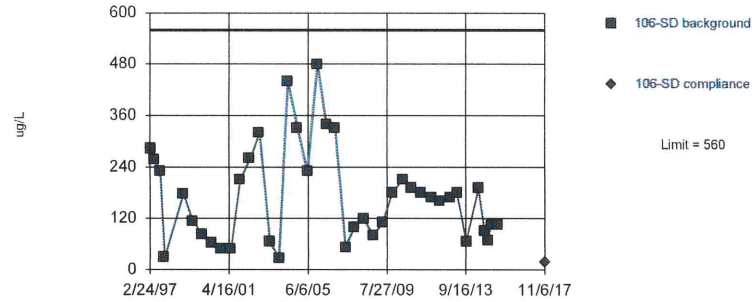
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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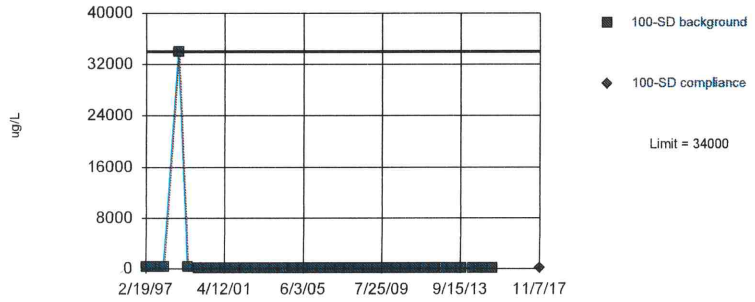
Within Limit

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: Manganese Total Analysis Run 12/30/2017 11:57 AM

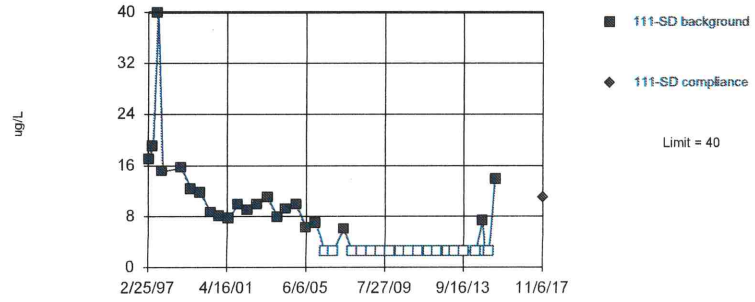
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Manganese Total Analysis Run 12/30/2017 11:57 AM

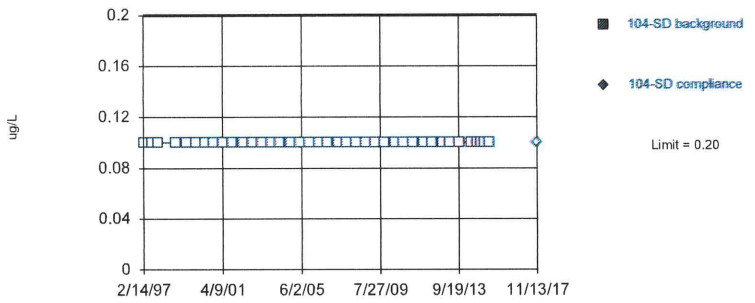
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

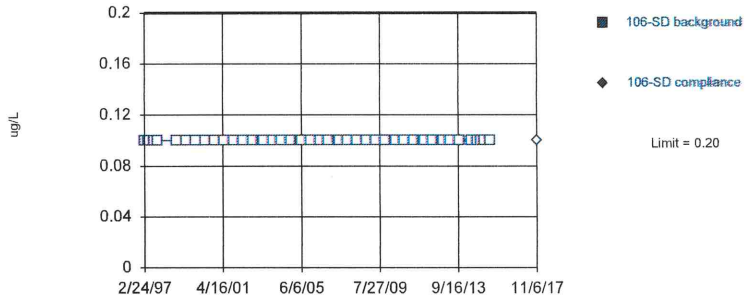
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

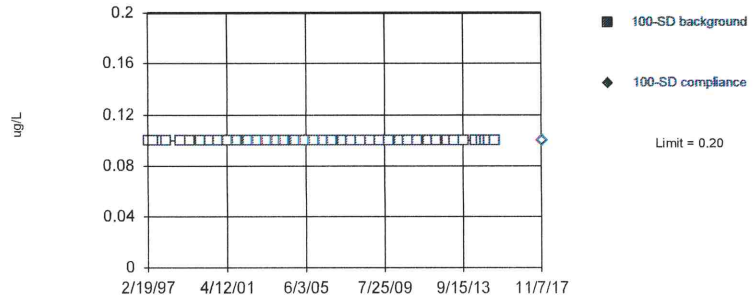
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

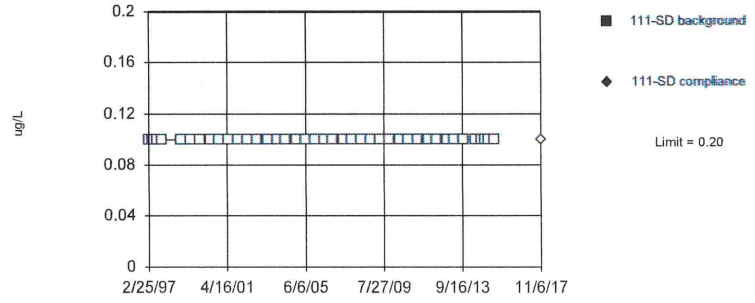
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

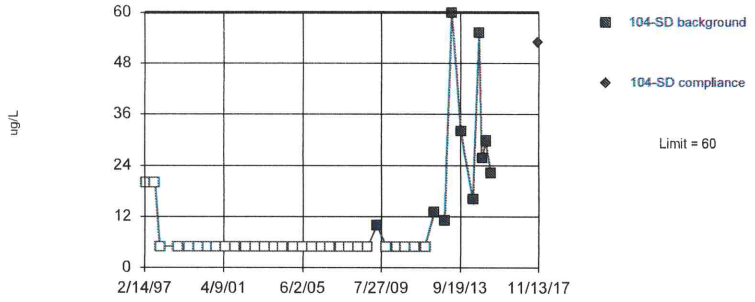
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Nickel Total Analysis Run 12/30/2017 11:57 AM

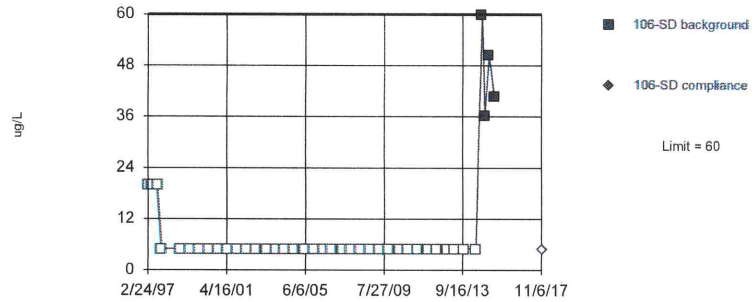
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

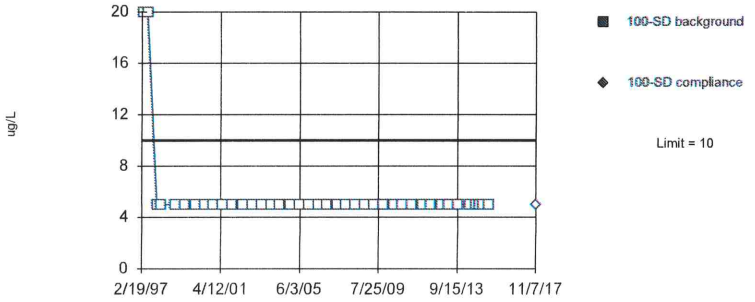
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

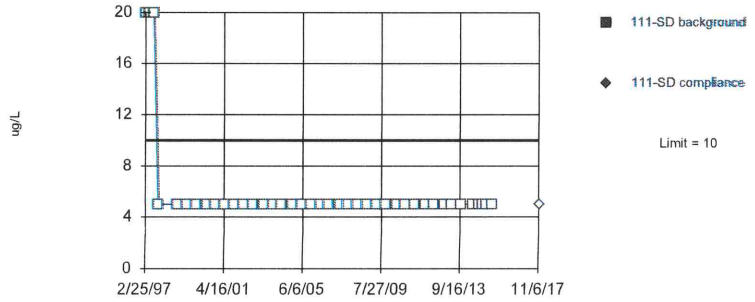
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

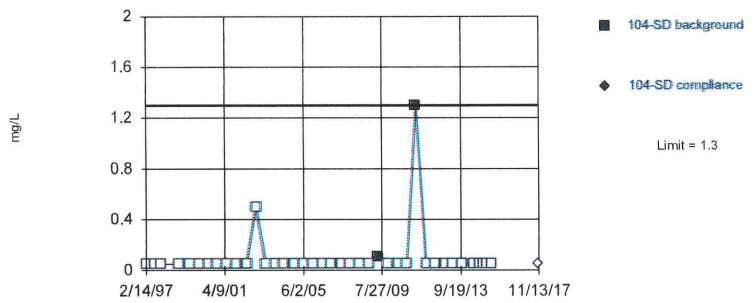
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

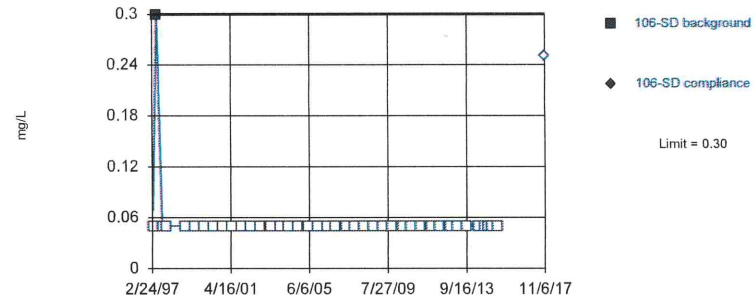
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

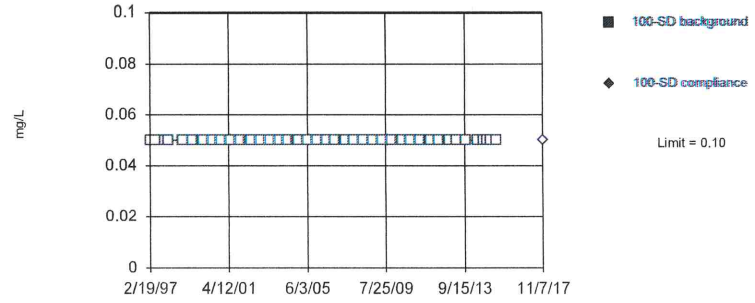
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

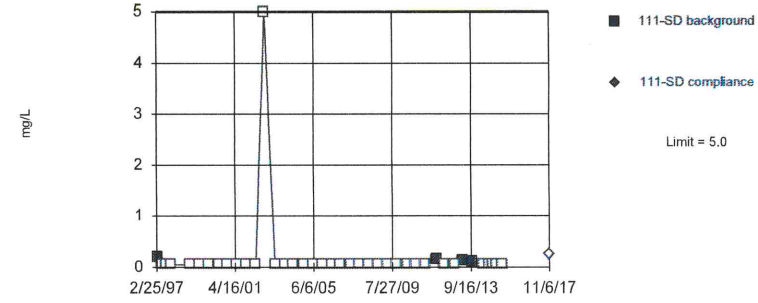
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

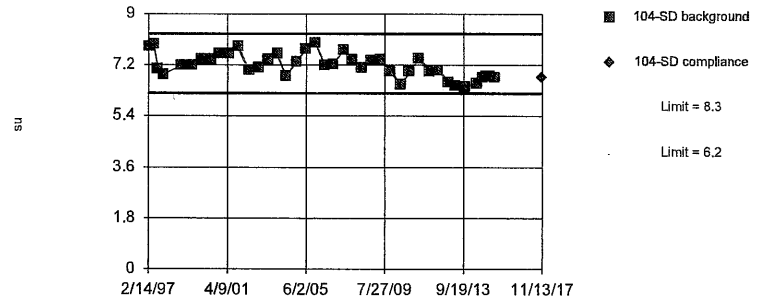
Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

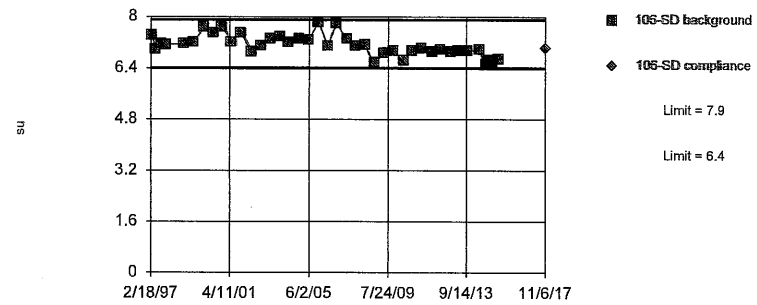
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:57 AM

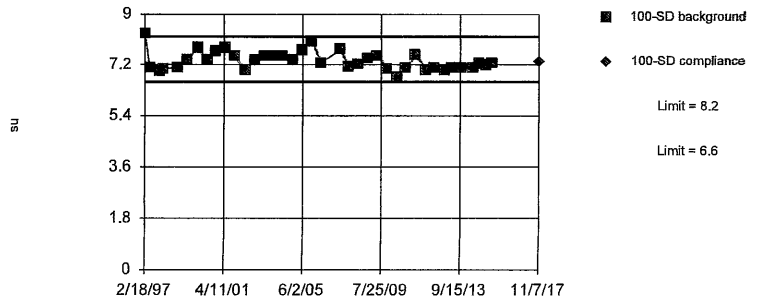
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:57 AM

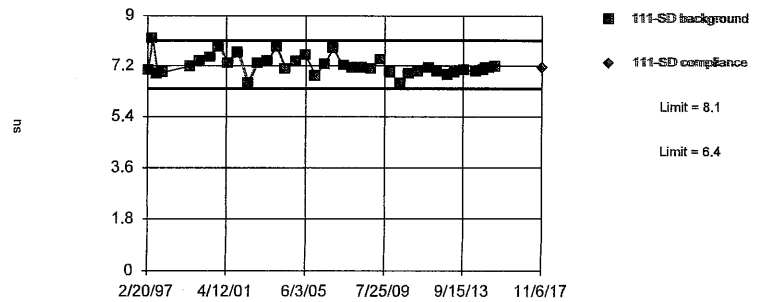
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:57 AM

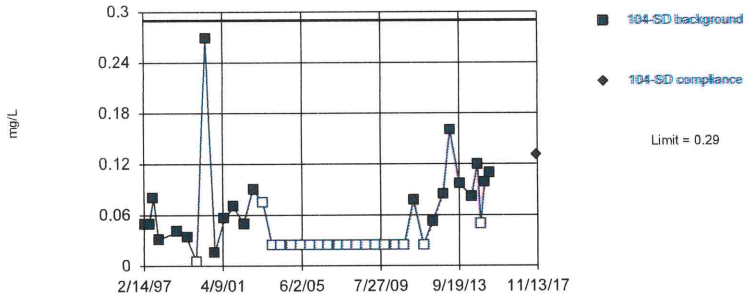
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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) (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.

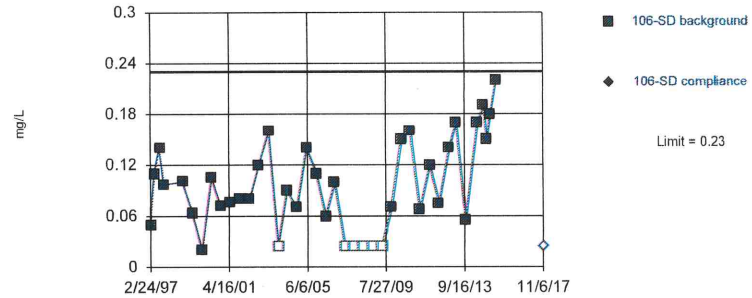
Constituent: Phosphorus Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

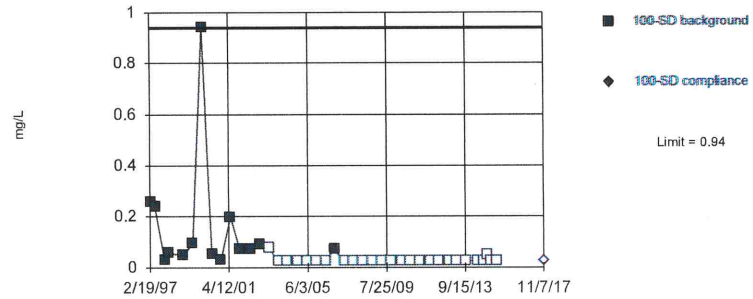
Constituent: Phosphorus Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

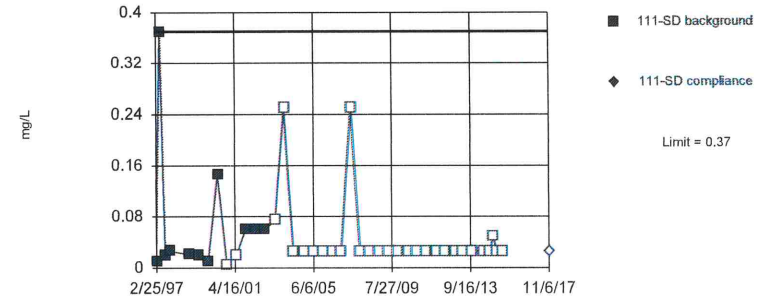
Constituent: Phosphorus Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

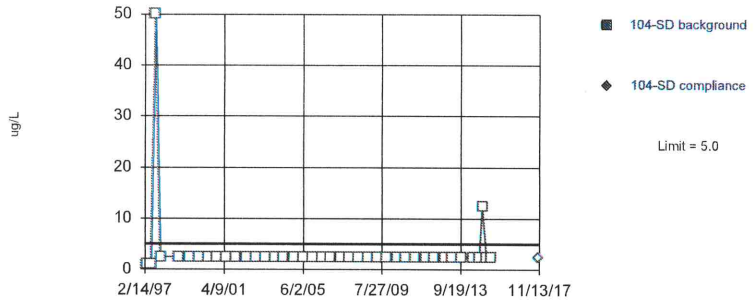
Constituent: Phosphorus Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

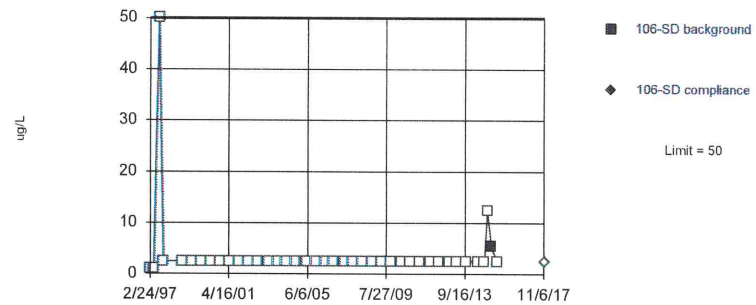
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

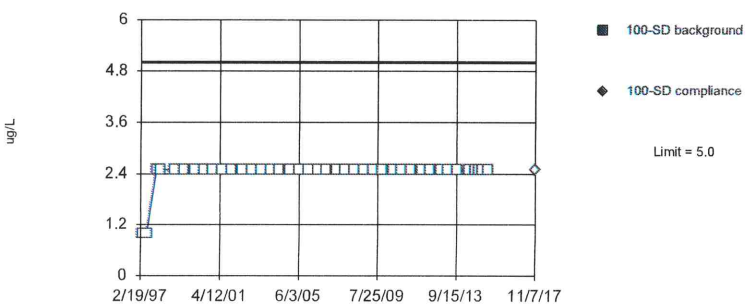
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

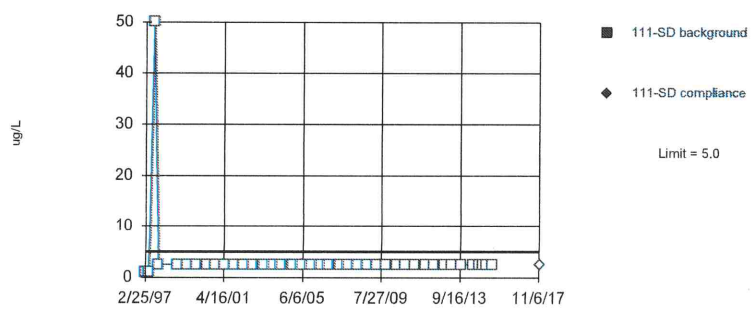
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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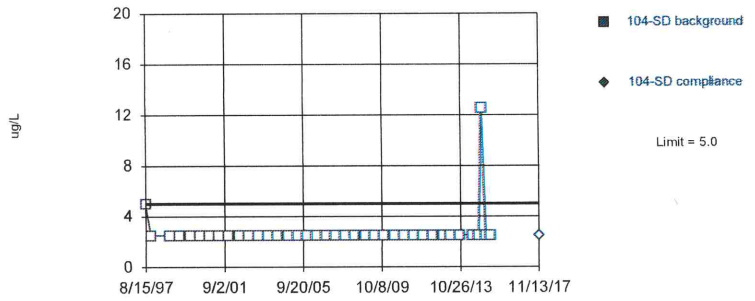
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 38) were censored; limit is most recent reporting limit. 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.

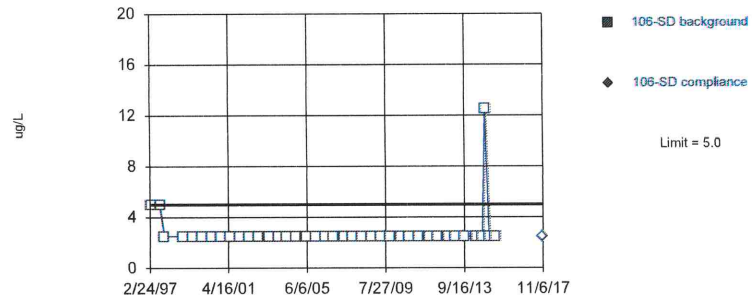
Constituent: Silver Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 39) were censored; limit is most recent reporting limit. 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.

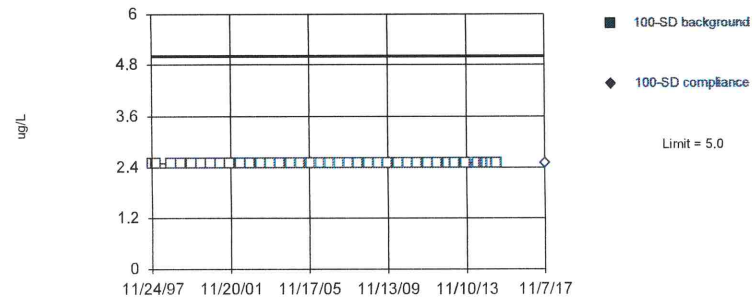
Constituent: Silver Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 38) were censored; limit is most recent reporting limit. 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.

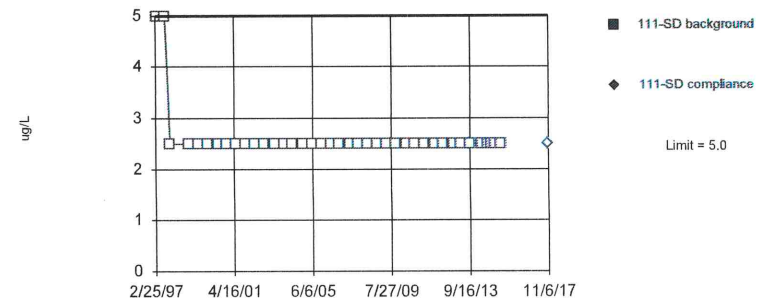
Constituent: Silver Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 39) were censored; limit is most recent reporting limit. 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.

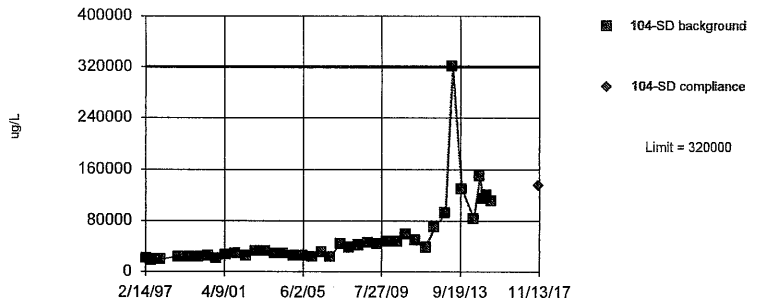
Constituent: Silver Total Analysis Run 12/30/2017 11:57 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

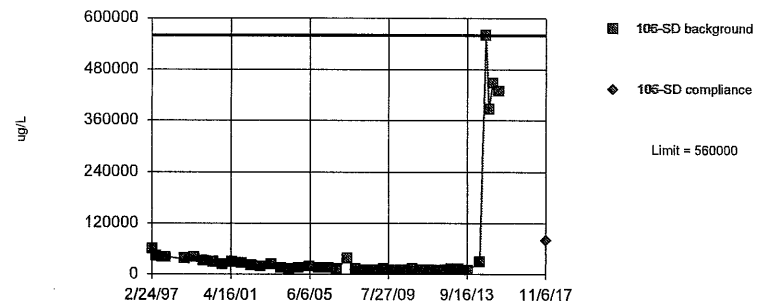
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

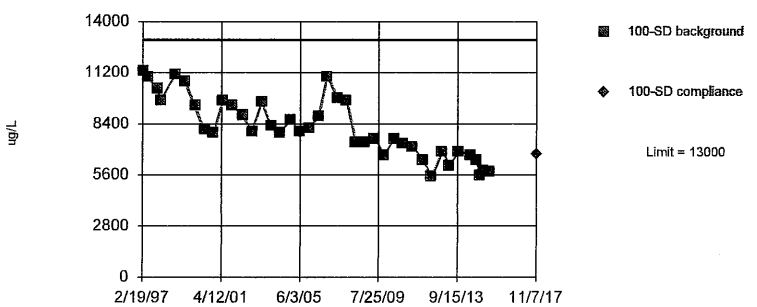
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

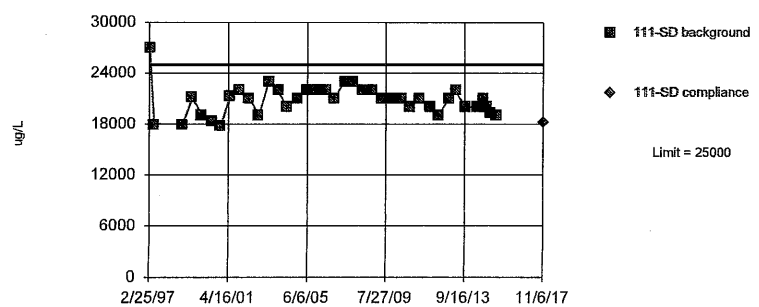
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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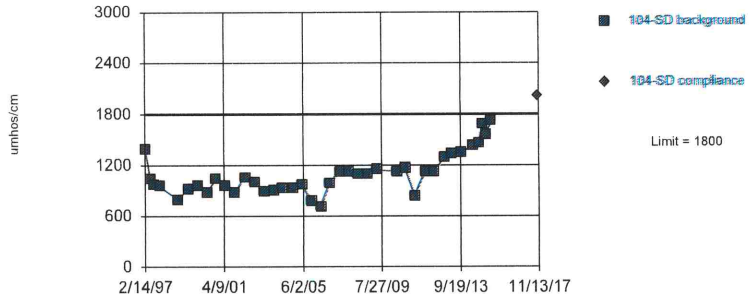
Exceeds Limit

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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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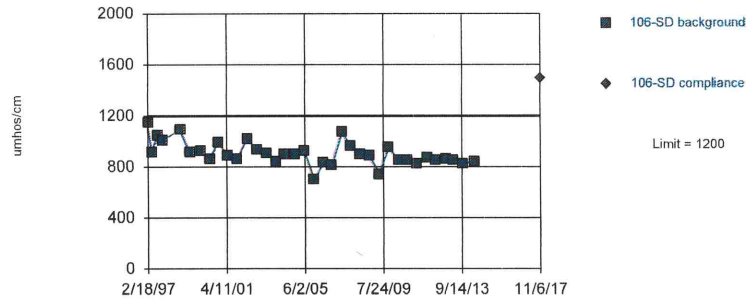
Exceeds Limit

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 12/30/2017 11:57 AM

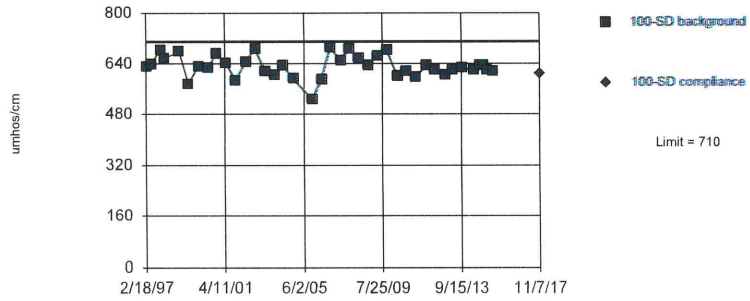
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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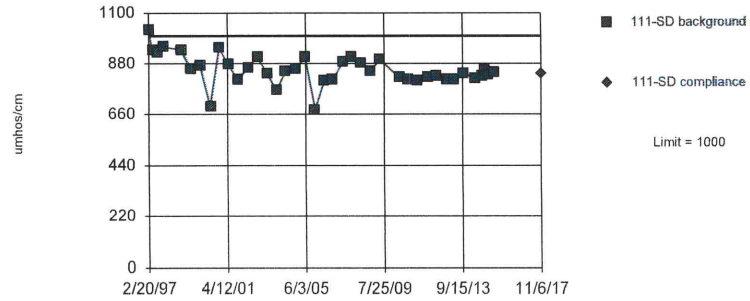
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square 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 12/30/2017 11:57 AM

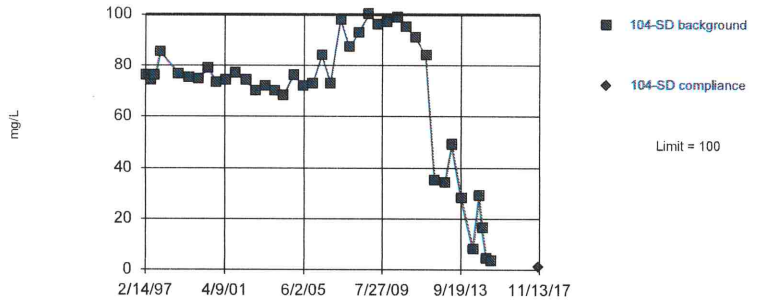
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Sulfate Analysis Run 12/30/2017 11:57 AM

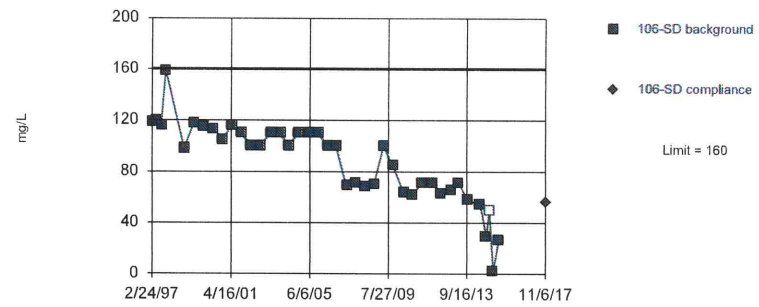
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:57 AM

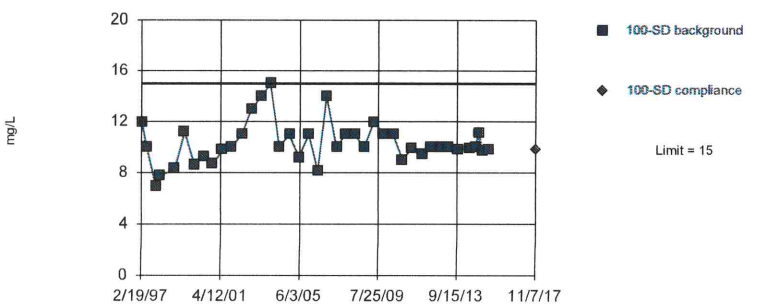
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 11:58 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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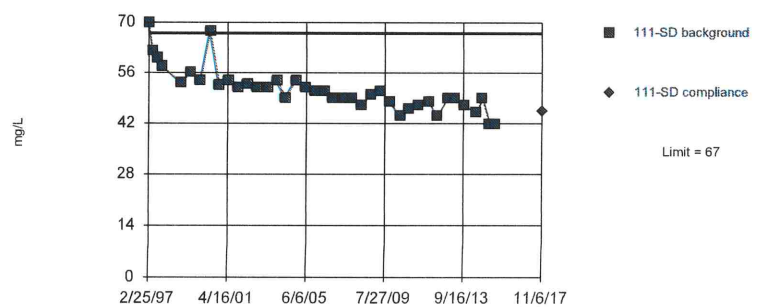
Within Limit

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 12/30/2017 11:58 AM

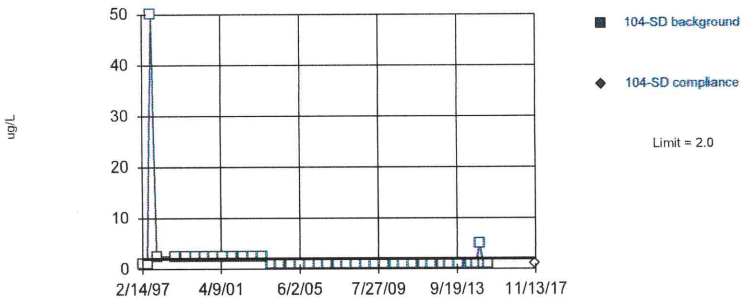
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

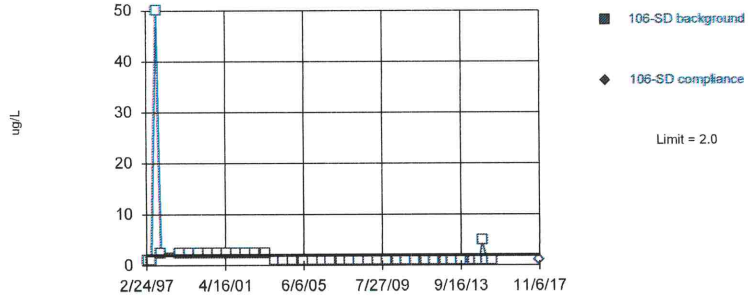
Constituent: Thallium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

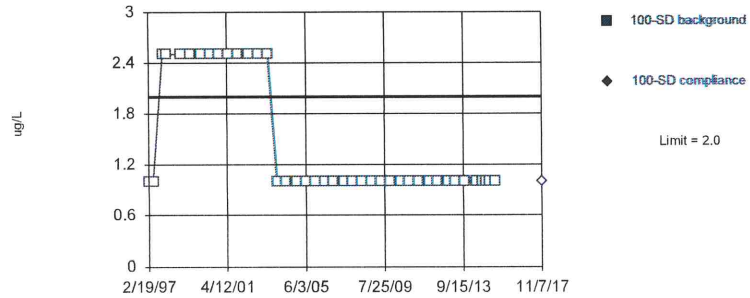
Constituent: Thallium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

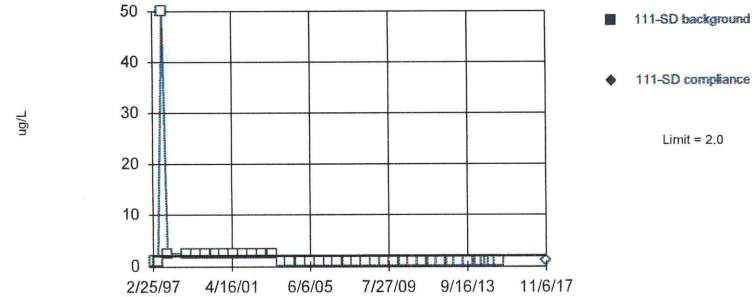
Constituent: Thallium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

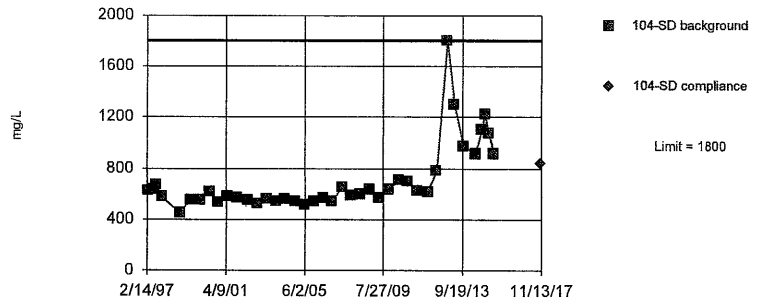
Constituent: Thallium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:58 AM

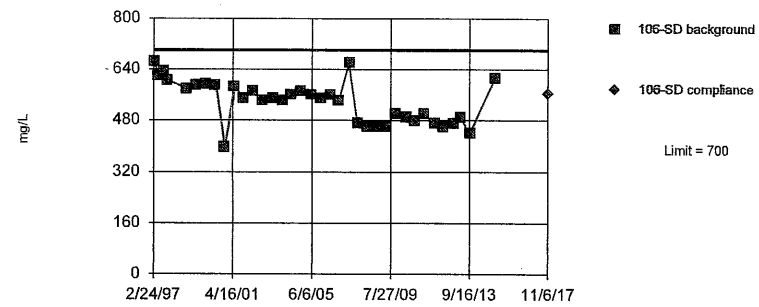
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within 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 12/30/2017 11:58 AM

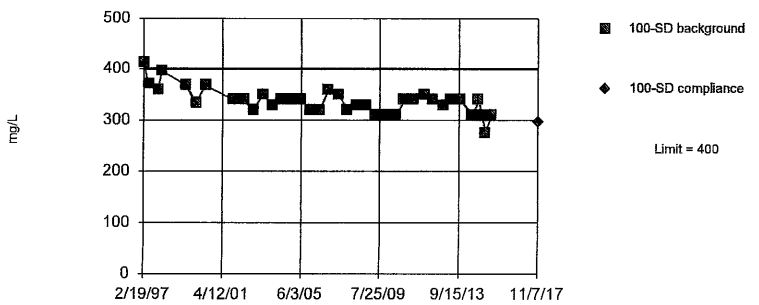
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:58 AM

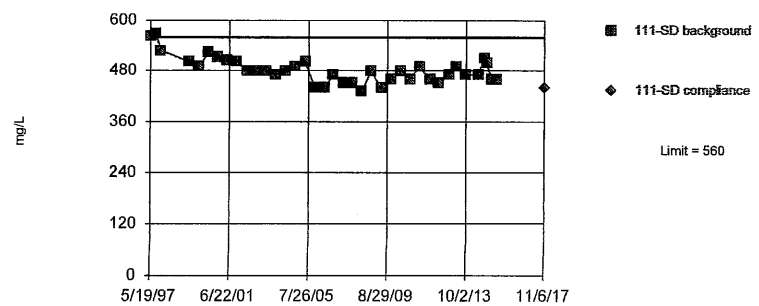
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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 12/30/2017 11:58 AM

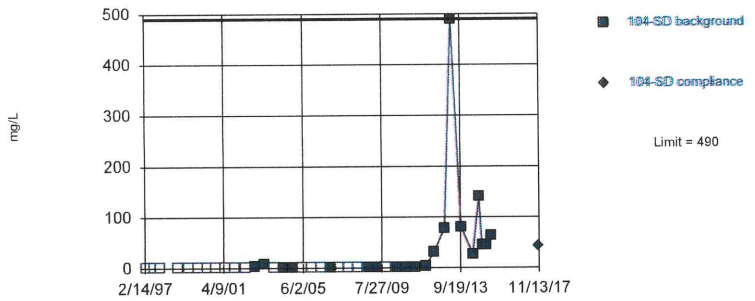
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

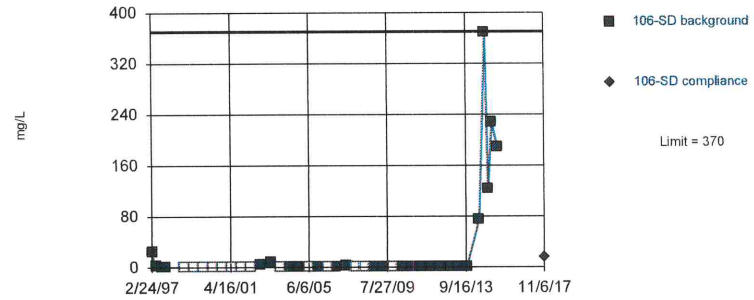
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

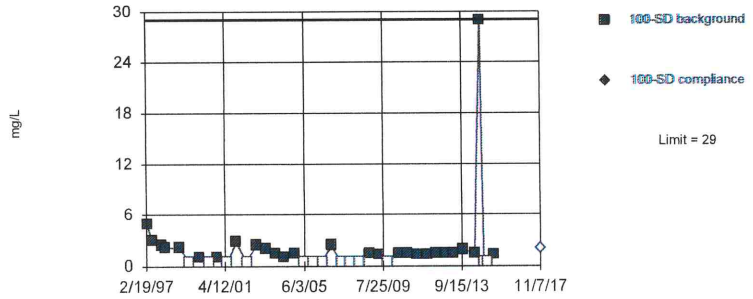
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

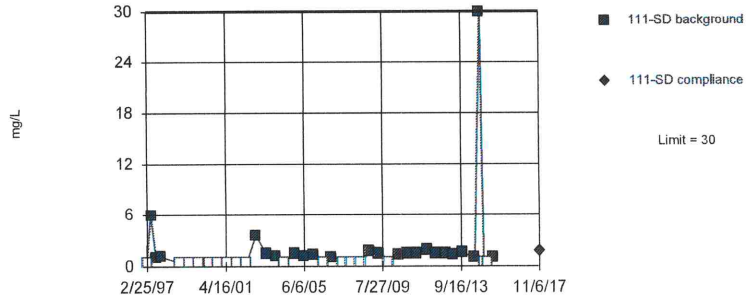
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

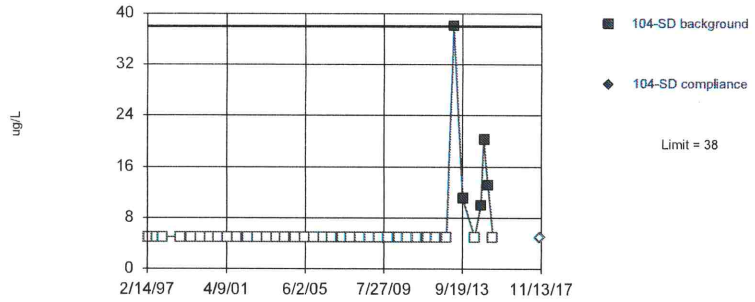
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

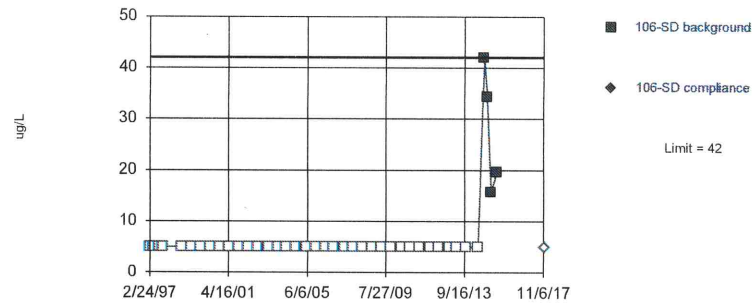
Constituent: Vanadium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

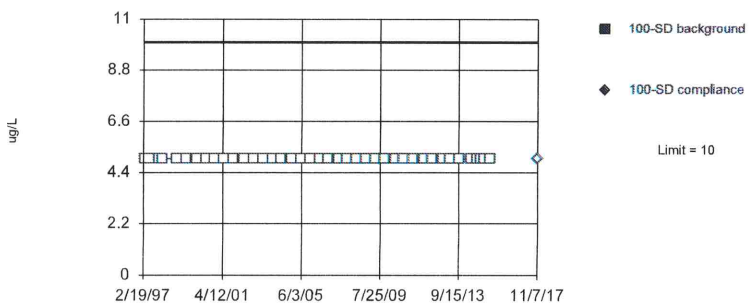
Constituent: Vanadium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

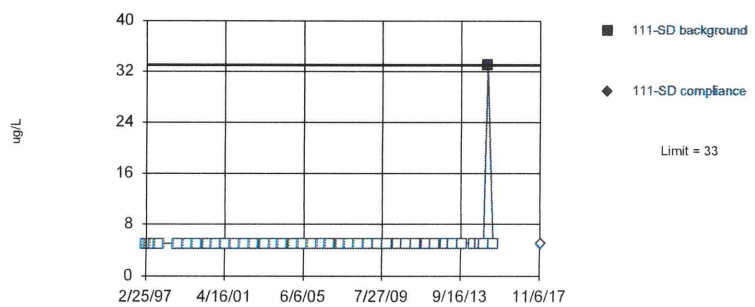
Constituent: Vanadium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

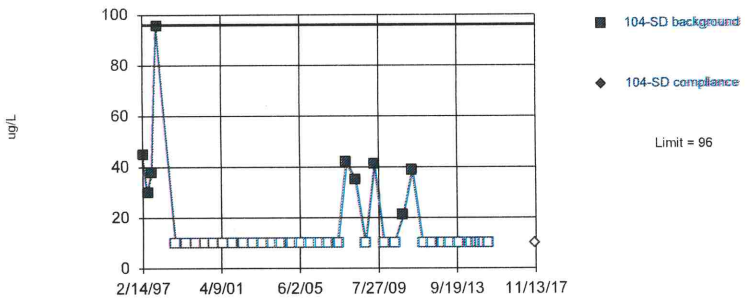
Constituent: Vanadium Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

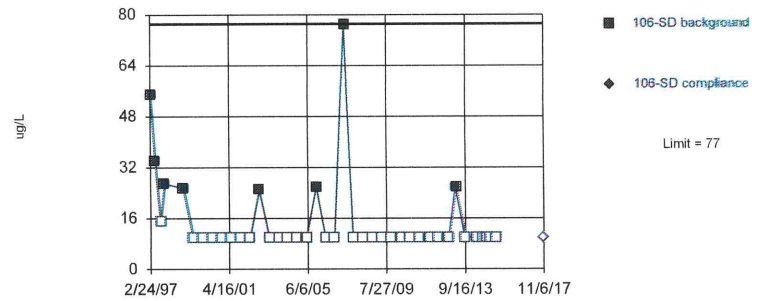
Constituent: Zinc Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

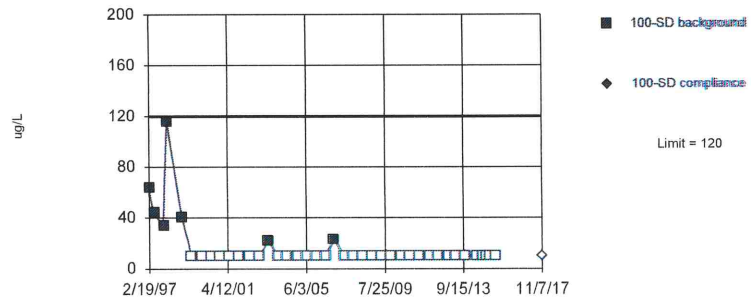
Constituent: Zinc Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.

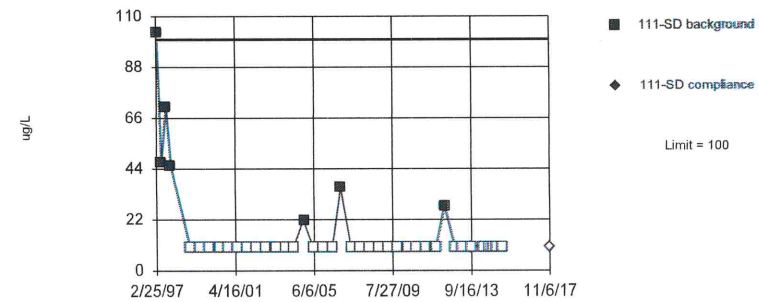
Constituent: Zinc Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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: Zinc Total Analysis Run 12/30/2017 11:58 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 12/30/2017, 12:52 PM

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)	**106-SD**	**1.4**	**n/a**	**11/6/2017**	**22.2**	**Yes**	**29**	**n/a**	**n/a**	**55.17**	**n/a**	**n/a**	**0.002152**	**NP Intra (NDs) 1 of 2**
Barium Total (ug/L)	**104-SD**	**230**	**n/a**	**11/13/2017**	**563**	**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**	**11/6/2017**	**288**	**Yes**	**11**	**465937**	**199834**	**0**	**None**	**x^3**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	111-SD	130	n/a	11/6/2017	107	No	12	4.538	0.1113	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	106-SD	140000	n/a	11/6/2017	108000	No	37	11.57	0.1154	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SD	760	n/a	11/13/2017	155	No	36	n/a	n/a	69.44	n/a	n/a	0.00142	NP Intra (NDs) 1 of 2
Chloride (mg/L)	**104-SD**	**110**	**n/a**	**11/13/2017**	**211**	**Yes**	**26**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002637**	**NP Intra (normality) 1 of 2**
Hardness Total (mg/L)	104-SD	570	n/a	11/13/2017	466	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	11/6/2017	519	No	35	6.15	0.09469	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	106-SD	8600	n/a	11/6/2017	754	No	37	11.73	3.576	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Magnesium Total (ug/L)	104-SD	58000	n/a	11/13/2017	56800	No	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	11/6/2017	60600	No	36	10.82	0.09234	0	None	ln(x)	0.0001937	Param Intra 1 of 2
pH [Field] (su)	104-SD	8.2	6.2	11/13/2017	6.76	No	34	53	5.7	0	None	x^2	0.00009683	Param Intra 1 of 2
pH [Field] (su)	106-SD	8	6.5	11/6/2017	7	No	31	1.973	0.04295	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	**104-SD**	**34000**	**n/a**	**11/13/2017**	**134000**	**Yes**	**10**	**10**	**0.1276**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	**104-SD**	**1500**	**n/a**	**11/13/2017**	**2010**	**Yes**	**33**	**6.911**	**0.1526**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**104-SD**	**780**	**n/a**	**11/13/2017**	**846**	**Yes**	**32**	**6.38**	**0.11**	**0**	**None**	**ln(x)**	**0.0001937**	**Param Intra 1 of 2**
Total Organic Carbon [TOC] (mg/L)	**104-SD**	**32**	**n/a**	**11/13/2017**	**42.9**	**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	11/6/2017	15.1	No	37	n/a	n/a	37.84	n/a	n/a	0.001353	NP Intra (normality) 1 of 2

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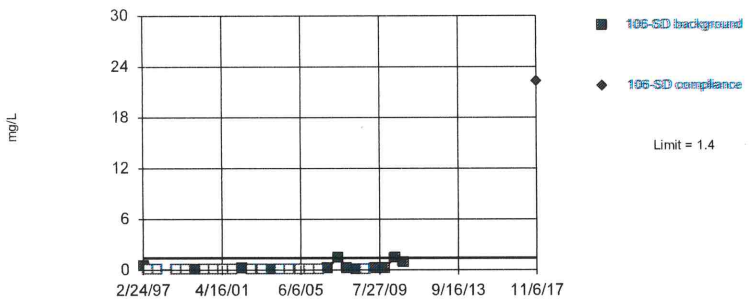
Hollow symbols indicate censored values.

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 12/30/2017 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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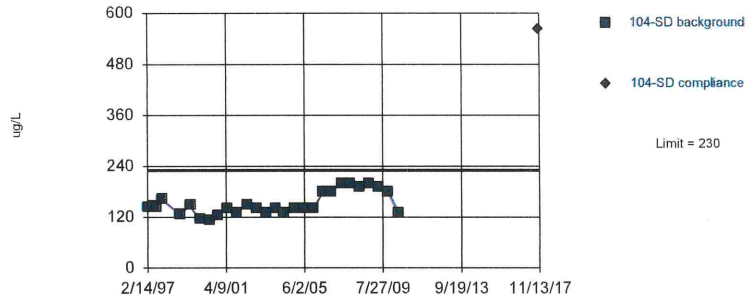
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.011, 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.

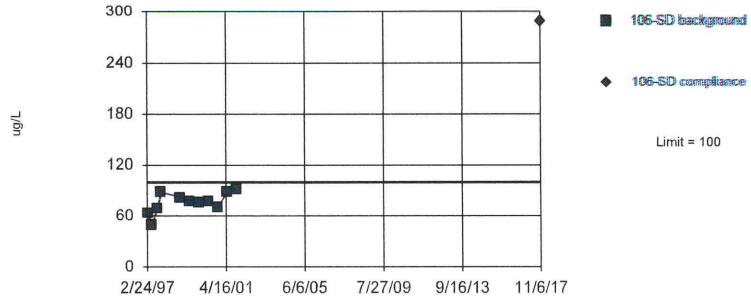
Constituent: Barium Total Analysis Run 12/30/2017 12:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 12:45 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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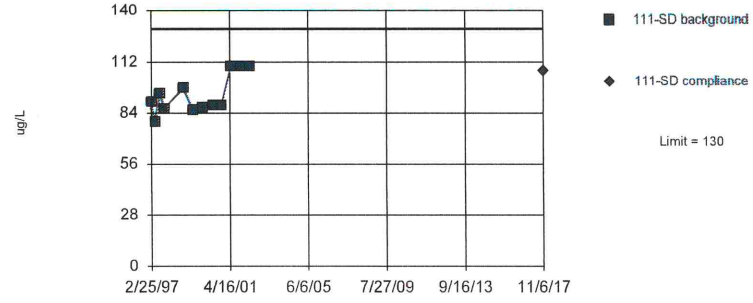
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.538, 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 12/30/2017 12:45 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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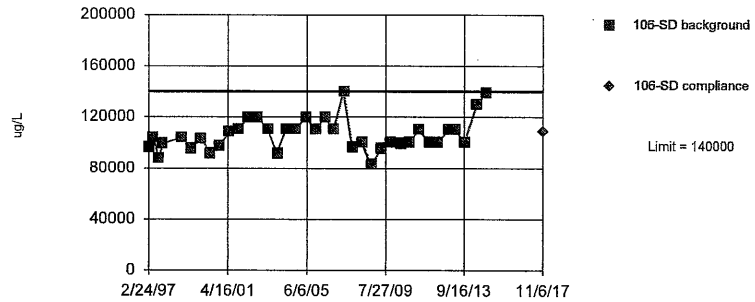
Within Limit

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 12/30/2017 12:45 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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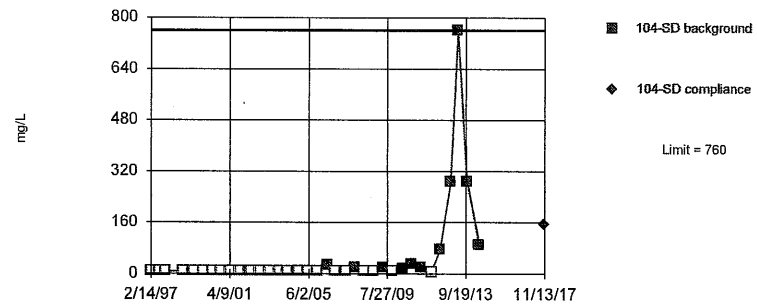
Hollow symbols indicate censored values.

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 36 background values. 69.44% 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: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 12:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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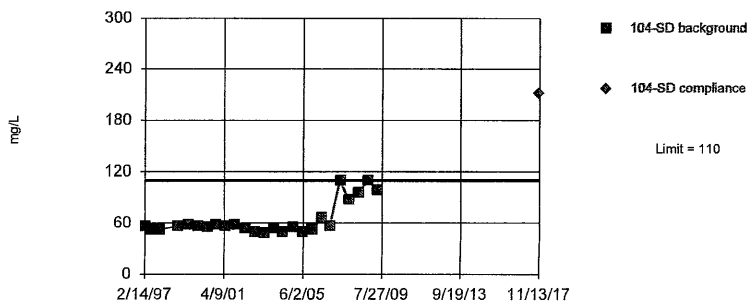
Exceeds Limit

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 12/30/2017 12:46 PM

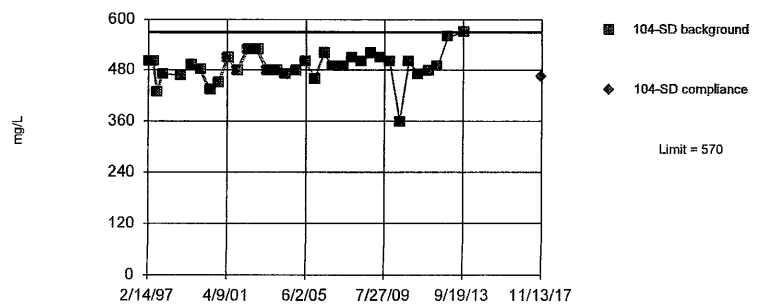
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 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.=2.6e7, 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 12/30/2017 12:47 PM

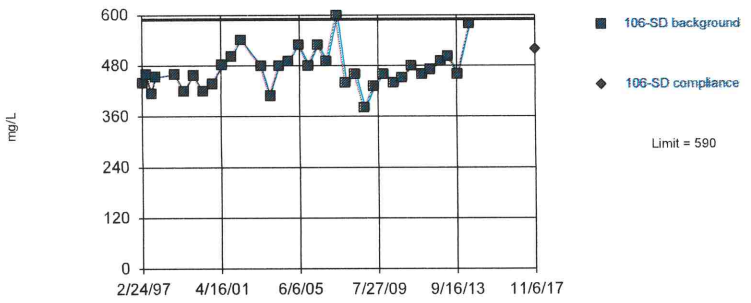
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 12:47 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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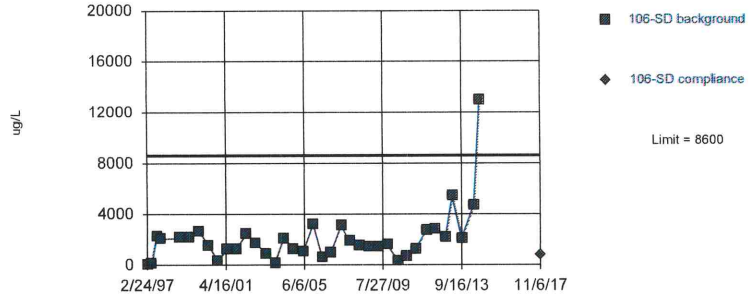
Within Limit

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 12/30/2017 12:47 PM

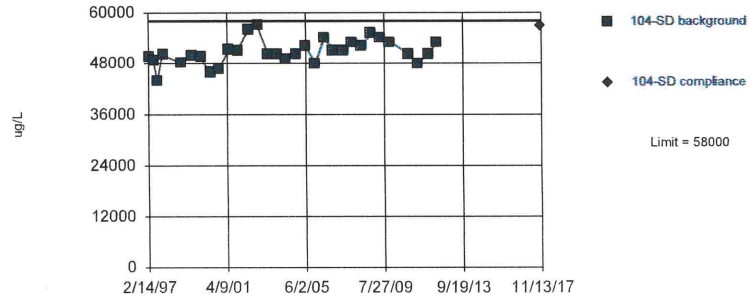
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within 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 12/30/2017 12:48 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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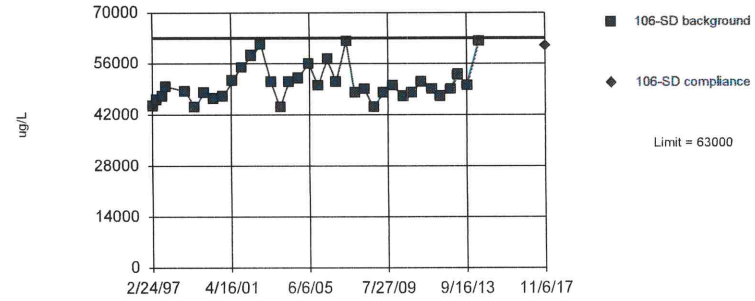
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, 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 12/30/2017 12:48 PM

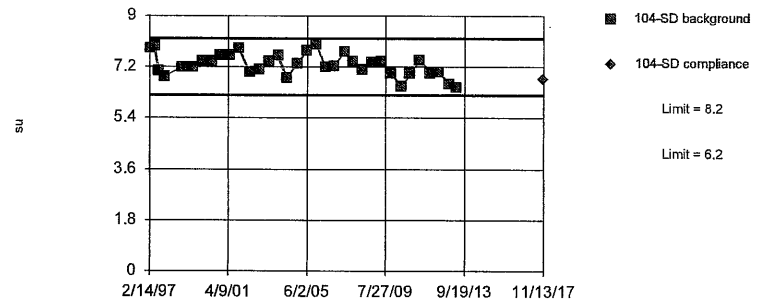
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 12:48 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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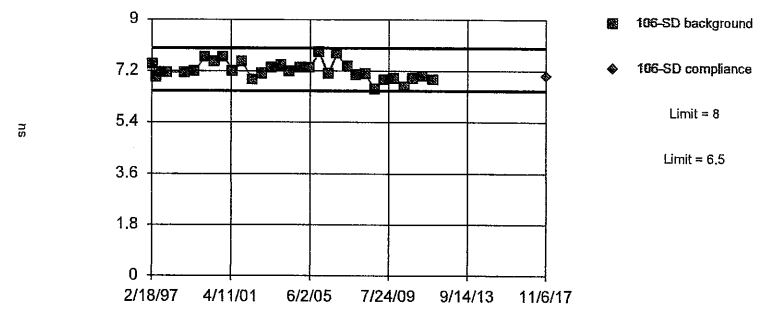
Within Limits

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 12/30/2017 12:49 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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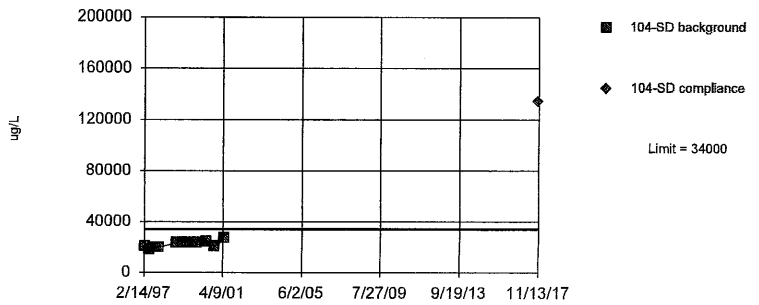
Exceeds Limit

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 12/30/2017 12:49 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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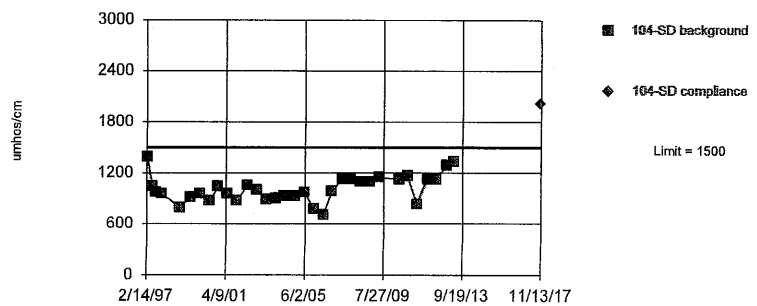
Exceeds Limit

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 12/30/2017 12:49 PM

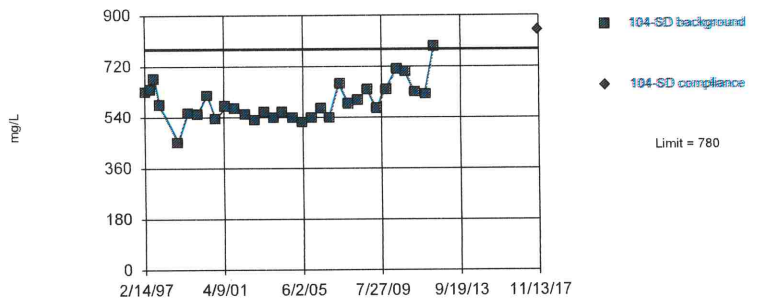
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

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 12/30/2017 12:50 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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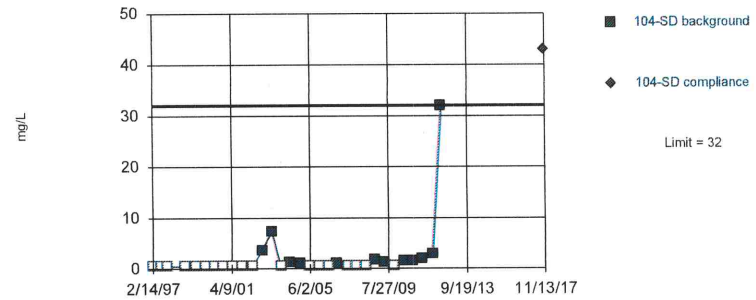
Hollow symbols indicate censored values.

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 12/30/2017 12:50 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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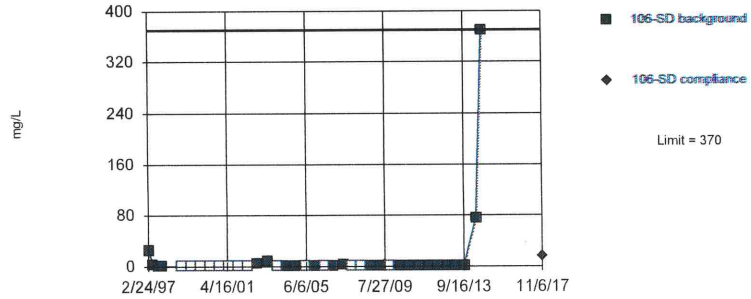
Hollow symbols indicate censored values.

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 12/30/2017 12:50 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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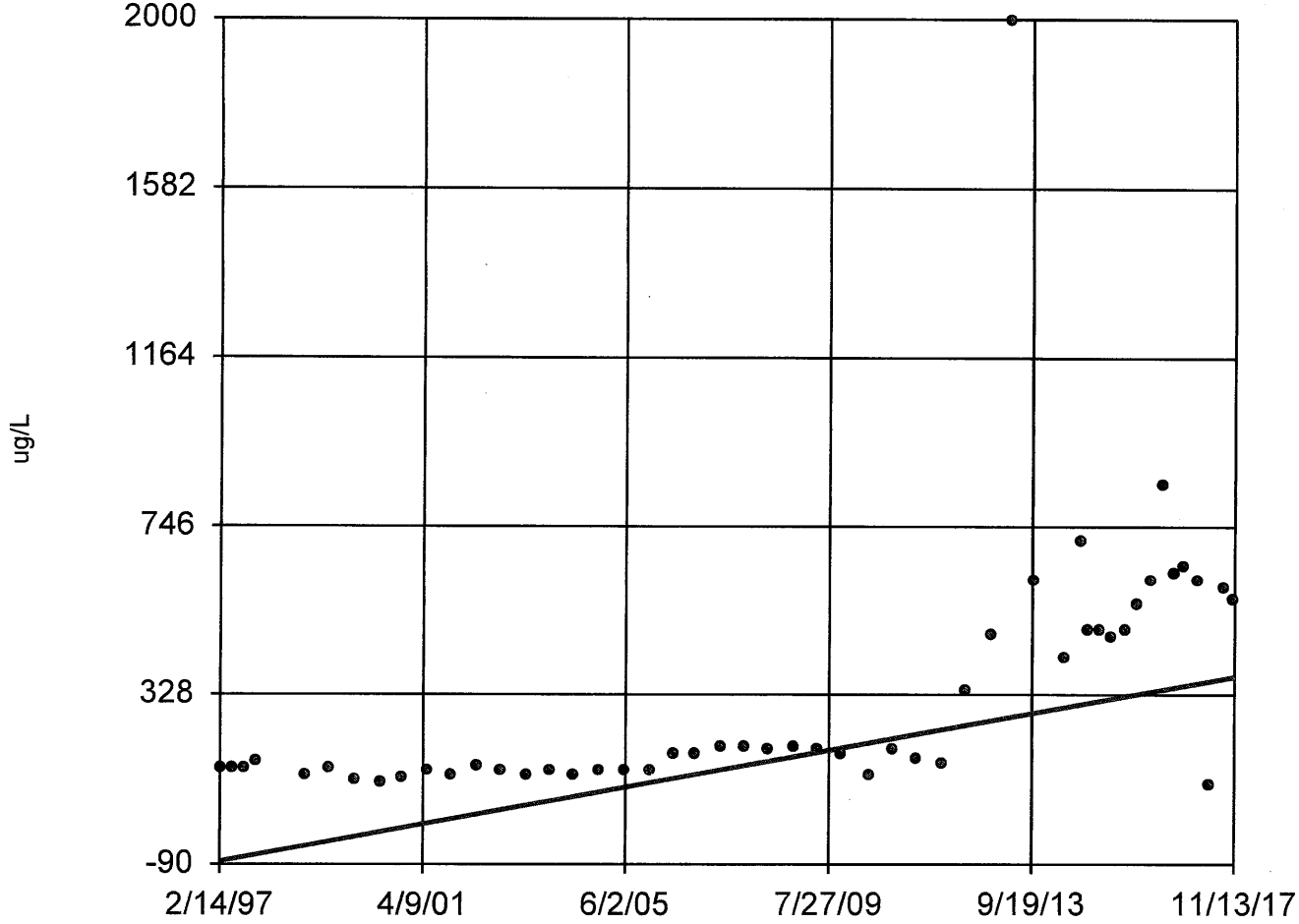
Sen's Slope Estimator

104-SD



n = 50

Slope = 21.9 units per year.

Mann-Kendall normal approx. = 5.913
critical = 2.33

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

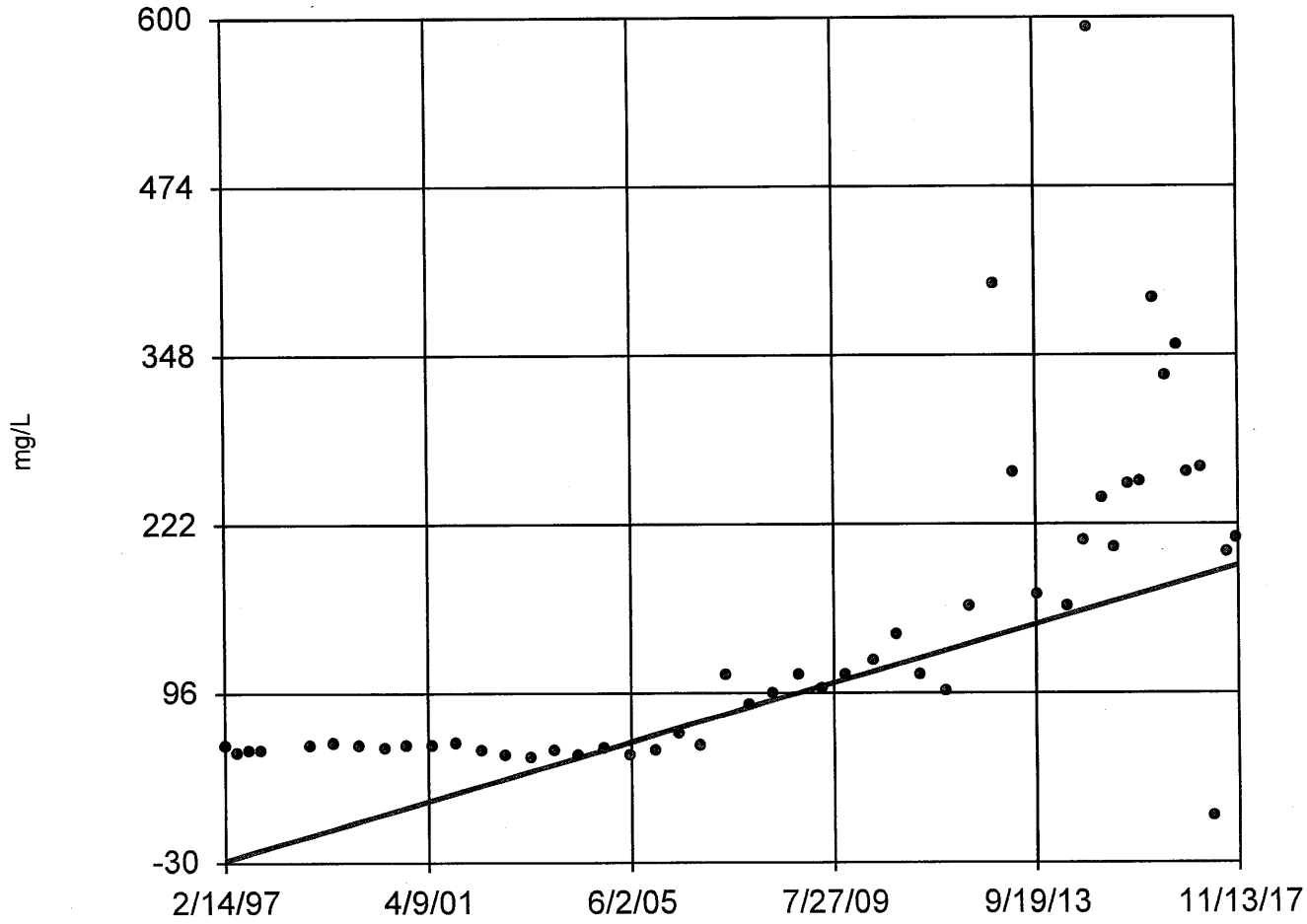
Constituent: Barium Total Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD



n = 50

Slope = 10.56 units per year.

Mann-Kendall normal approx. = 6.26
critical = 2.33

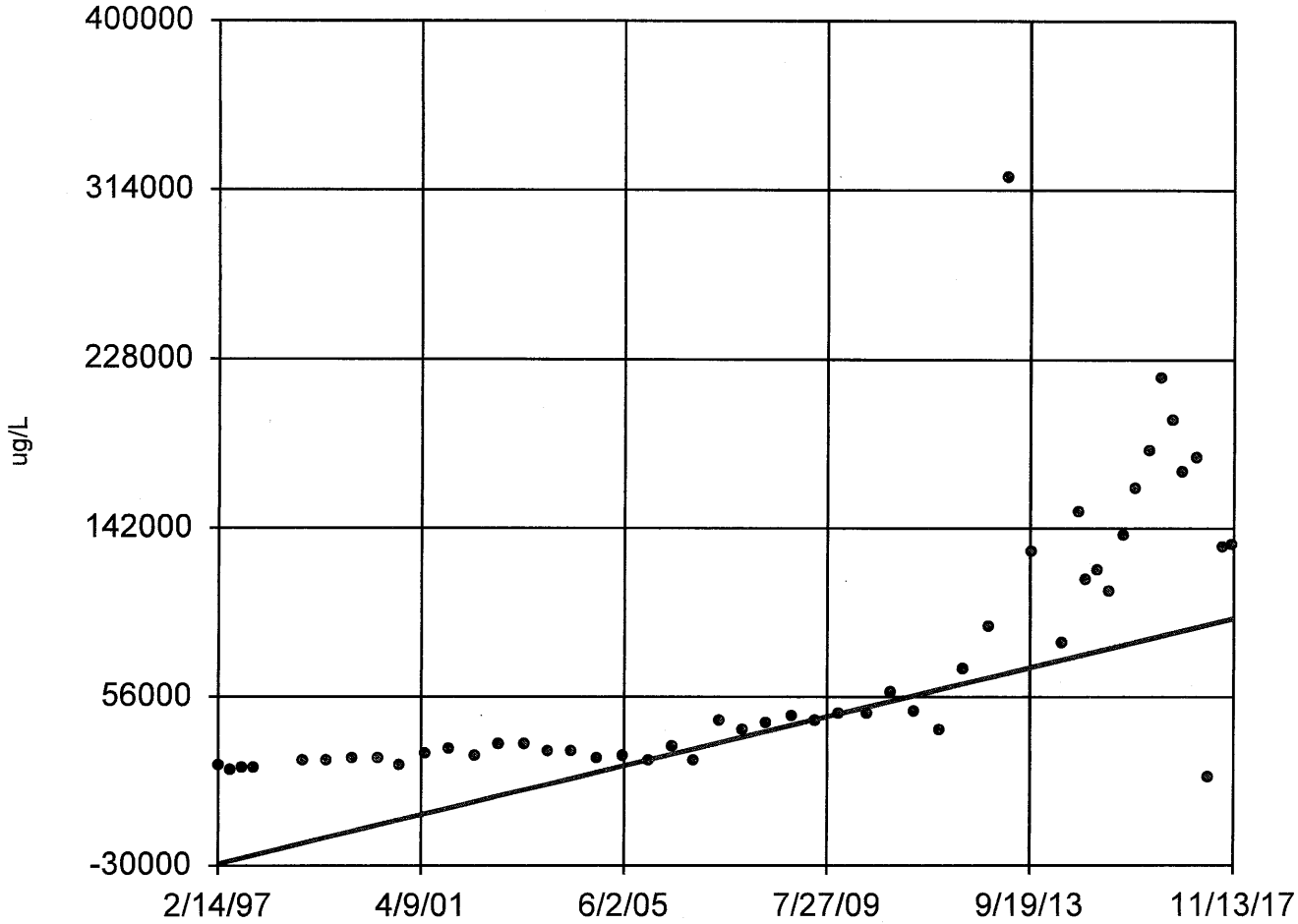
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

104-SD



n = 50

Slope = 6016 units per year.

Mann-Kendall normal approx. = 7.371
critical = 2.33

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

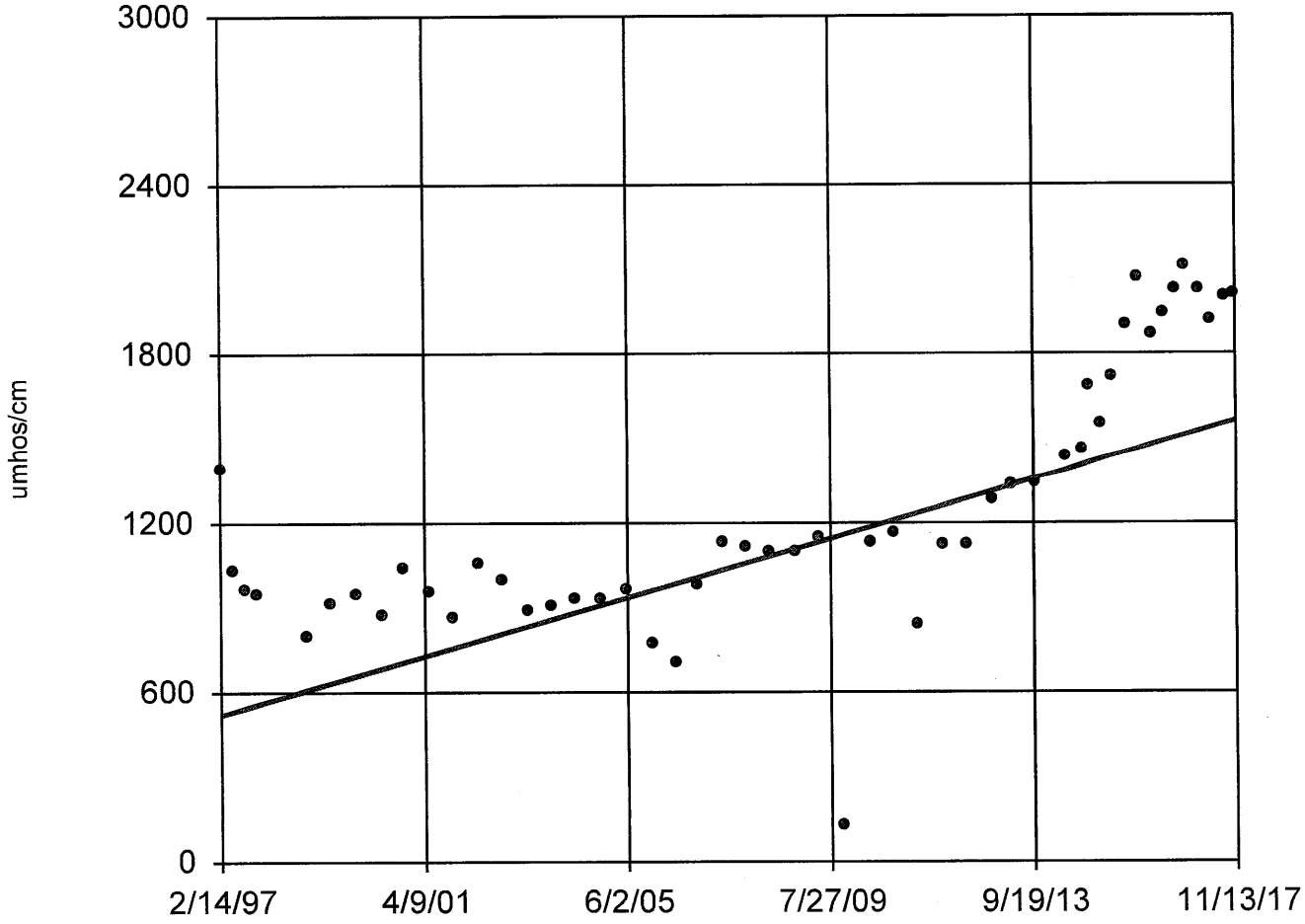
Constituent: Sodium Total Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD



n = 50

Slope = 50.2 units per year.

Mann-Kendall normal approx. = 6.442
critical = 2.33

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

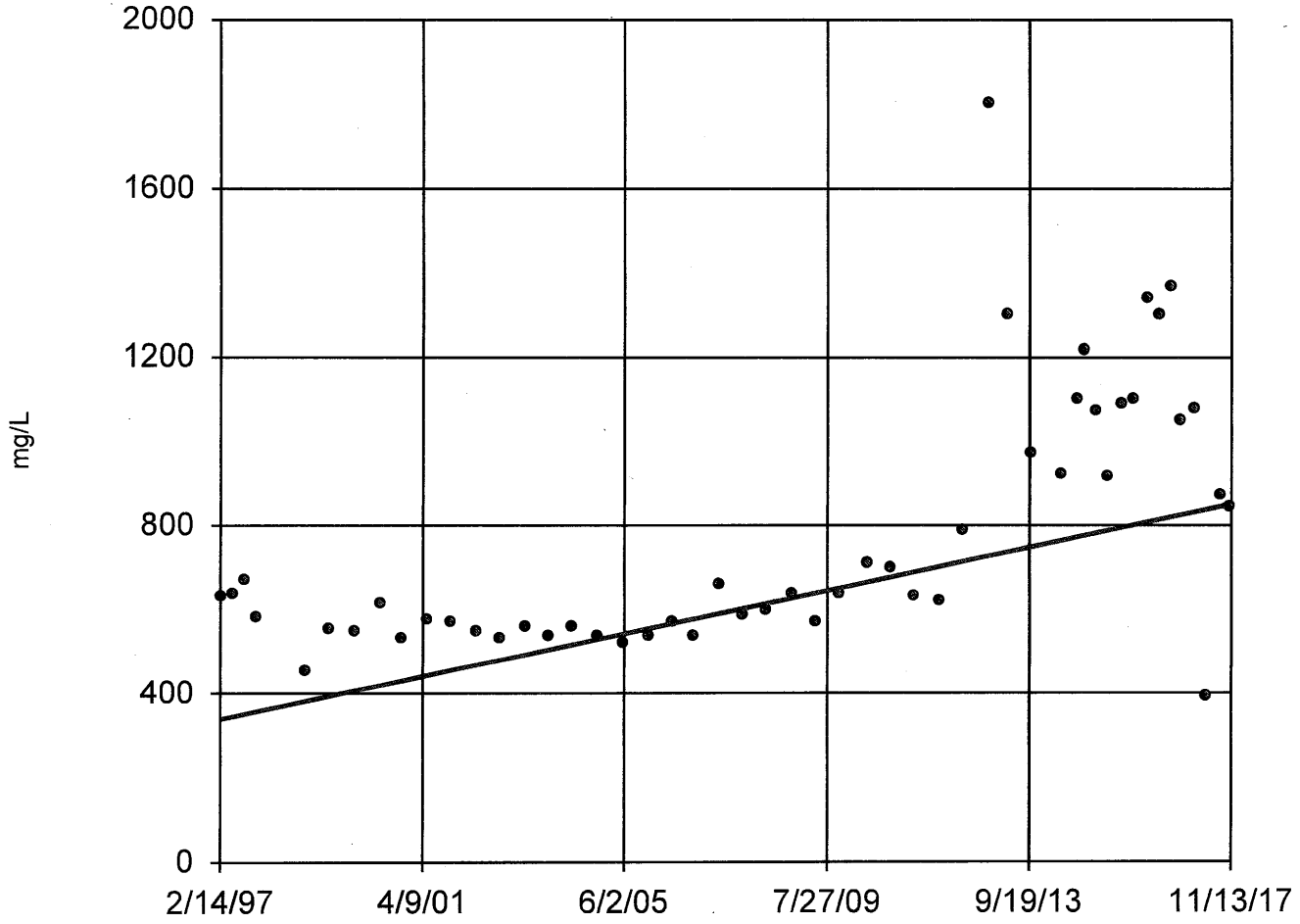
Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

Sen's Slope Estimator

104-SD



n = 50

Slope = 24.61 units per year.

Mann-Kendall normal approx. = 4.905
critical = 2.33

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

Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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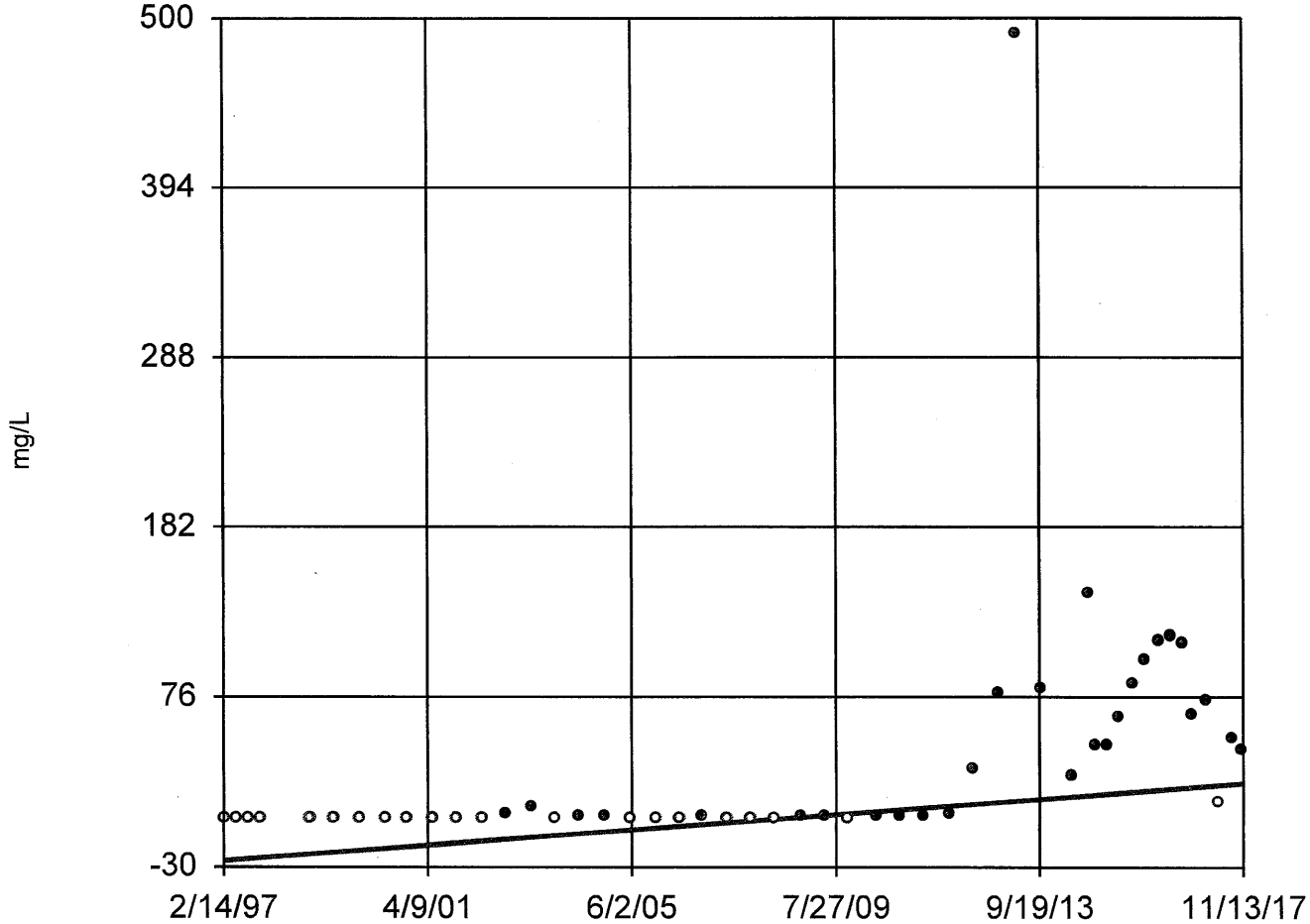
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD



n = 50

Slope = 2.325 units per year.

Mann-Kendall normal approx. = 6.329
critical = 2.33

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

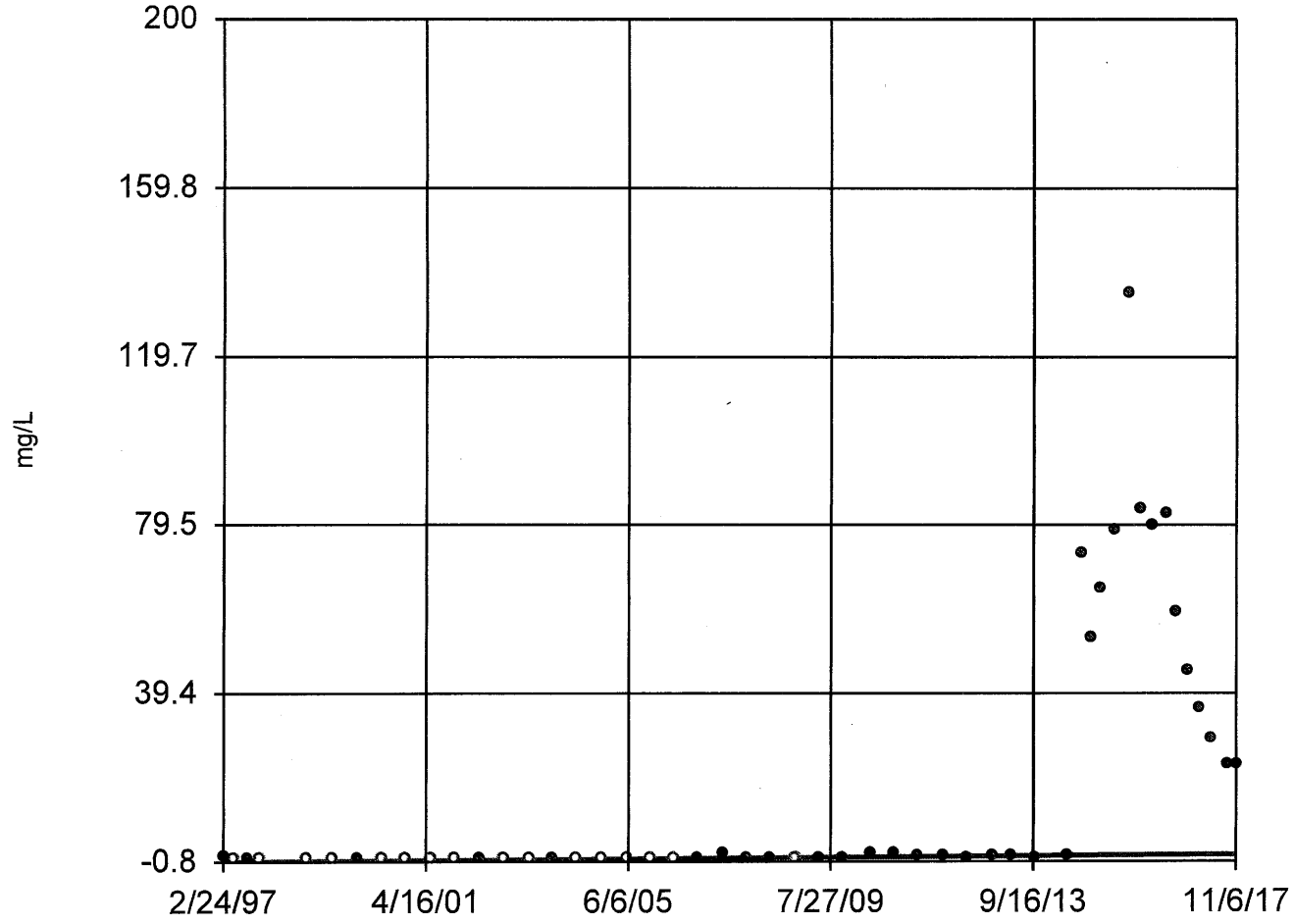
Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 2:24 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD



n = 50

Slope = 0.08202 units per year.

Mann-Kendall normal approx. = 6.184
critical = 2.33

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

Constituent: Ammonia as N Analysis Run 12/30/2017 2:25 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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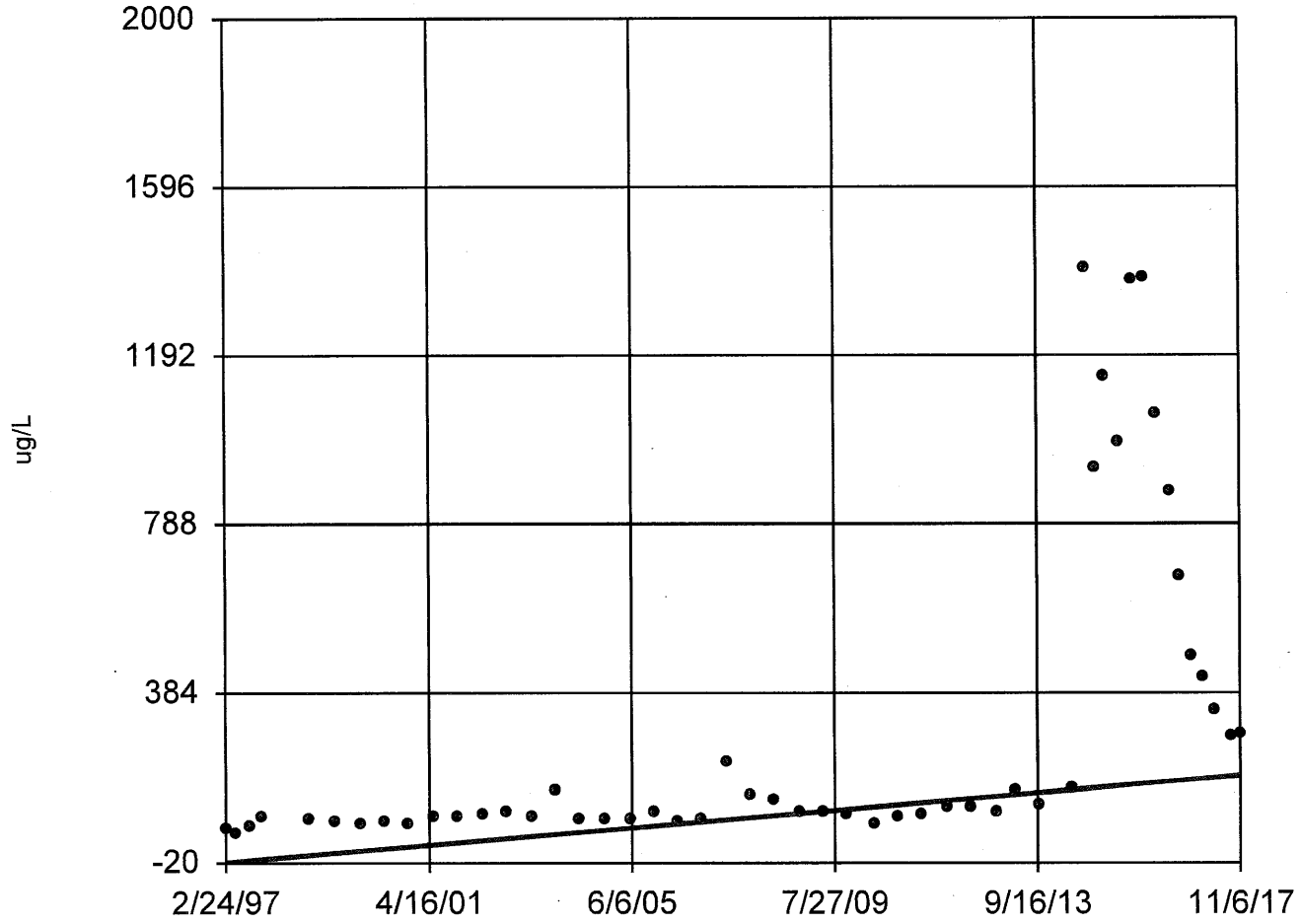
Sen's Slope Estimator

106-SD



n = 50

Slope = 9.938 units per year.

Mann-Kendall normal approx. = 6.267
critical = 2.33

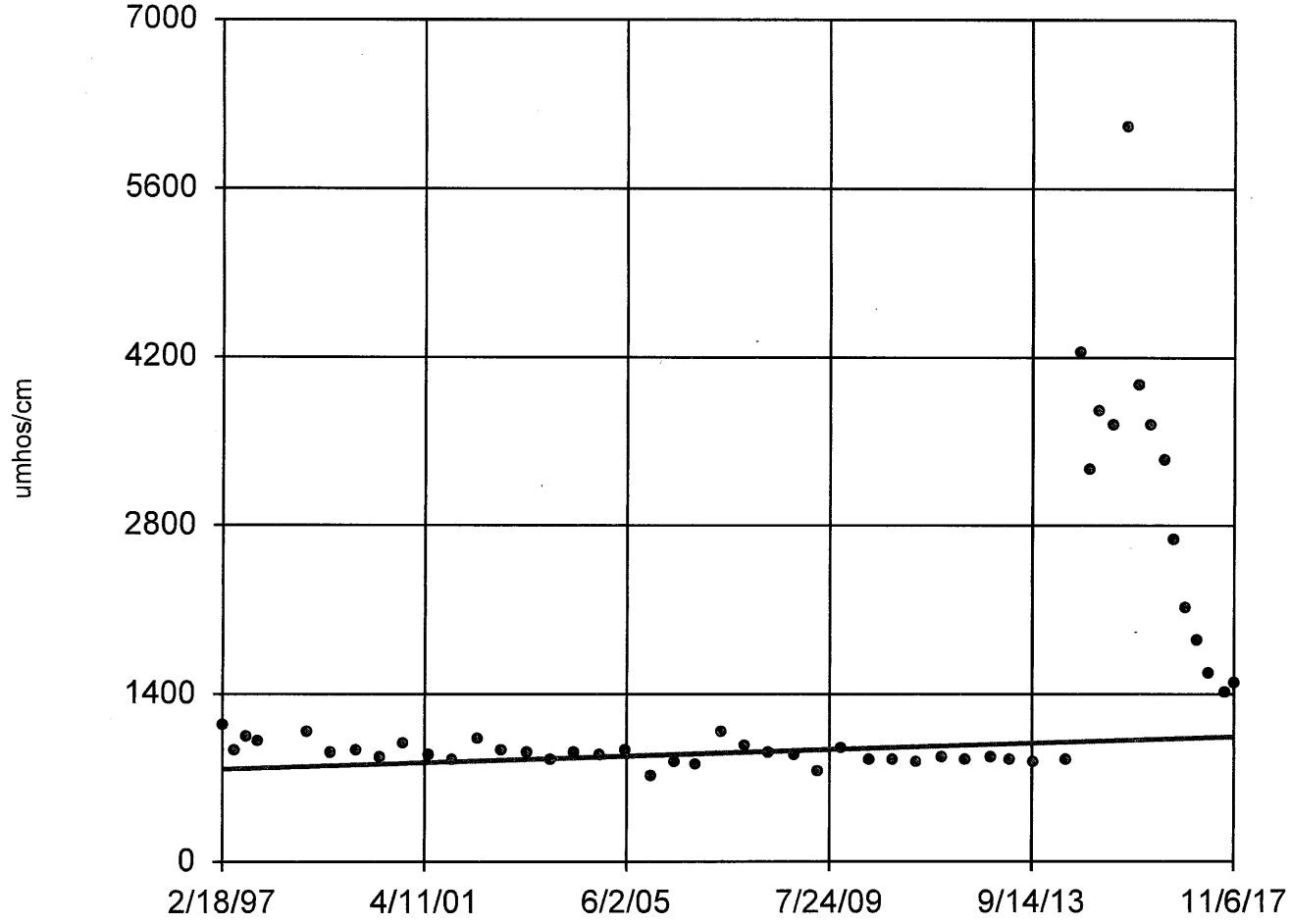
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 12/30/2017 2:25 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

106-SD



n = 50

Slope = 13
units per year.

Mann-Kendall
normal approx. =
1.322
critical = 2.33

Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

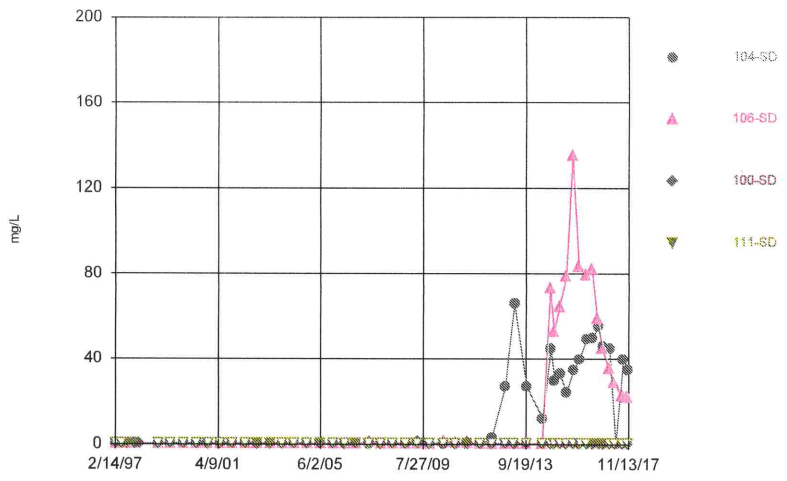
Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 2:25 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

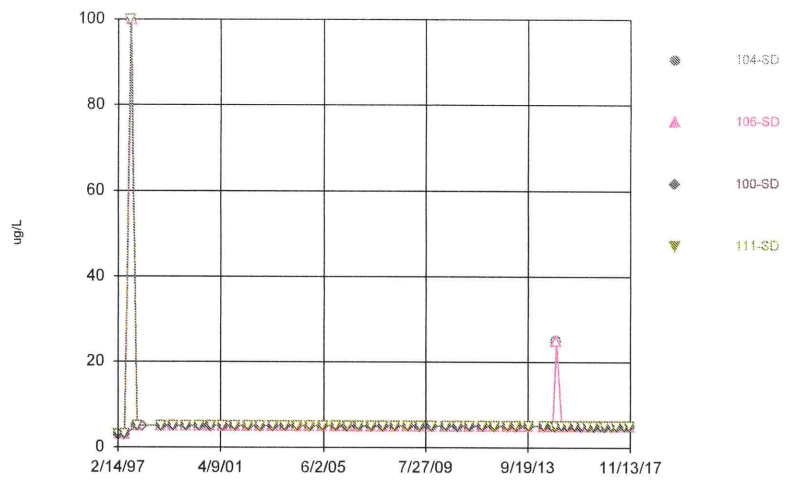
Time Series



Constituent: Ammonia as N Analysis Run 12/30/2017 1:20 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

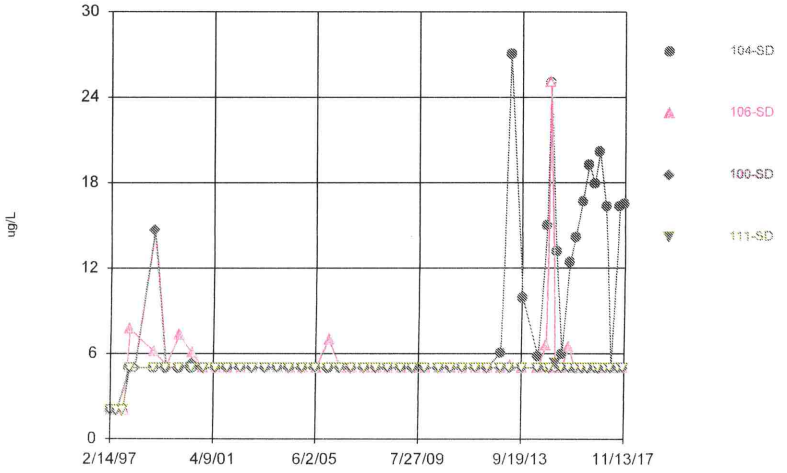
Time Series



Constituent: Antimony Total Analysis Run 12/30/2017 1:20 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

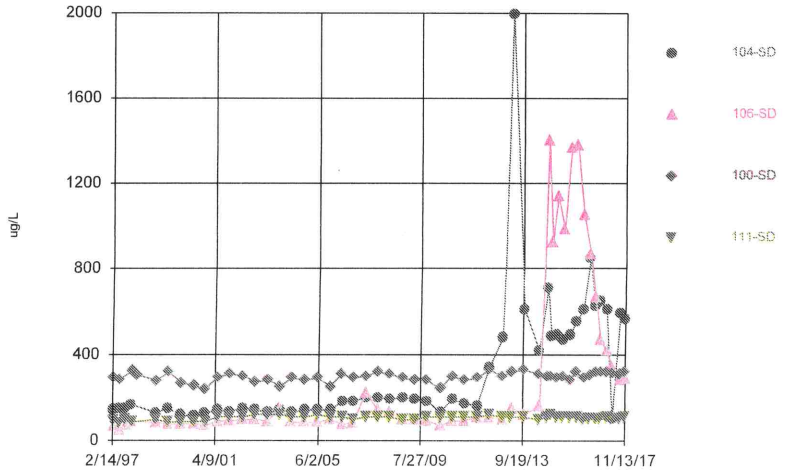
Time Series



Constituent: Arsenic Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

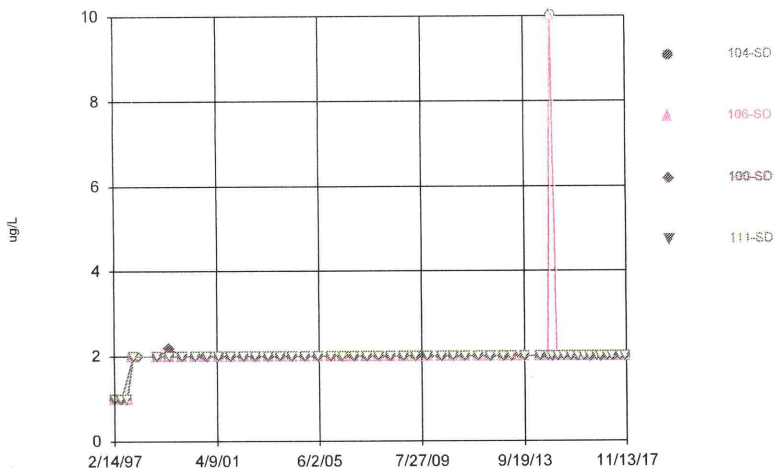
Time Series



Constituent: Barium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

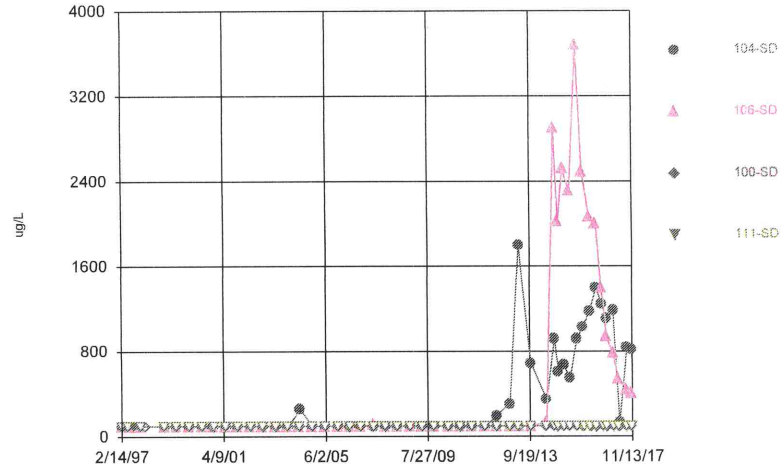
Time Series



Constituent: Beryllium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

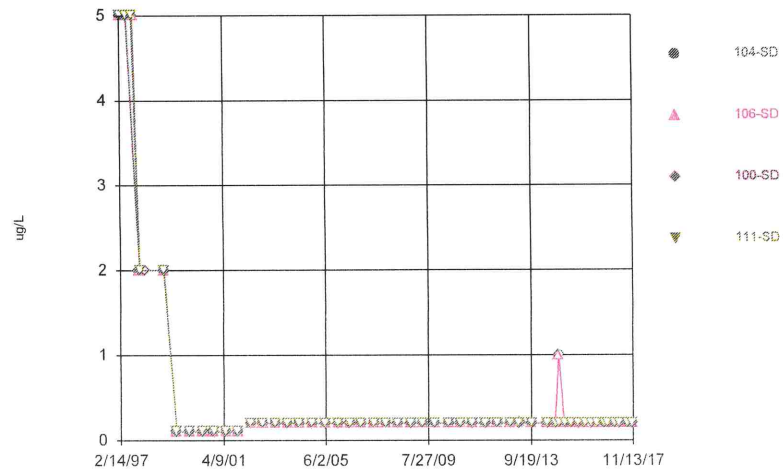
Time Series



Constituent: Boron Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

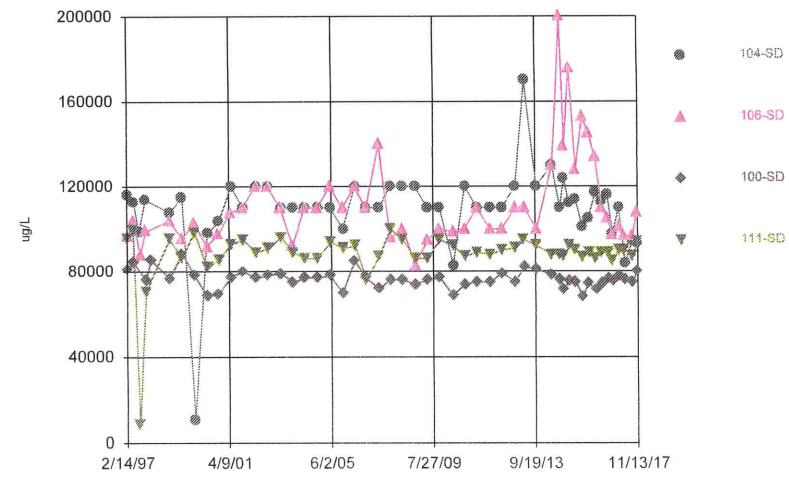
Time Series



Constituent: Cadmium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

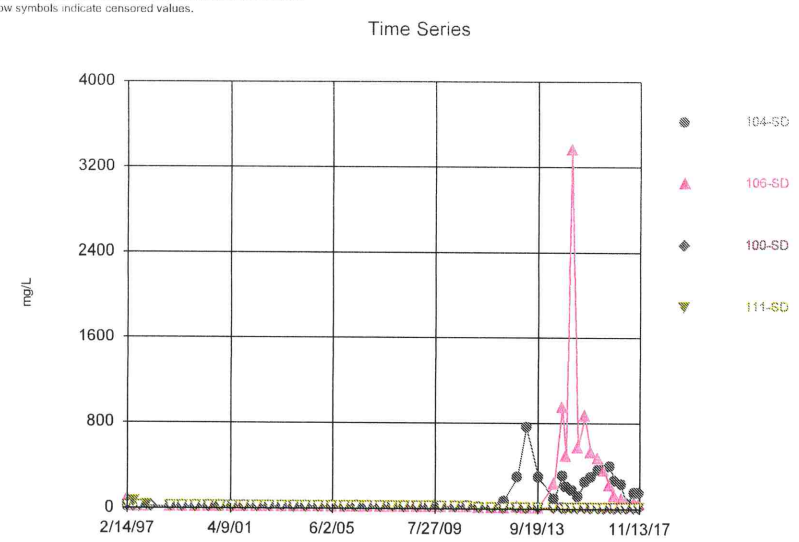
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Time Series



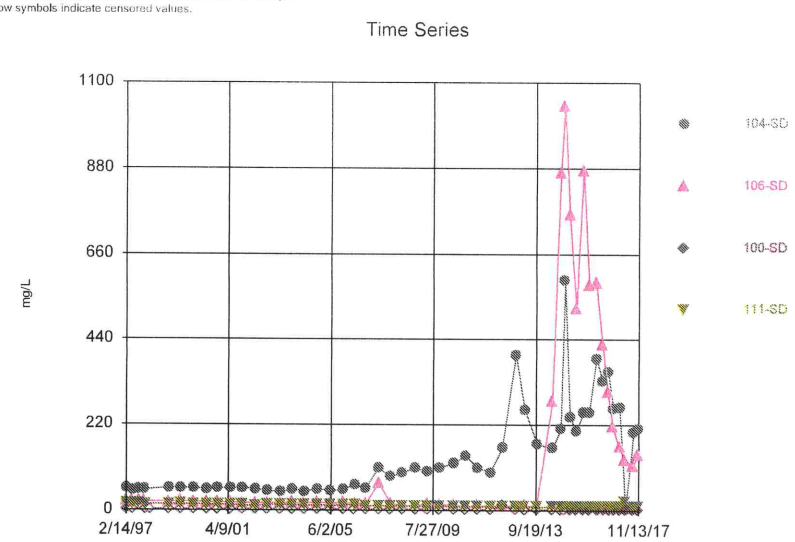
Constituent: Calcium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



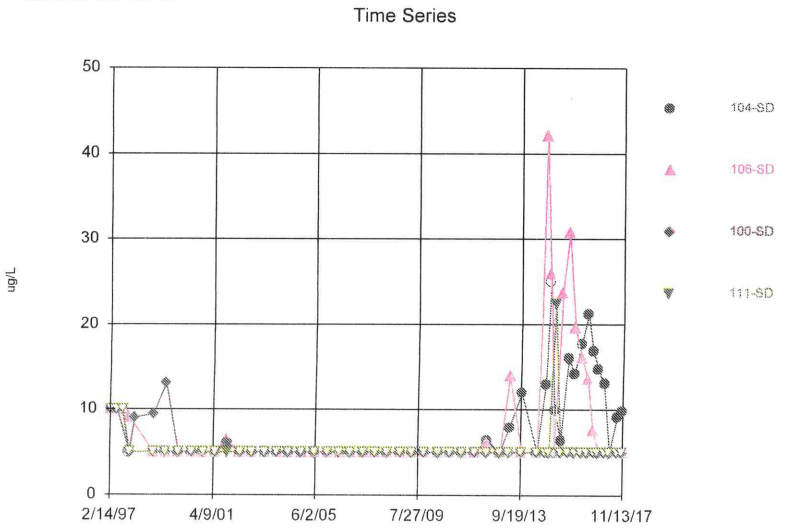
Constituent: Chemical Oxygen Demand [COD] Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



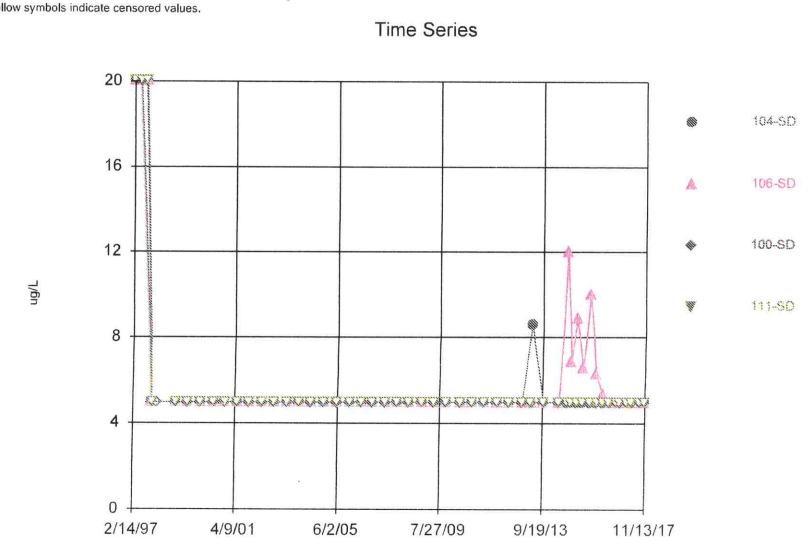
Constituent: Chloride Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Chromium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

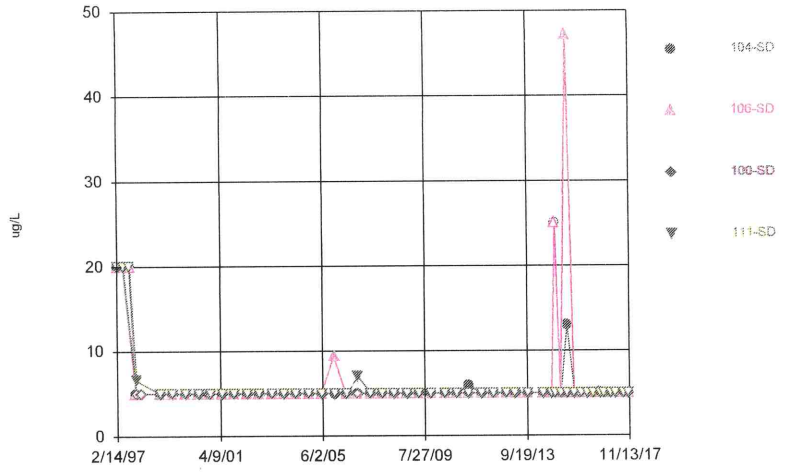
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Cobalt Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

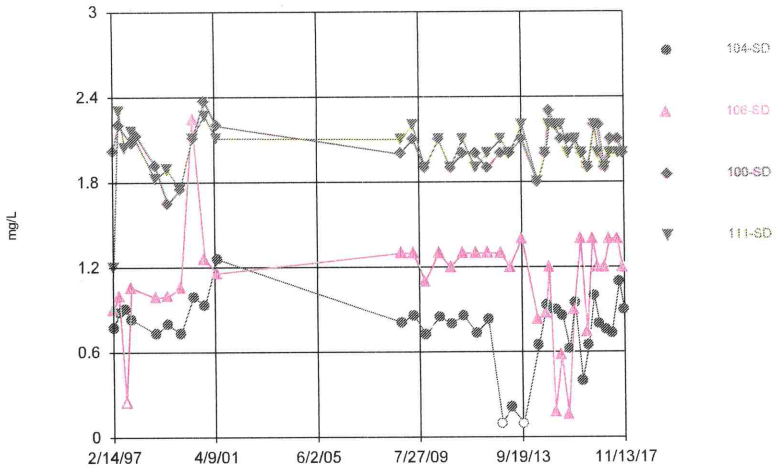
Time Series



Constituent: Copper Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

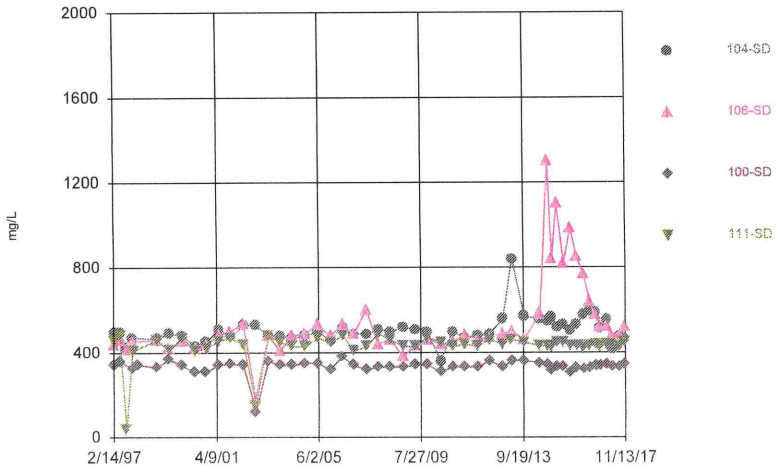
Time Series



Constituent: Fluoride Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG

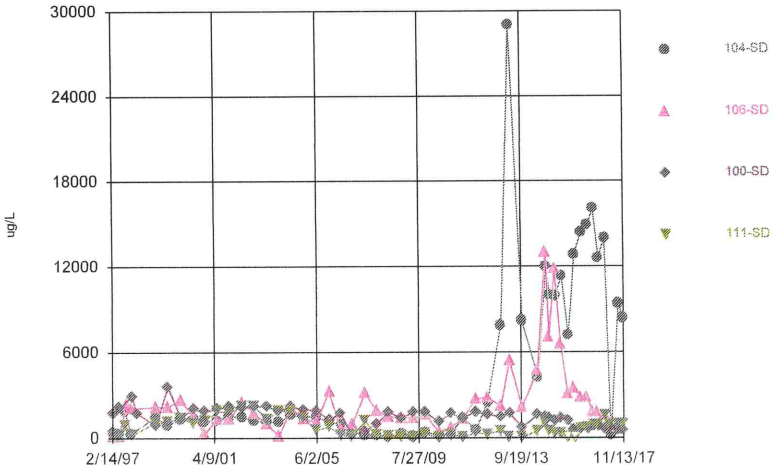
Time Series



Constituent: Hardness Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

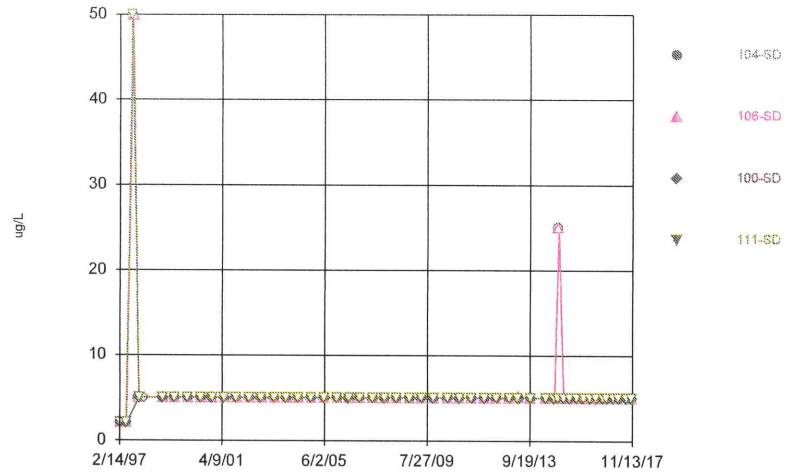
Time Series



Constituent: Iron Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

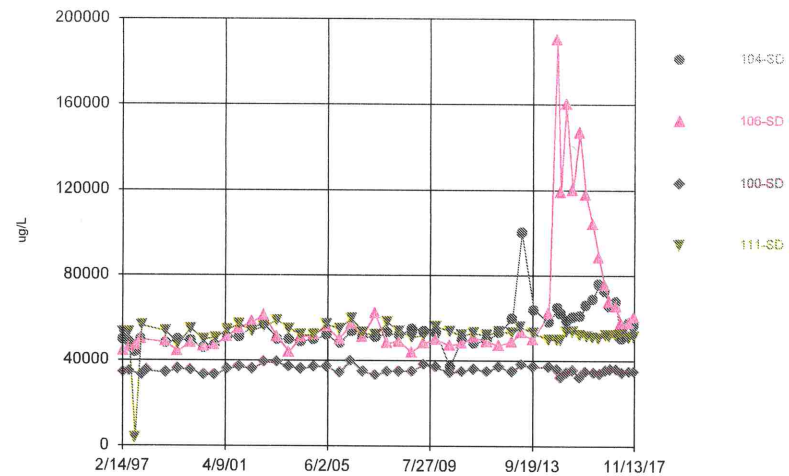
Time Series



Constituent: Lead Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

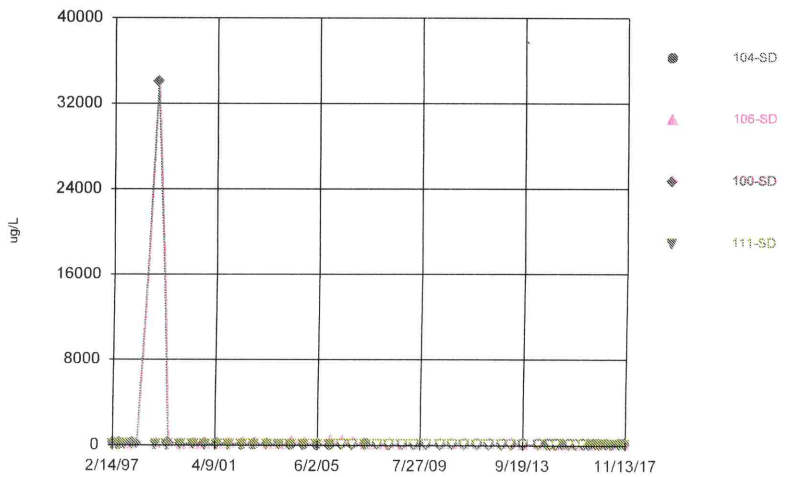
Time Series



Constituent: Magnesium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

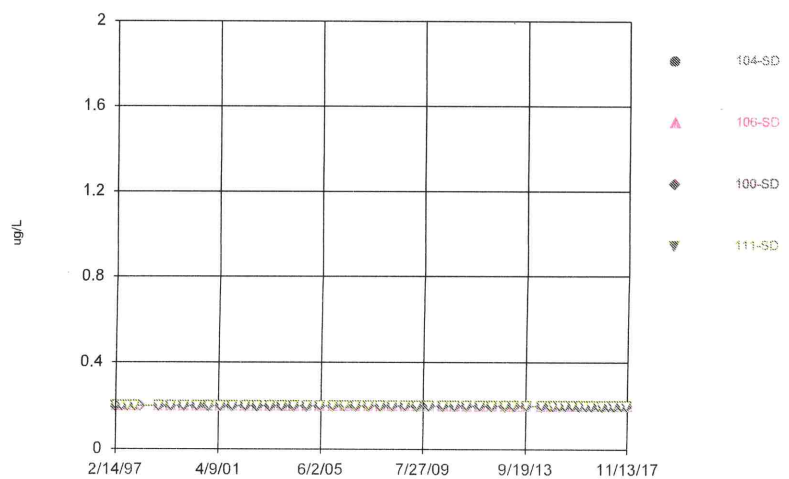
Time Series



Constituent: Manganese Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

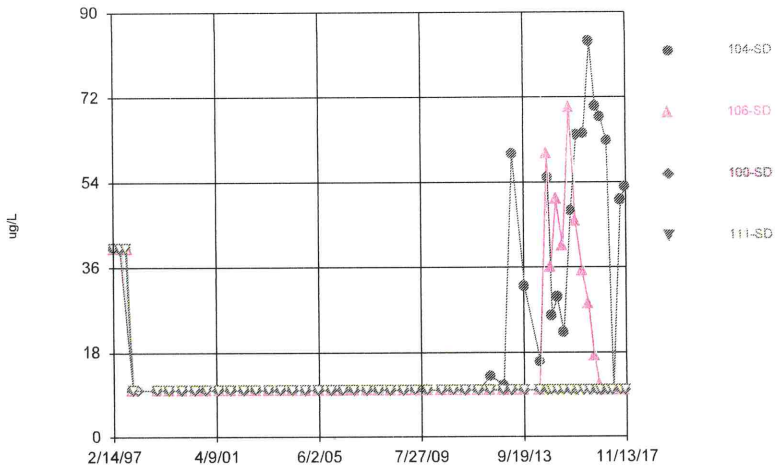
Time Series



Constituent: Mercury Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

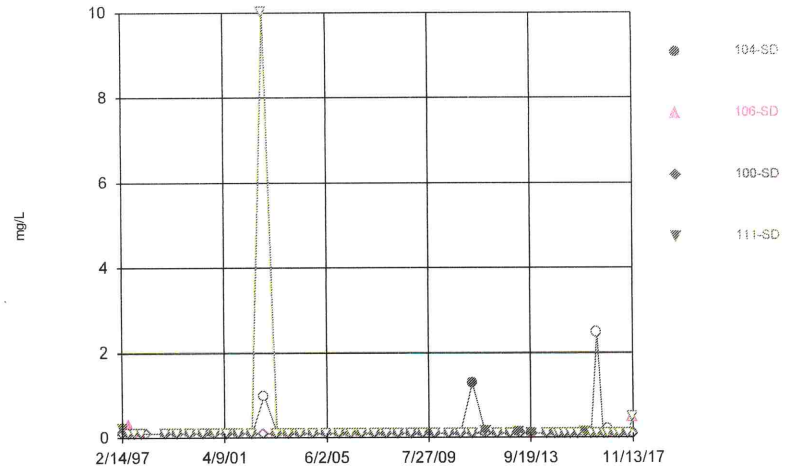
Time Series



Constituent: Nickel Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

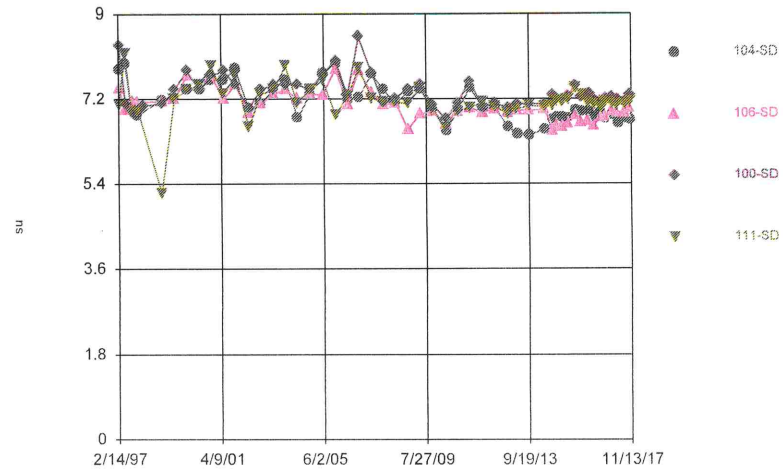
Time Series



Constituent: Nitrate/Nitrite Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

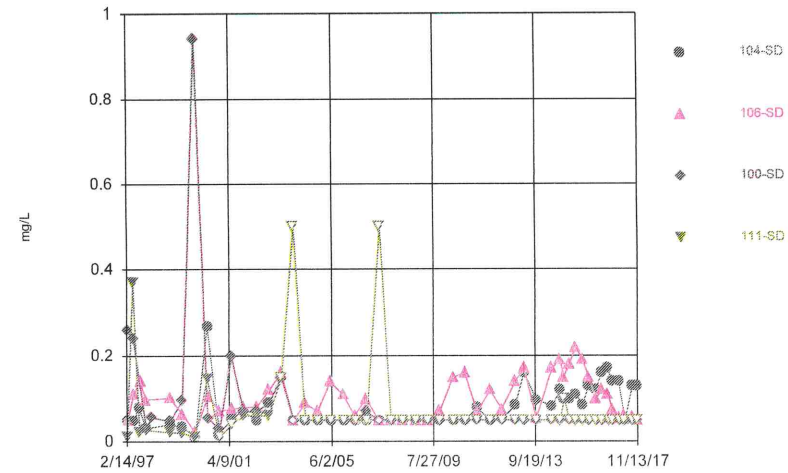
Time Series



Constituent: pH [Field] Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

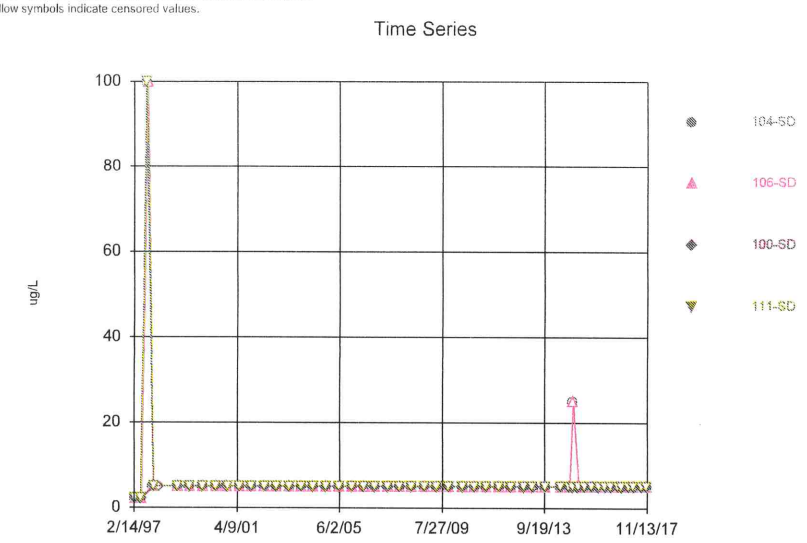
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



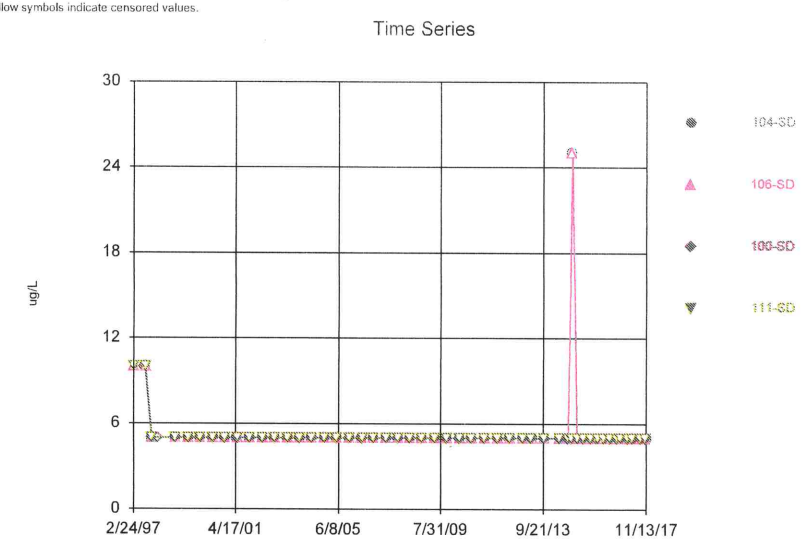
Constituent: Phosphorus Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



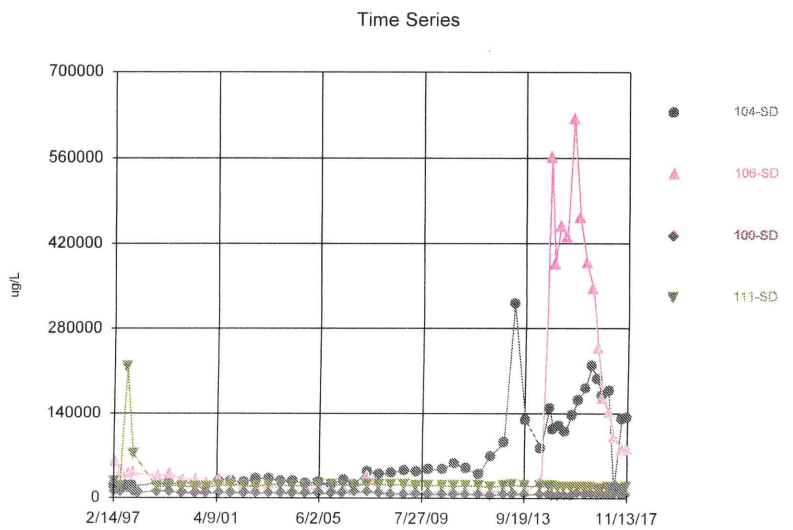
Constituent: Selenium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



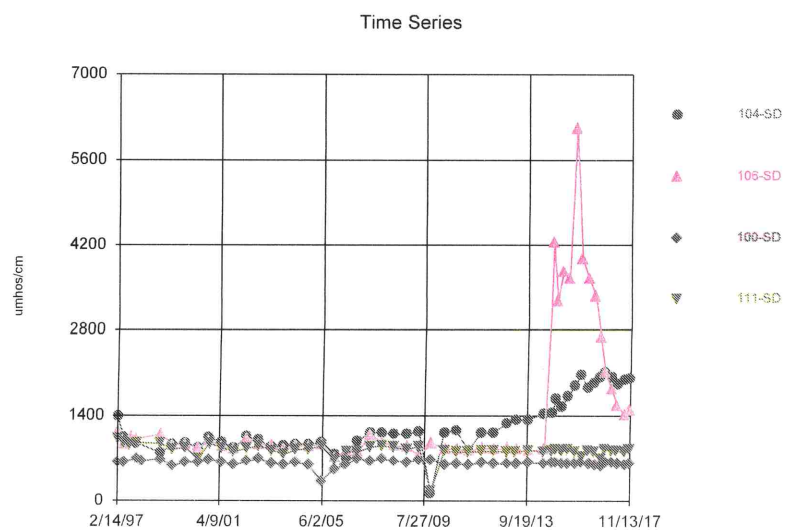
Constituent: Silver Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG



Constituent: Sodium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

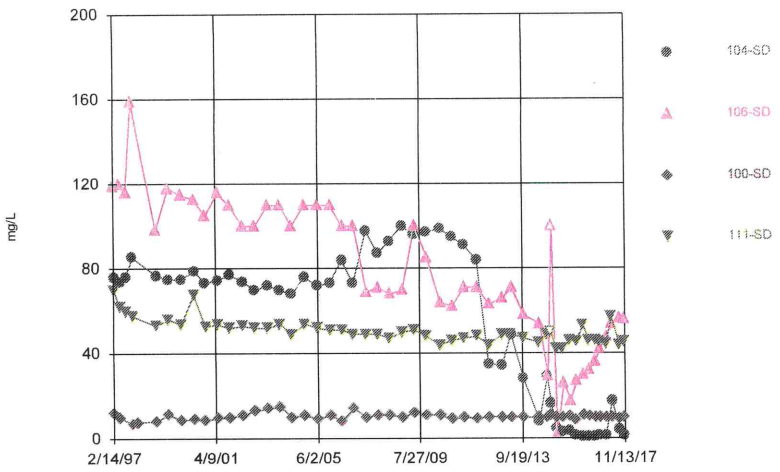
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG



Constituent: Specific Conductance [Field] Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

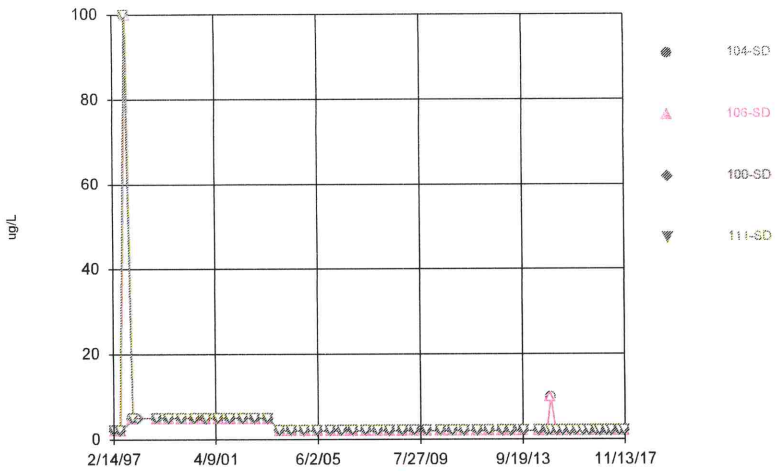
Time Series



Constituent: Sulfate Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

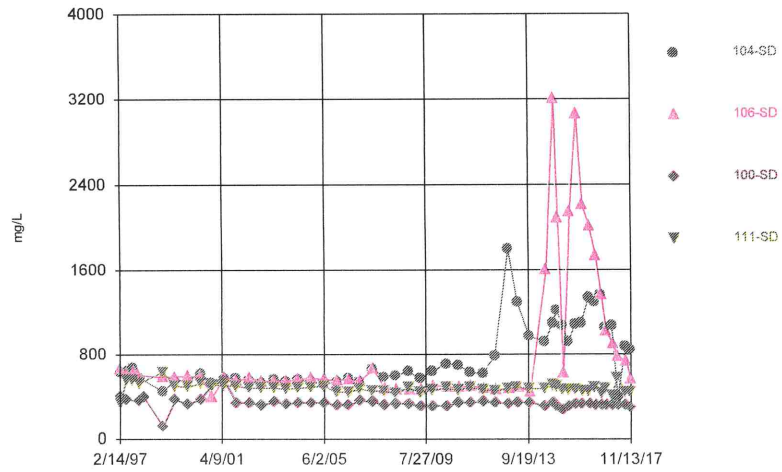
Time Series



Constituent: Thallium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG

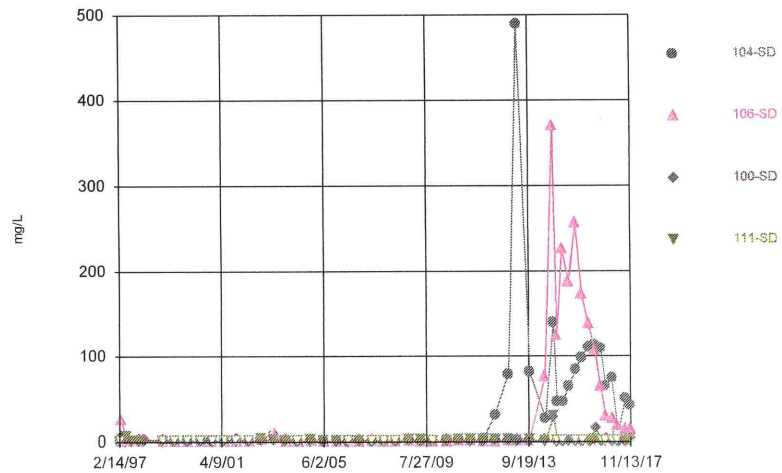
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

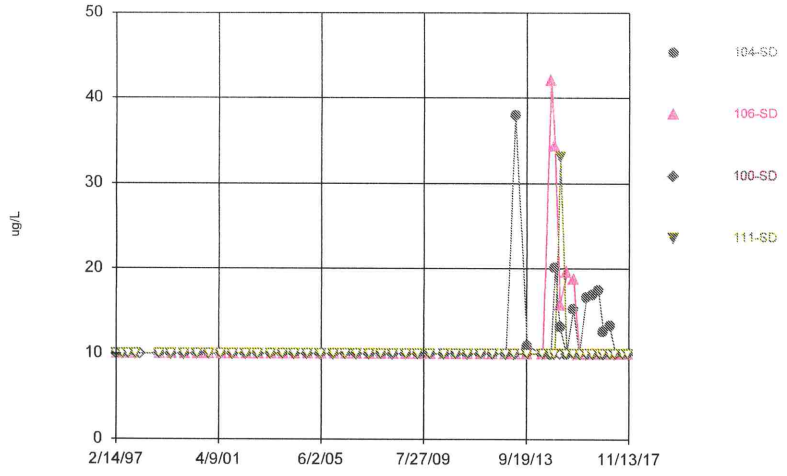
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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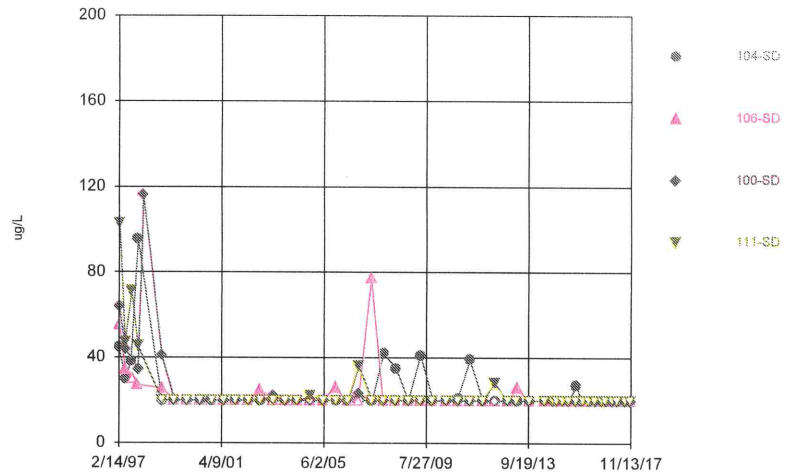
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Total Analysis Run 12/30/2017 1:21 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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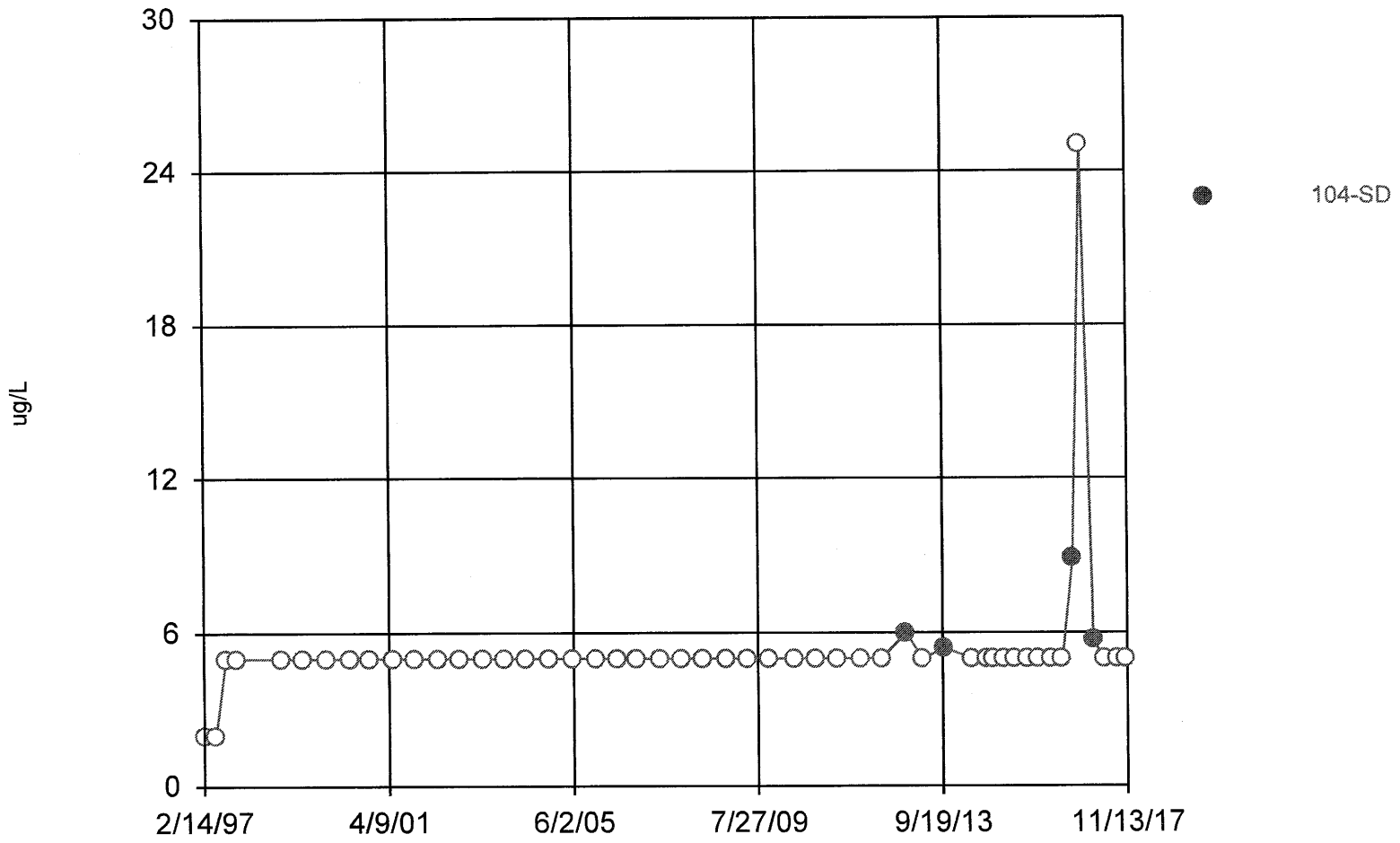
Hollow symbols indicate censored values.

Time Series

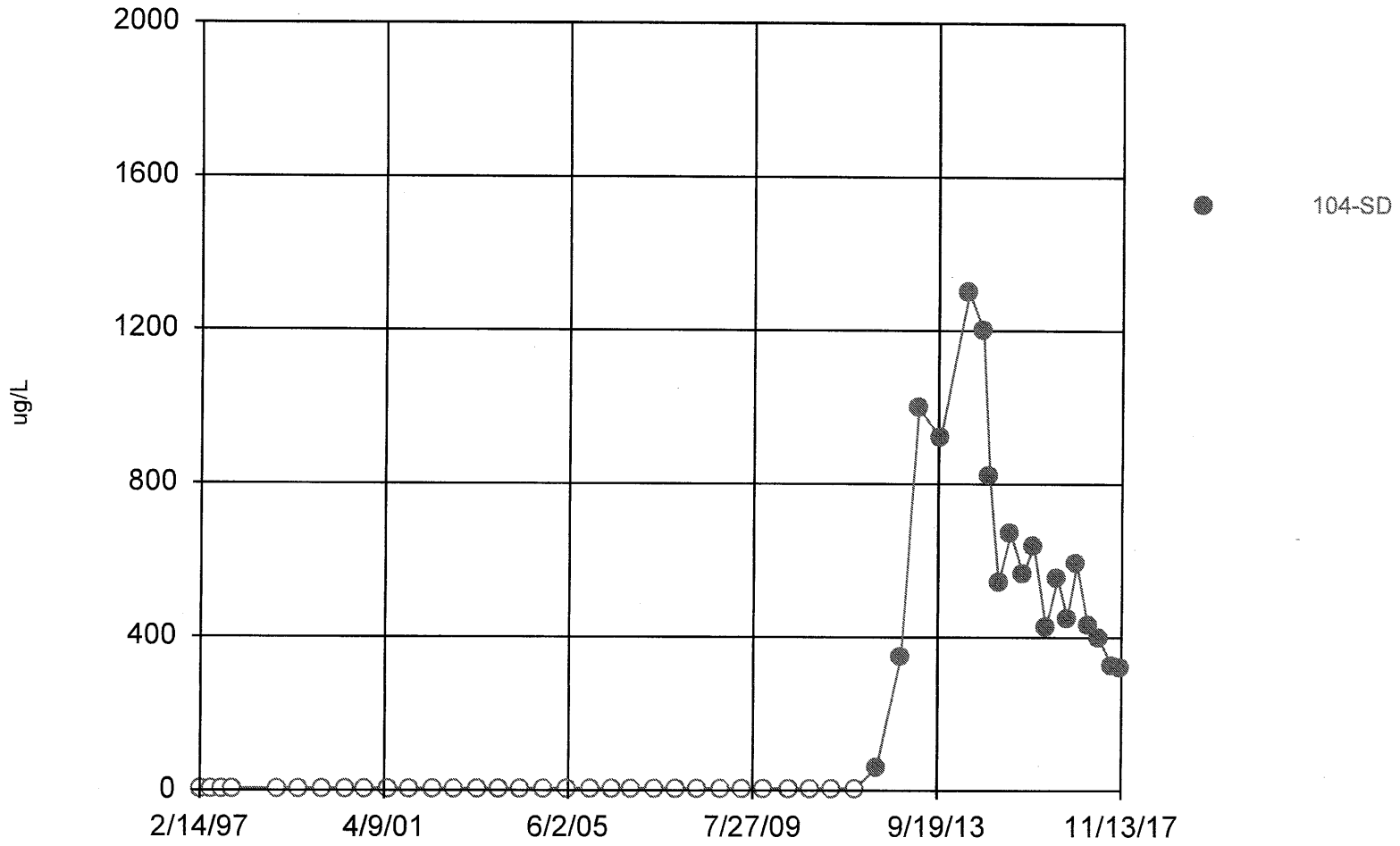


Constituent: 14-Dichlorobenzene Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

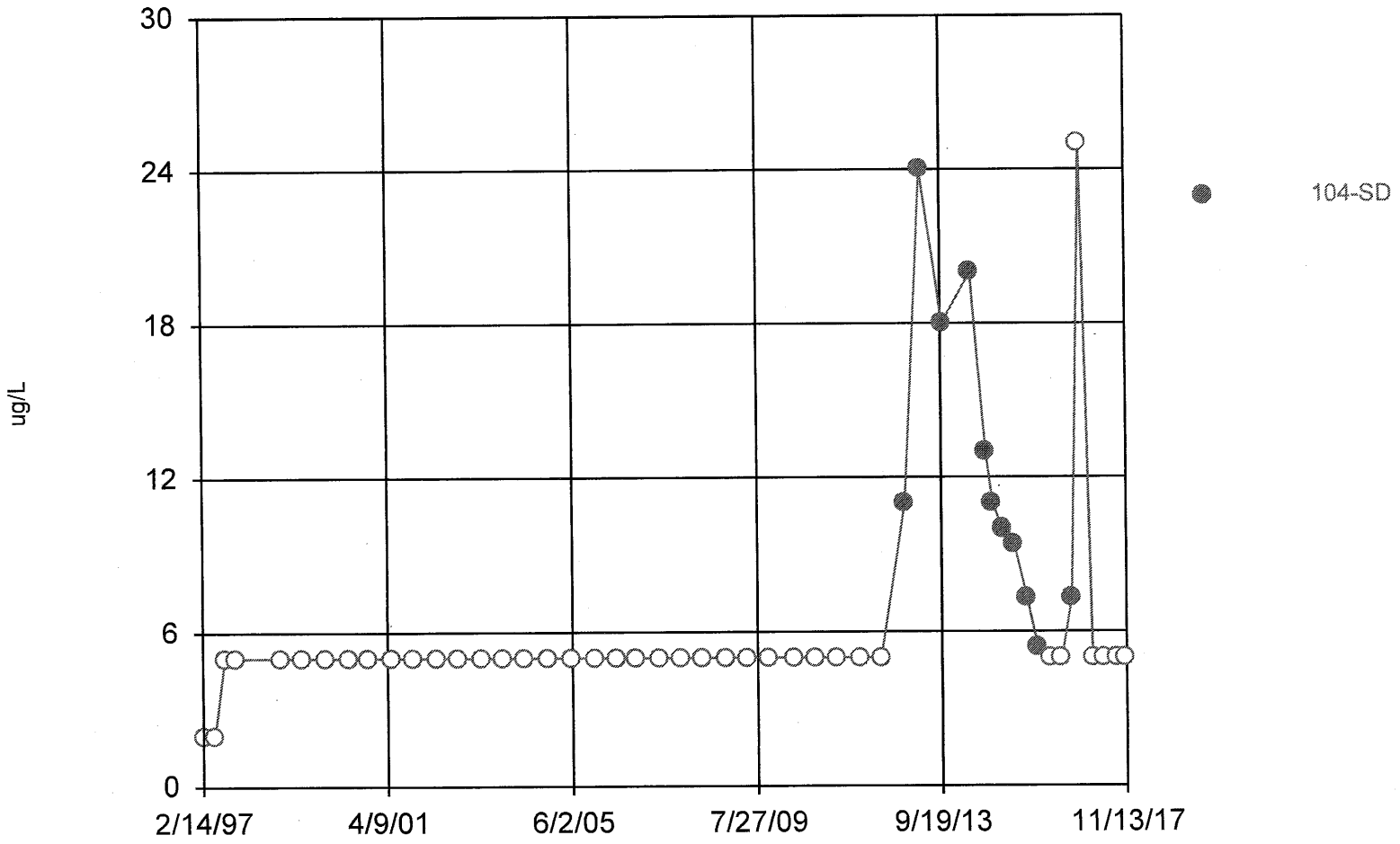


Constituent: Benzene Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

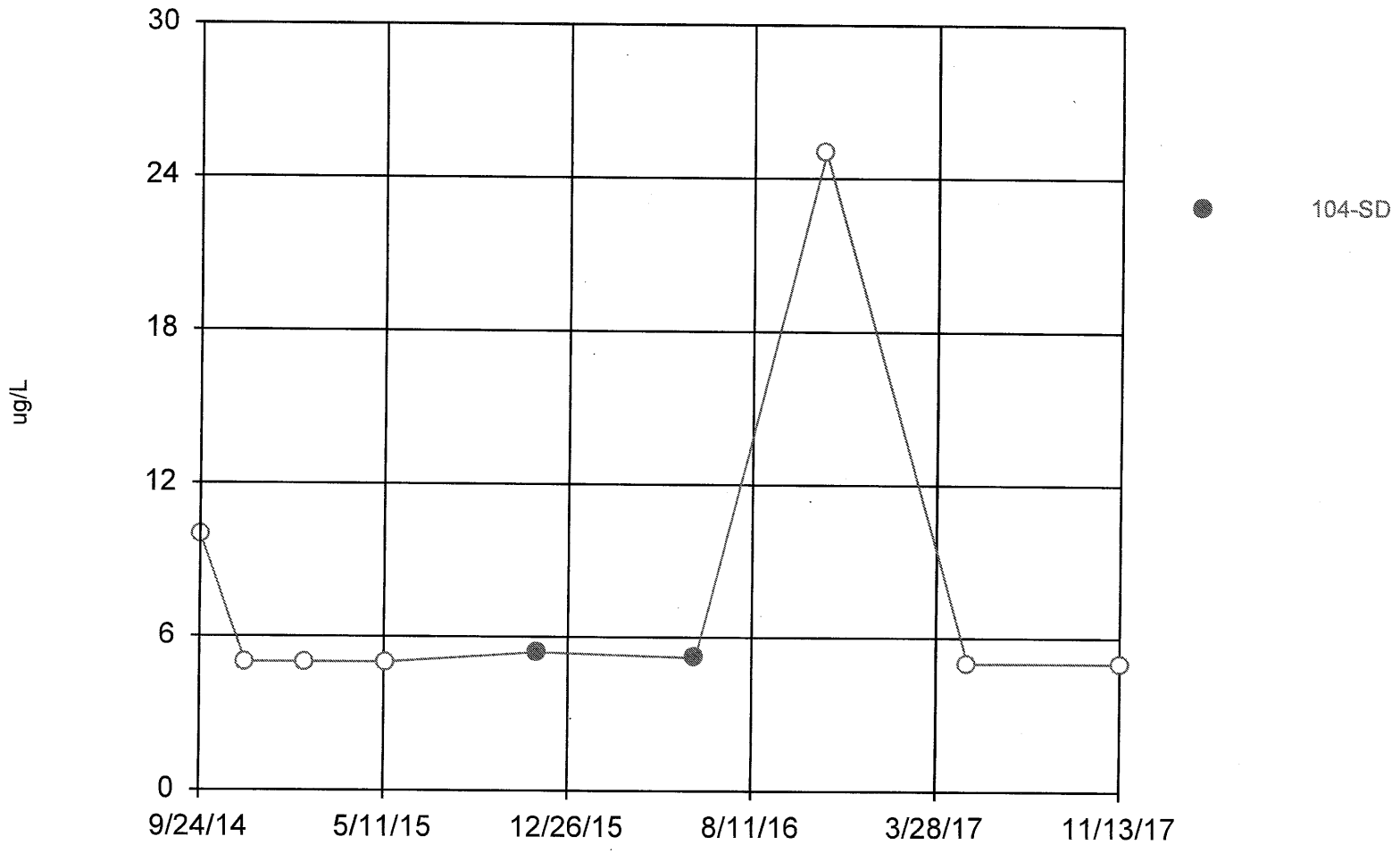


Constituent: Ethylbenzene Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

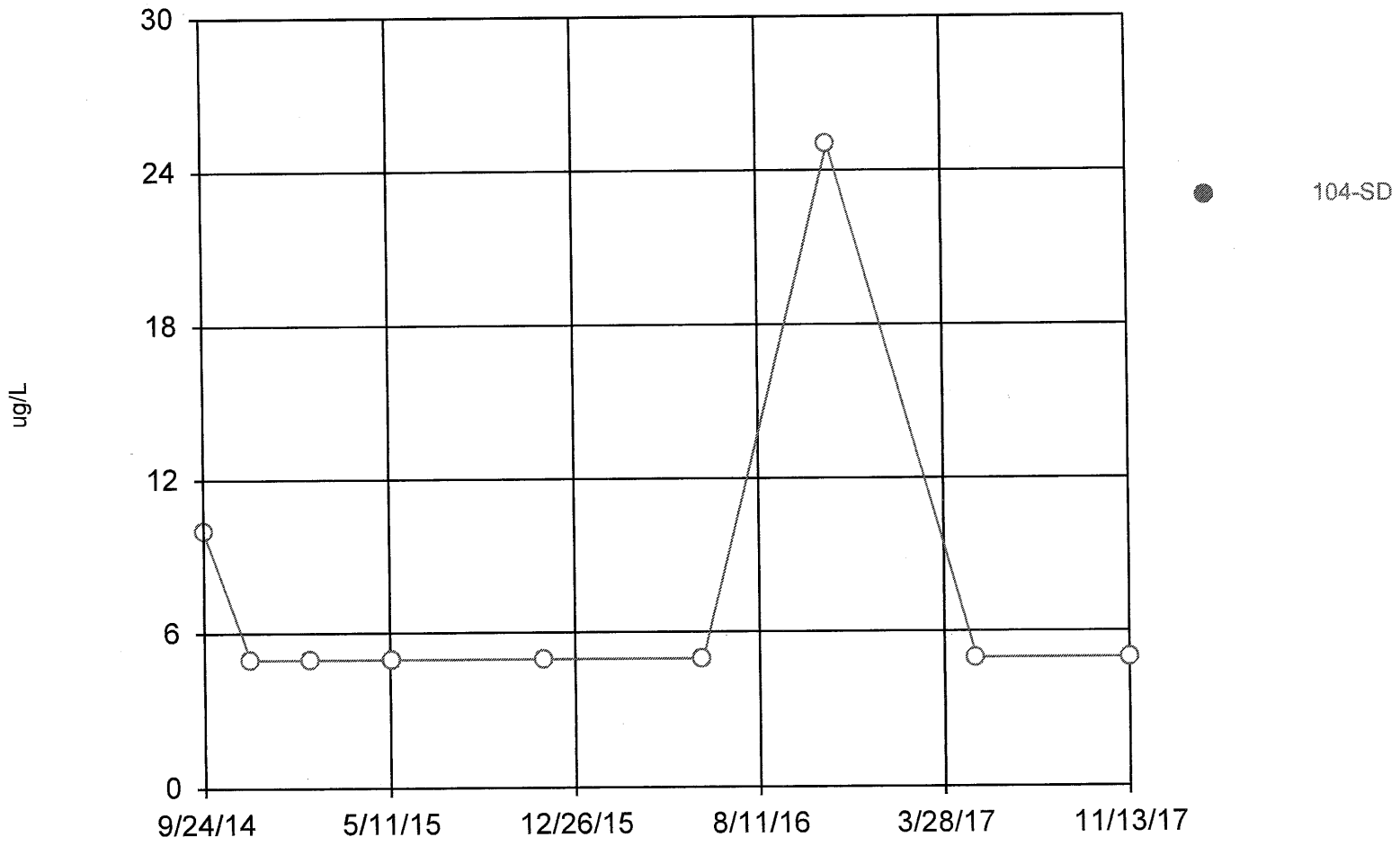


Constituent: Methyl-tert-butyl ether Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

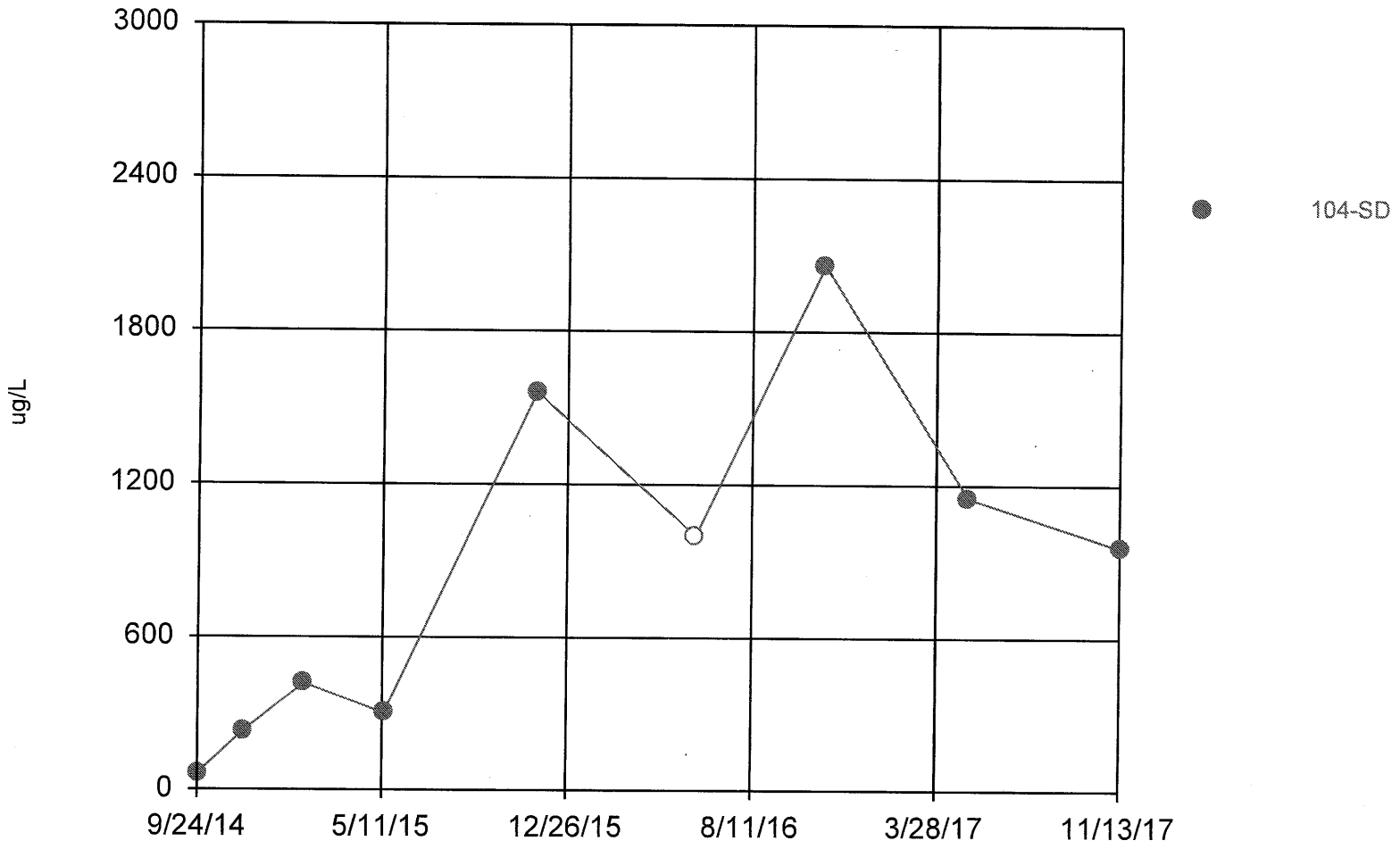


Constituent: p-Isopropyltoluene Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

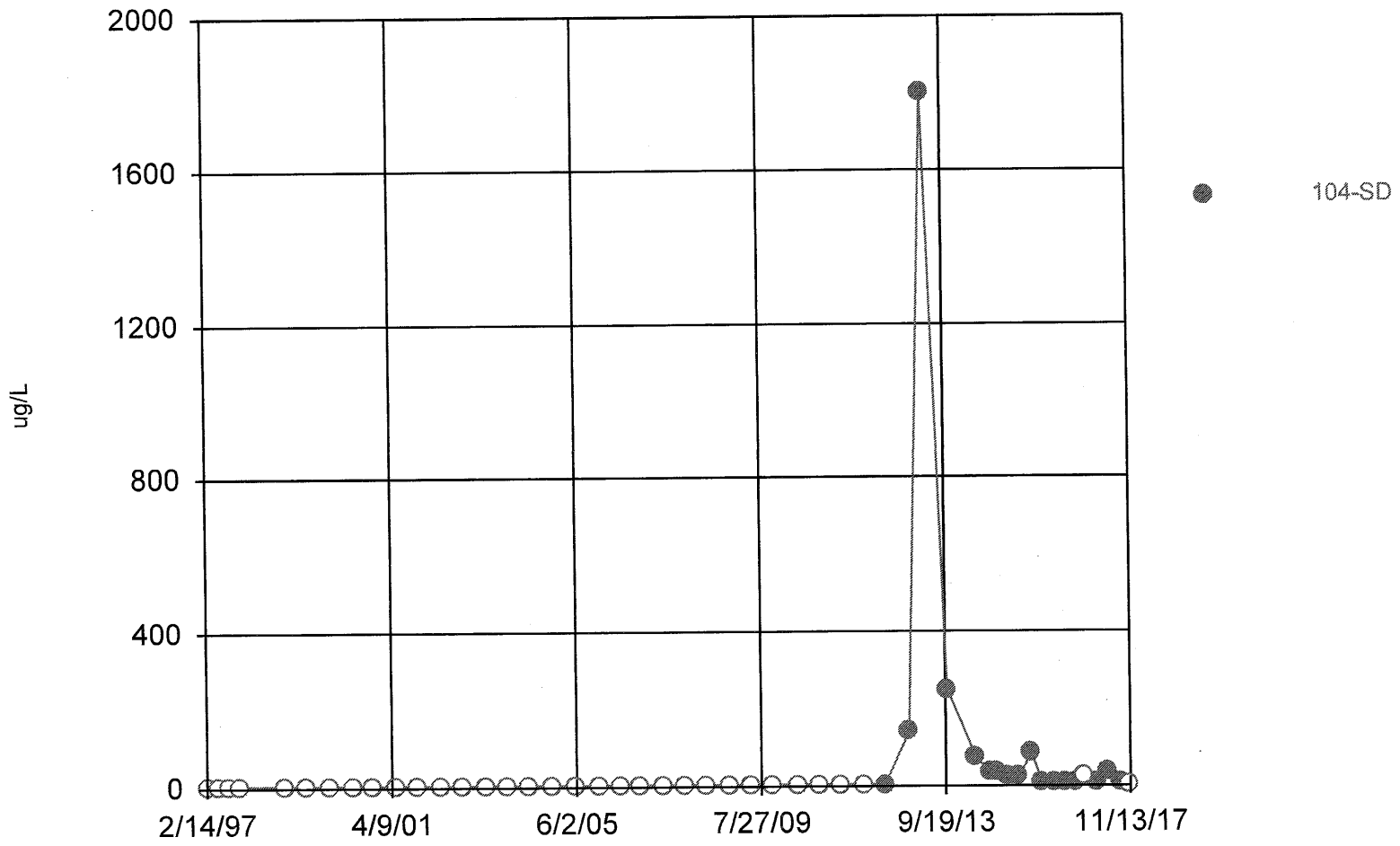


Constituent: Tetrahydrofuran Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

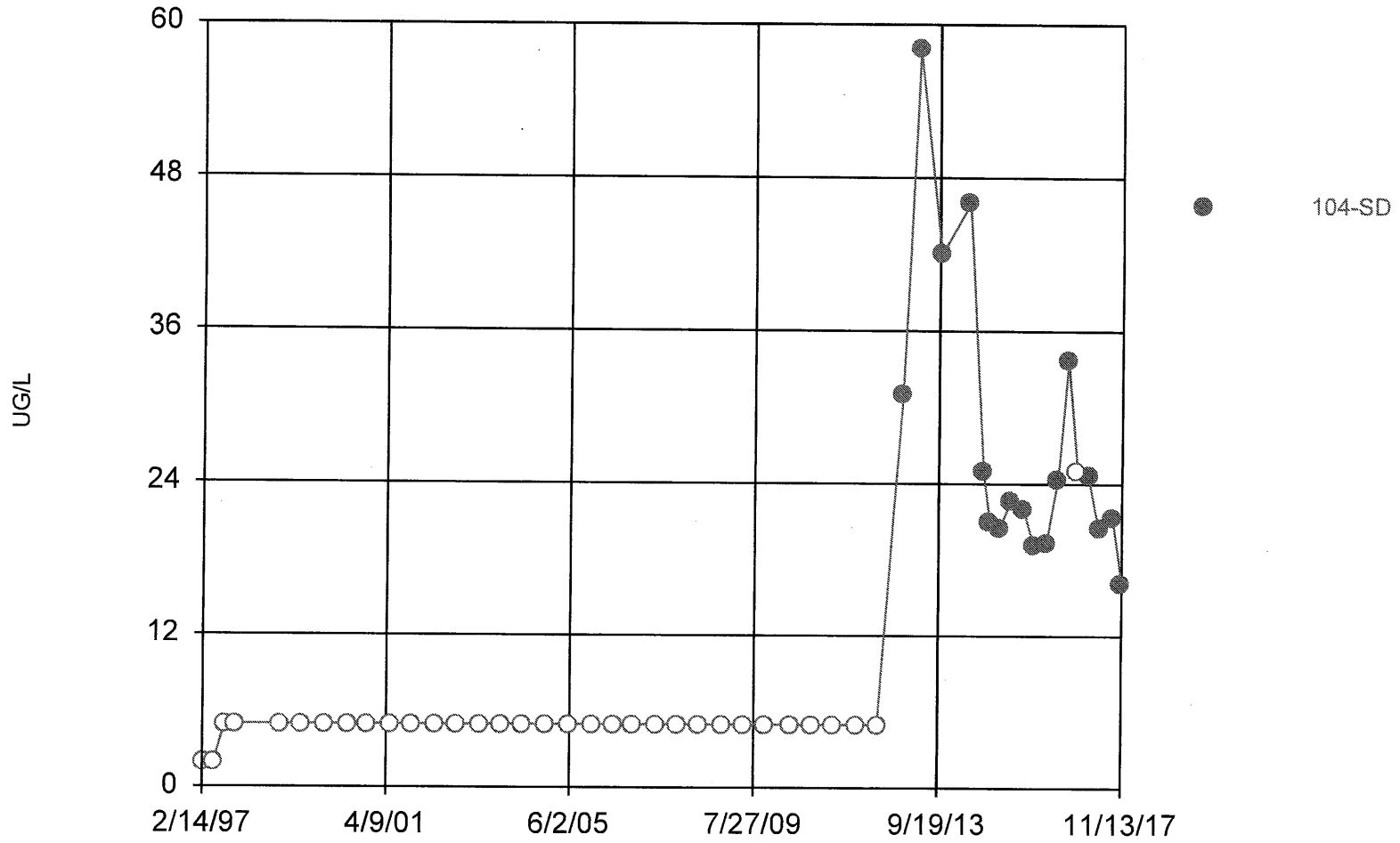


Constituent: Toluene Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes [Total] Analysis Run 12/30/2017 2:46 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX F
LABORATORY ANALYTICAL REPORT

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

December 06, 2017

Environmental Manager
Bridgeton Landfill LLC
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Dear Environmental Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between November 08, 2017 and November 15, 2017. 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. 1,2-Dichlorobenzene added to select samples at client request. cls 12-04-17

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

Sincerely,

Chris Sarkan
chris.sarkan@pacelabs.com
(317)228-3100
Project Manager

Enclosures

cc: Mr. Steve Jett, Jett Environmental Consulting
Ms Dana Sincox, Republic Services, Inc
Mr. Jon Wilkinson, Feezor Engineering, Inc.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

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 #: 2017-124
Texas Certification #: T104704355-17-11
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50183795001	PZ-111-SS	Water	11/06/17 10:13	11/08/17 08:35
50183795002	PZ-111-SD	Water	11/06/17 11:02	11/08/17 08:35
50183795003	PZ-109-SS	Water	11/06/17 12:04	11/08/17 08:35
50183795004	PZ-106-SS	Water	11/06/17 14:07	11/08/17 08:35
50183795005	PZ-106-SD	Water	11/06/17 15:04	11/08/17 08:35
50183795006	PZ-106-SD Dup	Water	11/06/17 15:04	11/08/17 08:35
50183795007	PZ-205-SS	Water	11/07/17 08:44	11/08/17 08:35
50183795008	PZ-100-SD	Water	11/07/17 09:53	11/08/17 08:35
50183795009	PZ-100-SS	Water	11/07/17 10:45	11/08/17 08:35
50183795010	PZ-201A-SS	Water	11/07/17 11:43	11/08/17 08:35
50183795011	Trip Blank	Water	11/07/17 08:00	11/08/17 08:35
50183793001	PZ-209-SD	Water	11/07/17 14:30	11/08/17 08:35
50183793002	PZ-209-SS	Water	11/07/17 15:14	11/08/17 08:35
50184447001	PZ-114-AS	Water	11/13/17 09:38	11/15/17 08:20
50184447002	PZ-115-SS	Water	11/13/17 10:28	11/15/17 08:20
50184447003	PZ-105-SS	Water	11/13/17 11:41	11/15/17 08:20
50184455001	FB @ PZ-104-SD	Water	11/13/17 13:00	11/15/17 08:20
50184455002	PZ-104-SD	Water	11/13/17 13:38	11/15/17 08:20
50184455003	PZ-104-SS	Water	11/13/17 14:37	11/15/17 08:20
50184455004	PZ-104-KS	Water	11/13/17 16:06	11/15/17 08:20
50184455005	PZ-210-SD	Water	11/14/17 09:31	11/15/17 08:20
50184455006	PZ-210-SS	Water	11/14/17 10:16	11/15/17 08:20
50184455007	PZ-211-SD	Water	11/14/17 11:28	11/15/17 08:20
50184455008	PZ-211-SD DUP	Water	11/14/17 11:28	11/15/17 08:20
50184455009	PZ-211-SS	Water	11/14/17 12:17	11/15/17 08:20
50184455010	Trip Blank	Water	11/14/17 08:00	11/15/17 08:20

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50183795001	PZ-111-SS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795002	PZ-111-SD	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795003	PZ-109-SS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795004	PZ-106-SS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	ALA	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795005	**PZ-106-SD**	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795006	**PZ-106-SD Dup**	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795007	**PZ-205-SS**	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795008	PZ-100-SD	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795009	PZ-100-SS	EPA 9056	RID	3
		EPA 6010	FRW	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795010	PZ-201A-SS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	DMT	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	SKK	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50183795011	Trip Blank	EPA 8260	ALA	50

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SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50183793001	PZ-209-SD	EPA 8082	NPW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	DAE	20
		SM 4500-S2-D	TPD	1
50183793002	PZ-209-SS	EPA 8082	NPW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	DAE	20
		SM 4500-S2-D	TPD	1
50184447001	PZ-114-AS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184447002	PZ-115-SS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184447003	PZ-105-SS	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	JGJ	1
		EPA 8260	RSW	50
		SM 2540C	SCM	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184455001	FB @ PZ-104-SD	EPA 8082	BJW	2
		EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	RSW	57
		SM 2540C	SCM	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184455002	PZ-104-SD	EPA 8082	BJW	2
		EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	RSW	57
		SM 2540C	SCM	1
		EPA 410.4	JRB	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184455003	PZ-104-SS	EPA 8082	BJW	2

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SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	RSW	57
		SM 2540C	SCM	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	CSA	1
		SM 5310C	JRB	1
50184455004	PZ-104-KS	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1
50184455005	PZ-210-SD	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1
50184455006	PZ-210-SS	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1
50184455007	PZ-211-SD	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50184455008	PZ-211-SD DUP	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1
50184455009	PZ-211-SS	EPA 8082	BJW	2
		EPA 6010	MJC	4
		EPA 6020	CAW	8
		EPA 8270	TBP	8
		EPA 8260	RSW	20
		SM 4500-S2-D	TPD	1
50184455010	Trip Blank	EPA 8260	RSW	57

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183795001	**PZ-111-SS**					
	Field pH	6.93	Std. Units		11/06/17 10:13	
	Field Temperature	15.7	deg C		11/06/17 10:13	
	Field Specific Conductance	1827	umhos/cm		11/06/17 10:13	
	Field Oxidation Potential	-120	mV		11/06/17 10:13	
	Oxygen, Dissolved	1.65	mg/L		11/06/17 10:13	
	Field Turbidity	6.24	NTU		11/06/17 10:13	
	Elevation Water Level	430.92	ft/msl		11/06/17 10:13	
	Collar Elevation	464.63	ft/msl		11/06/17 10:13	
	Depth to Water	33.71	feet		11/06/17 10:13	
EPA 9056	Chloride	225	mg/L	25.0	11/18/17 20:28	
EPA 9056	Fluoride	0.40	mg/L	0.10	11/16/17 00:15	
EPA 9056	Sulfate	31.1	mg/L	2.5	11/16/17 00:30	
EPA 6010	Barium	376	ug/L	10.0	11/10/17 10:12	
EPA 6010	Boron	302	ug/L	100	11/10/17 10:12	
EPA 6010	Calcium	162000	ug/L	500	11/10/17 10:12	
EPA 6010	Iron	1320	ug/L	50.0	11/10/17 10:12	
EPA 6010	Magnesium	78800	ug/L	500	11/10/17 10:12	
EPA 6010	Manganese	57.0	ug/L	5.0	11/10/17 10:12	
EPA 6010	Nickel	17.4	ug/L	10.0	11/10/17 10:12	
EPA 6010	Sodium	99300	ug/L	1000	11/10/17 10:12	
EPA 6010	Total Hardness by 2340B	728000	ug/L	1000	11/10/17 10:12	
SM 2540C	Total Dissolved Solids	966	mg/L	10.0	11/09/17 12:30	
EPA 410.4	Chemical Oxygen Demand	40.8	mg/L	10.0	11/10/17 14:27	
SM 4500-NH3 G	Nitrogen, Ammonia	0.59	mg/L	0.10	11/17/17 14:42	
SM 5310C	Total Organic Carbon	15.2	mg/L	4.0	11/13/17 23:13	
50183795002	**PZ-111-SD**					
	Field pH	7.14	Std. Units		11/06/17 11:02	
	Field Temperature	16.8	deg C		11/06/17 11:02	
	Field Specific Conductance	839	umhos/cm		11/06/17 11:02	
	Field Oxidation Potential	-69	mV		11/06/17 11:02	
	Oxygen, Dissolved	1.58	mg/L		11/06/17 11:02	
	Field Turbidity	2.75	NTU		11/06/17 11:02	
	Elevation Water Level	434.17	ft/msl		11/06/17 11:02	
	Collar Elevation	466.46	ft/msl		11/06/17 11:02	
	Depth to Water	32.29	feet		11/06/17 11:02	
EPA 9056	Chloride	10.8	mg/L	0.25	11/16/17 00:46	
EPA 9056	Fluoride	2.0	mg/L	0.10	11/16/17 00:46	
EPA 9056	Sulfate	45.5	mg/L	2.5	11/16/17 01:01	
EPA 6010	Barium	107	ug/L	10.0	11/10/17 10:27	
EPA 6010	Calcium	93700	ug/L	500	11/10/17 10:27	
EPA 6010	Iron	935	ug/L	50.0	11/10/17 10:27	
EPA 6010	Magnesium	51400	ug/L	500	11/10/17 10:27	
EPA 6010	Manganese	11.0	ug/L	5.0	11/10/17 10:27	
EPA 6010	Sodium	18200	ug/L	1000	11/10/17 10:27	
EPA 6010	Total Hardness by 2340B	446000	ug/L	1000	11/10/17 10:27	
SM 2540C	Total Dissolved Solids	440	mg/L	10.0	11/09/17 12:30	
SM 5310C	Total Organic Carbon	1.8	mg/L	1.0	11/13/17 23:44	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183795003	**PZ-109-SS**					
	Field pH	7.05	Std. Units		11/06/17 12:04	
	Field Temperature	20.5	deg C		11/06/17 12:04	
	Field Specific Conductance	811	umhos/cm		11/06/17 12:04	
	Field Oxidation Potential	-13	mV		11/06/17 12:04	
	Oxygen, Dissolved	1.30	mg/L		11/06/17 12:04	
	Field Turbidity	3.23	NTU		11/06/17 12:04	
	Elevation Water Level	439.15	ft/msl		11/06/17 12:04	
	Collar Elevation	460.19	ft/msl		11/06/17 12:04	
	Depth to Water	21.04	feet		11/06/17 12:04	
EPA 9056	Chloride	4.2	mg/L	0.25	11/16/17 01:16	
EPA 9056	Fluoride	2.3	mg/L	0.10	11/16/17 01:16	
EPA 9056	Sulfate	22.1	mg/L	0.25	11/16/17 01:16	
EPA 6010	Barium	59.2	ug/L	10.0	11/10/17 10:29	
EPA 6010	Boron	180	ug/L	100	11/10/17 10:29	
EPA 6010	Calcium	94000	ug/L	500	11/10/17 10:29	
EPA 6010	Magnesium	50400	ug/L	500	11/10/17 10:29	
EPA 6010	Sodium	9640	ug/L	1000	11/10/17 10:29	
EPA 6010	Total Hardness by 2340B	442000	ug/L	1000	11/10/17 10:29	
SM 2540C	Total Dissolved Solids	406	mg/L	10.0	11/09/17 12:31	
SM 5310C	Total Organic Carbon	1.7	mg/L	1.0	11/14/17 00:15	
50183795004	**PZ-106-SS**					
	Field pH	6.95	Std. Units		11/06/17 14:07	
	Field Temperature	22.4	deg C		11/06/17 14:07	
	Field Specific Conductance	1071	umhos/cm		11/06/17 14:07	
	Field Oxidation Potential	-107	mV		11/06/17 14:07	
	Oxygen, Dissolved	3.00	mg/L		11/06/17 14:07	
	Field Turbidity	2.87	NTU		11/06/17 14:07	
	Elevation Water Level	448.22	ft/msl		11/06/17 14:07	
	Collar Elevation	462.71	ft/msl		11/06/17 14:07	
	Depth to Water	14.49	feet		11/06/17 14:07	
EPA 9056	Chloride	52.5	mg/L	2.5	11/16/17 02:03	
EPA 9056	Fluoride	1.6	mg/L	0.10	11/16/17 01:47	
EPA 9056	Sulfate	43.0	mg/L	2.5	11/16/17 02:03	
EPA 6010	Barium	195	ug/L	10.0	11/10/17 10:31	
EPA 6010	Calcium	117000	ug/L	500	11/10/17 10:31	
EPA 6010	Iron	2820	ug/L	50.0	11/10/17 10:31	
EPA 6010	Magnesium	54000	ug/L	500	11/10/17 10:31	
EPA 6010	Manganese	16.3	ug/L	5.0	11/10/17 10:31	
EPA 6010	Sodium	36200	ug/L	1000	11/10/17 10:31	
EPA 6010	Total Hardness by 2340B	515000	ug/L	1000	11/10/17 10:31	
SM 2540C	Total Dissolved Solids	757	mg/L	10.0	11/09/17 12:31	
EPA 410.4	Chemical Oxygen Demand	21.4	mg/L	10.0	11/10/17 14:27	
SM 4500-NH3 G	Nitrogen, Ammonia	0.22	mg/L	0.10	11/17/17 14:45	
SM 5310C	Total Organic Carbon	8.7	mg/L	4.0	11/14/17 00:38	
50183795005	**PZ-106-SD**					
	Field pH	7.00	Std. Units		11/06/17 15:04	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183795005	**PZ-106-SD**					
	Field Temperature	22.7	deg C		11/06/17 15:04	
	Field Specific Conductance	1493	umhos/cm		11/06/17 15:04	
	Field Oxidation Potential	-132	mV		11/06/17 15:04	
	Oxygen, Dissolved	6.86	mg/L		11/06/17 15:04	
	Field Turbidity	3.61	NTU		11/06/17 15:04	
	Elevation Water Level	448.38	ft/msl		11/06/17 15:04	
	Collar Elevation	463.36	ft/msl		11/06/17 15:04	
	Depth to Water	14.98	feet		11/06/17 15:04	
EPA 9056	Chloride	143	mg/L	25.0	11/16/17 03:19	
EPA 9056	Fluoride	1.2	mg/L	0.10	11/16/17 02:49	
EPA 9056	Sulfate	55.9	mg/L	2.5	11/16/17 03:04	
EPA 6010	Barium	288	ug/L	10.0	11/10/17 11:47	
EPA 6010	Boron	407	ug/L	100	11/10/17 11:47	
EPA 6010	Calcium	108000	ug/L	500	11/10/17 11:47	
EPA 6010	Iron	754	ug/L	50.0	11/10/17 11:47	
EPA 6010	Magnesium	60600	ug/L	500	11/10/17 11:47	
EPA 6010	Manganese	18.9	ug/L	5.0	11/10/17 11:47	
EPA 6010	Sodium	80200	ug/L	1000	11/10/17 11:47	
EPA 6010	Total Hardness by 2340B	519000	ug/L	1000	11/10/17 11:47	
SM 2540C	Total Dissolved Solids	564	mg/L	10.0	11/09/17 12:32	
EPA 410.4	Chemical Oxygen Demand	42.2	mg/L	10.0	11/10/17 14:27	
SM 4500-NH3 G	Nitrogen, Ammonia	22.2	mg/L	1.0	11/17/17 15:02	
SM 5310C	Total Organic Carbon	15.1	mg/L	10.0	11/14/17 01:00	
50183795006	**PZ-106-SD Dup**					
EPA 9056	Chloride	144	mg/L	25.0	11/16/17 04:06	
EPA 9056	Fluoride	1.2	mg/L	0.10	11/16/17 03:35	
EPA 9056	Sulfate	55.8	mg/L	2.5	11/16/17 03:50	
EPA 6010	Barium	287	ug/L	10.0	11/10/17 10:35	
EPA 6010	Boron	403	ug/L	100	11/10/17 10:35	
EPA 6010	Calcium	108000	ug/L	500	11/10/17 10:35	
EPA 6010	Iron	742	ug/L	50.0	11/10/17 10:35	
EPA 6010	Magnesium	61100	ug/L	500	11/10/17 10:35	
EPA 6010	Manganese	18.8	ug/L	5.0	11/10/17 10:35	
EPA 6010	Sodium	80300	ug/L	1000	11/10/17 10:35	
EPA 6010	Total Hardness by 2340B	521000	ug/L	1000	11/10/17 10:35	
SM 2540C	Total Dissolved Solids	741	mg/L	10.0	11/09/17 15:54	
EPA 410.4	Chemical Oxygen Demand	39.3	mg/L	10.0	11/10/17 14:27	
SM 4500-NH3 G	Nitrogen, Ammonia	22.2	mg/L	1.0	11/17/17 15:04	
SM 5310C	Total Organic Carbon	15.2	mg/L	10.0	11/14/17 01:23	
50183795007	**PZ-205-SS**					
	Field pH	7.04	Std. Units		11/07/17 08:44	
	Field Temperature	18.6	deg C		11/07/17 08:44	
	Field Specific Conductance	886	umhos/cm		11/07/17 08:44	
	Field Oxidation Potential	71	mV		11/07/17 08:44	
	Oxygen, Dissolved	1.72	mg/L		11/07/17 08:44	
	Field Turbidity	4.72	NTU		11/07/17 08:44	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183795007	**PZ-205-SS**					
	Elevation Water Level	433.97	ft/msl		11/07/17 08:44	
	Collar Elevation	465.18	ft/msl		11/07/17 08:44	
	Depth to Water	31.21	feet		11/07/17 08:44	
EPA 9056	Chloride	32.0	mg/L	2.5	11/16/17 04:36	
EPA 9056	Fluoride	0.35	mg/L	0.10	11/16/17 04:21	
EPA 9056	Sulfate	51.5	mg/L	2.5	11/16/17 04:36	
EPA 6010	Barium	143	ug/L	10.0	11/10/17 10:37	
EPA 6010	Calcium	104000	ug/L	500	11/10/17 10:37	
EPA 6010	Iron	52.6	ug/L	50.0	11/10/17 10:37	
EPA 6010	Magnesium	55200	ug/L	500	11/10/17 10:37	
EPA 6010	Sodium	15700	ug/L	1000	11/10/17 10:37	
EPA 6010	Total Hardness by 2340B	487000	ug/L	1000	11/10/17 10:37	
SM 2540C	Total Dissolved Solids	497	mg/L	10.0	11/10/17 14:35	
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	11/14/17 01:54	
50183795008	**PZ-100-SD**					
	Field pH	7.29	Std. Units		11/07/17 09:53	
	Field Temperature	15.7	deg C		11/07/17 09:53	
	Field Specific Conductance	608	umhos/cm		11/07/17 09:53	
	Field Oxidation Potential	-58	mV		11/07/17 09:53	
	Oxygen, Dissolved	0.60	mg/L		11/07/17 09:53	
	Field Turbidity	2.39	NTU		11/07/17 09:53	
	Elevation Water Level	454.30	ft/msl		11/07/17 09:53	
	Collar Elevation	485.72	ft/msl		11/07/17 09:53	
	Depth to Water	31.42	feet		11/07/17 09:53	
EPA 9056	Chloride	1.9	mg/L	0.25	11/16/17 05:53	
EPA 9056	Fluoride	2.0	mg/L	0.10	11/16/17 05:53	
EPA 9056	Sulfate	9.8	mg/L	0.25	11/16/17 05:53	
EPA 6010	Barium	323	ug/L	10.0	11/10/17 10:40	
EPA 6010	Calcium	80200	ug/L	500	11/10/17 10:40	
EPA 6010	Iron	560	ug/L	50.0	11/10/17 10:40	
EPA 6010	Magnesium	34600	ug/L	500	11/10/17 10:40	
EPA 6010	Manganese	51.4	ug/L	5.0	11/10/17 10:40	
EPA 6010	Sodium	6740	ug/L	1000	11/10/17 10:40	
EPA 6010	Total Hardness by 2340B	343000	ug/L	1000	11/10/17 10:40	
SM 2540C	Total Dissolved Solids	296	mg/L	10.0	11/10/17 14:41	
SM 4500-NH3 G	Nitrogen, Ammonia	0.35	mg/L	0.10	11/17/17 14:49	
50183795009	**PZ-100-SS**					
	Field pH	7.16	Std. Units		11/07/17 10:45	
	Field Temperature	16.1	deg C		11/07/17 10:45	
	Field Specific Conductance	786	umhos/cm		11/07/17 10:45	
	Field Oxidation Potential	50	mV		11/07/17 10:45	
	Oxygen, Dissolved	2.21	mg/L		11/07/17 10:45	
	Field Turbidity	3.62	NTU		11/07/17 10:45	
	Elevation Water Level	456.38	ft/msl		11/07/17 10:45	
	Collar Elevation	485.75	ft/msl		11/07/17 10:45	
	Depth to Water	29.37	feet		11/07/17 10:45	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183795009	**PZ-100-SS**					
EPA 9056	Chloride	4.0	mg/L	0.25	11/16/17 04:52	
EPA 9056	Fluoride	0.54	mg/L	0.10	11/16/17 04:52	
EPA 9056	Sulfate	34.4	mg/L	2.5	11/16/17 05:07	
EPA 6010	Barium	67.4	ug/L	10.0	11/10/17 10:46	
EPA 6010	Boron	113	ug/L	100	11/10/17 10:46	
EPA 6010	Calcium	96000	ug/L	500	11/10/17 10:46	
EPA 6010	Magnesium	50500	ug/L	500	11/10/17 10:46	
EPA 6010	Nickel	10.1	ug/L	10.0	11/10/17 10:46	
EPA 6010	Sodium	9920	ug/L	1000	11/10/17 10:46	
EPA 6010	Total Hardness by 2340B	448000	ug/L	1000	11/10/17 10:46	
SM 2540C	Total Dissolved Solids	408	mg/L	10.0	11/10/17 14:41	
SM 5310C	Total Organic Carbon	1.3	mg/L	1.0	11/14/17 03:42	
50183795010	**PZ-201A-SS**					
	Field pH	7.18	Std. Units		11/07/17 11:43	
	Field Temperature	16.7	deg C		11/07/17 11:43	
	Field Specific Conductance	777	umhos/cm		11/07/17 11:43	
	Field Oxidation Potential	36	mV		11/07/17 11:43	
	Oxygen, Dissolved	2.38	mg/L		11/07/17 11:43	
	Field Turbidity	3.84	NTU		11/07/17 11:43	
	Elevation Water Level	467.38	ft/msl		11/07/17 11:43	
	Collar Elevation	480.20	ft/msl		11/07/17 11:43	
	Depth to Water	12.82	feet		11/07/17 11:43	
EPA 9056	Chloride	4.1	mg/L	0.25	11/16/17 06:09	
EPA 9056	Fluoride	0.30	mg/L	0.10	11/16/17 06:09	
EPA 9056	Sulfate	60.6	mg/L	2.5	11/16/17 06:24	
EPA 6010	Barium	129	ug/L	10.0	11/14/17 00:46	
EPA 6010	Calcium	91900	ug/L	500	11/14/17 00:46	
EPA 6010	Magnesium	45700	ug/L	500	11/14/17 00:46	
EPA 6010	Sodium	12300	ug/L	1000	11/14/17 00:46	
EPA 6010	Total Hardness by 2340B	417000	ug/L	1000	11/14/17 00:46	
SM 2540C	Total Dissolved Solids	441	mg/L	10.0	11/10/17 14:41	
EPA 353.2	Nitrogen, NO2 plus NO3	0.38	mg/L	0.10	11/13/17 14:59	
SM 5310C	Total Organic Carbon	1.4	mg/L	1.0	11/14/17 04:36	
50183793001	**PZ-209-SD**					
	Field pH	7.30	Std. Units		11/07/17 14:30	
	Field Temperature	14.1	deg C		11/07/17 14:30	
	Field Specific Conductance	821	umhos/cm		11/07/17 14:30	
	Field Oxidation Potential	-120	mV		11/07/17 14:30	
	Oxygen, Dissolved	0.29	mg/L		11/07/17 14:30	
	Field Turbidity	4.02	NTU		11/07/17 14:30	
	Elevation Water Level	465.38	ft/msl		11/07/17 14:30	
	Collar Elevation	489.58	ft/msl		11/07/17 14:30	
	Depth to Water	24.20	feet		11/07/17 14:30	
EPA 6010	Barium	57.2	ug/L	10.0	11/16/17 12:02	
50183793002	**PZ-209-SS**					
	Field pH	7.38	Std. Units		11/07/17 15:14	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50183793002	**PZ-209-SS**					
	Field Temperature	14.2	deg C		11/07/17 15:14	
	Field Specific Conductance	717	umhos/cm		11/07/17 15:14	
	Field Oxidation Potential	-160	mV		11/07/17 15:14	
	Oxygen, Dissolved	0.24	mg/L		11/07/17 15:14	
	Field Turbidity	5.47	NTU		11/07/17 15:14	
	Elevation Water Level	467.28	ft/msl		11/07/17 15:14	
	Collar Elevation	489.68	ft/msl		11/07/17 15:14	
	Depth to Water	22.40	feet		11/07/17 15:14	
EPA 6010	Barium	91.0	ug/L	10.0	11/16/17 12:17	
EPA 6010	Zinc	47.9	ug/L	20.0	11/16/17 12:17	
50184447001	**PZ-114-AS**					
	Field pH	6.56	Std. Units		11/13/17 09:38	
	Field Temperature	16.2	deg C		11/13/17 09:38	
	Field Specific Conductance	2310	umhos/cm		11/13/17 09:38	
	Field Oxidation Potential	-78	mV		11/13/17 09:38	
	Oxygen, Dissolved	2.79	mg/L		11/13/17 09:38	
	Field Turbidity	3.22	NTU		11/13/17 09:38	
	Elevation Water Level	430.86	ft/msl		11/13/17 09:38	
	Collar Elevation	451.26	ft/msl		11/13/17 09:38	
	Depth to Water	20.40	feet		11/13/17 09:38	
EPA 9056	Chloride	297	mg/L	25.0	11/20/17 03:37	
EPA 9056	Fluoride	0.16	mg/L	0.10	11/20/17 03:20	
EPA 9056	Sulfate	0.33	mg/L	0.25	11/20/17 03:20	
EPA 6010	Barium	1130	ug/L	10.0	11/22/17 01:55	
EPA 6010	Boron	284	ug/L	100	11/22/17 01:55	
EPA 6010	Calcium	218000	ug/L	1000	11/22/17 03:08	
EPA 6010	Iron	70400	ug/L	50.0	11/22/17 01:55	
EPA 6010	Magnesium	62600	ug/L	500	11/22/17 01:55	
EPA 6010	Manganese	3260	ug/L	5.0	11/22/17 01:55	
EPA 6010	Sodium	111000	ug/L	1000	11/22/17 01:55	
EPA 6010	Total Hardness by 2340B	801000	ug/L	2000	11/22/17 03:08	
EPA 6020	Arsenic	73.0	ug/L	5.0	11/28/17 06:52	
EPA 8260	Benzene	19.8	ug/L	5.0	11/21/17 18:17	
EPA 8260	Chlorobenzene	107	ug/L	5.0	11/21/17 18:17	
EPA 8260	1,4-Dichlorobenzene	5.7	ug/L	5.0	11/21/17 18:17	
EPA 8260	Methylene Chloride	5.7	ug/L	5.0	11/21/17 18:17	B,C9,CH,L1
SM 2540C	Total Dissolved Solids	1250	mg/L	10.0	11/16/17 10:44	
EPA 410.4	Chemical Oxygen Demand	48.1	mg/L	10.0	11/17/17 17:56	
EPA 365.1	Phosphorus	2.1	mg/L	0.25	11/22/17 11:24	
SM 4500-NH3 G	Nitrogen, Ammonia	6.4	mg/L	0.10	11/20/17 15:24	
SM 5310C	Total Organic Carbon	14.9	mg/L	10.0	11/22/17 23:30	
50184447002	**PZ-115-SS**					
	Field pH	6.61	Std. Units		11/13/17 10:28	
	Field Temperature	15.8	deg C		11/13/17 10:28	
	Field Specific Conductance	2730	umhos/cm		11/13/17 10:28	
	Field Oxidation Potential	-10	mV		11/13/17 10:28	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184447002	**PZ-115-SS**					
	Oxygen, Dissolved	0.20	mg/L		11/13/17 10:28	
	Field Turbidity	4.23	NTU		11/13/17 10:28	
	Elevation Water Level	436.83	ft/msl		11/13/17 10:28	
	Collar Elevation	452.27	ft/msl		11/13/17 10:28	
	Depth to Water	15.44	feet		11/13/17 10:28	
EPA 9056	Chloride	487	mg/L	25.0	11/20/17 04:11	
EPA 9056	Fluoride	0.38	mg/L	0.10	11/20/17 03:54	
EPA 9056	Sulfate	4.6	mg/L	0.25	11/20/17 03:54	
EPA 6010	Barium	488	ug/L	10.0	11/22/17 01:58	
EPA 6010	Boron	453	ug/L	100	11/22/17 01:58	
EPA 6010	Calcium	214000	ug/L	1000	11/22/17 03:11	
EPA 6010	Cobalt	27.2	ug/L	5.0	11/22/17 01:58	
EPA 6010	Iron	2940	ug/L	50.0	11/22/17 01:58	
EPA 6010	Magnesium	101000	ug/L	500	11/22/17 01:58	
EPA 6010	Manganese	74.6	ug/L	5.0	11/22/17 01:58	
EPA 6010	Nickel	68.4	ug/L	10.0	11/22/17 01:58	
EPA 6010	Sodium	176000	ug/L	1000	11/22/17 01:58	
EPA 6010	Total Hardness by 2340B	950000	ug/L	2000	11/22/17 03:11	
EPA 6020	Arsenic	5.8	ug/L	5.0	11/28/17 06:56	
EPA 8260	Methylene Chloride	6.4	ug/L	5.0	11/21/17 18:49	B,C9,CH,L1
SM 2540C	Total Dissolved Solids	1470	mg/L	10.0	11/16/17 10:44	
EPA 410.4	Chemical Oxygen Demand	35.0	mg/L	10.0	11/17/17 17:56	
EPA 365.1	Phosphorus	0.24	mg/L	0.050	11/22/17 10:22	
SM 4500-NH3 G	Nitrogen, Ammonia	1.2	mg/L	0.10	11/20/17 15:25	
SM 5310C	Total Organic Carbon	12.1	mg/L	10.0	11/22/17 23:53	
50184447003	**PZ-105-SS**					
	Field pH	7.02	Std. Units		11/13/17 11:41	
	Field Temperature	21.0	deg C		11/13/17 11:41	
	Field Specific Conductance	1067	umhos/cm		11/13/17 11:41	
	Field Oxidation Potential	-28	mV		11/13/17 11:41	
	Oxygen, Dissolved	1.55	mg/L		11/13/17 11:41	
	Field Turbidity	4.65	NTU		11/13/17 11:41	
	Elevation Water Level	459.66	ft/msl		11/13/17 11:41	
	Collar Elevation	483.51	ft/msl		11/13/17 11:41	
	Depth to Water	23.85	feet		11/13/17 11:41	
EPA 9056	Chloride	75.5	mg/L	2.5	11/20/17 04:44	
EPA 9056	Fluoride	0.56	mg/L	0.10	11/20/17 04:27	
EPA 9056	Sulfate	45.7	mg/L	2.5	11/20/17 04:44	
EPA 6010	Barium	170	ug/L	10.0	11/22/17 02:00	
EPA 6010	Calcium	100000	ug/L	500	11/22/17 02:00	
EPA 6010	Iron	1480	ug/L	50.0	11/22/17 02:00	
EPA 6010	Magnesium	53400	ug/L	500	11/22/17 02:00	
EPA 6010	Manganese	62.1	ug/L	5.0	11/22/17 02:00	
EPA 6010	Sodium	41200	ug/L	1000	11/22/17 02:00	
EPA 6010	Total Hardness by 2340B	471000	ug/L	1000	11/22/17 02:00	
EPA 8260	Methylene Chloride	8.7	ug/L	5.0	11/22/17 17:33	B,C9
SM 2540C	Total Dissolved Solids	589	mg/L	10.0	11/16/17 10:44	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184447003	**PZ-105-SS**					
EPA 410.4	Chemical Oxygen Demand	10.4	mg/L	10.0	11/17/17 17:56	
SM 5310C	Total Organic Carbon	3.8	mg/L	1.0	11/23/17 00:16	
50184455001	**FB @ PZ-104-SD**					
EPA 6010	Calcium	2010	ug/L	500	11/27/17 12:53	
EPA 6010	Iron	284	ug/L	50.0	11/27/17 12:53	
EPA 6010	Magnesium	944	ug/L	500	11/27/17 12:53	
EPA 6010	Manganese	6.8	ug/L	5.0	11/27/17 12:53	
EPA 6010	Total Hardness by 2340B	8920	ug/L	1000	11/27/17 12:53	
50184455002	**PZ-104-SD**					
	Field pH	6.76	Std. Units		11/13/17 13:38	
	Field Temperature	26.0	deg C		11/13/17 13:38	
	Field Specific Conductance	2010	umhos/cm		11/13/17 13:38	
	Field Oxidation Potential	-114	mV		11/13/17 13:38	
	Oxygen, Dissolved	0.18	mg/L		11/13/17 13:38	
	Field Turbidity	3.72	NTU		11/13/17 13:38	
	Elevation Water Level	461.73	ft/msl		11/13/17 13:38	
	Collar Elevation	483.51	ft/msl		11/13/17 13:38	
	Depth to Water	21.78	feet		11/13/17 13:38	
EPA 9056	Chloride	211	mg/L	25.0	11/21/17 14:05	
EPA 9056	Fluoride	0.90	mg/L	0.10	11/20/17 01:23	
EPA 9056	Sulfate	1.3	mg/L	0.25	11/20/17 01:23	
EPA 6010	Barium	563	ug/L	10.0	11/27/17 12:55	
EPA 6010	Boron	817	ug/L	100	11/27/17 12:55	
EPA 6010	Calcium	93200	ug/L	500	11/27/17 12:55	
EPA 6010	Iron	8370	ug/L	50.0	11/27/17 12:55	
EPA 6010	Magnesium	56800	ug/L	500	11/27/17 12:55	
EPA 6010	Manganese	118	ug/L	5.0	11/27/17 12:55	
EPA 6010	Nickel	53.0	ug/L	10.0	11/27/17 12:55	
EPA 6010	Sodium	134000	ug/L	1000	11/27/17 12:55	
EPA 6010	Total Hardness by 2340B	466000	ug/L	1000	11/27/17 12:55	
EPA 6020	Arsenic	16.5	ug/L	5.0	11/27/17 16:58	
EPA 6020	Chromium	9.8	ug/L	5.0	11/27/17 16:58	
EPA 8260	Benzene	320	ug/L	50.0	11/22/17 19:41	
EPA 8260	Tetrahydrofuran	956	ug/L	500	11/22/17 19:41	N2
EPA 8260	Xylene (Total)	16.2	ug/L	5.0	11/22/17 19:09	
SM 2540C	Total Dissolved Solids	846	mg/L	10.0	11/16/17 10:45	
EPA 410.4	Chemical Oxygen Demand	155	mg/L	10.0	11/22/17 13:50	
EPA 365.1	Phosphorus	0.13	mg/L	0.050	11/22/17 10:25	
SM 4500-NH3 G	Nitrogen, Ammonia	34.9	mg/L	1.0	11/20/17 16:29	
SM 5310C	Total Organic Carbon	42.9	mg/L	40.0	11/23/17 01:55	
50184455003	**PZ-104-SS**					
	Field pH	6.57	Std. Units		11/13/17 14:37	
	Field Temperature	26.3	deg C		11/13/17 14:37	
	Field Specific Conductance	801	umhos/cm		11/13/17 14:37	
	Field Oxidation Potential	-193	mV		11/13/17 14:37	
	Oxygen, Dissolved	0.13	mg/L		11/13/17 14:37	

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SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184455003	**PZ-104-SS**					
	Field Turbidity	3.30	NTU		11/13/17 14:37	
	Elevation Water Level	462.96	ft/msl		11/13/17 14:37	
	Collar Elevation	483.45	ft/msl		11/13/17 14:37	
	Depth to Water	20.49	feet		11/13/17 14:37	
EPA 9056	Chloride	4.2	mg/L	0.25	11/20/17 02:30	
EPA 9056	Fluoride	0.69	mg/L	0.10	11/20/17 02:30	
EPA 9056	Sulfate	24.7	mg/L	0.25	11/20/17 02:30	
EPA 6010	Barium	103	ug/L	10.0	11/27/17 13:03	
EPA 6010	Boron	135	ug/L	100	11/27/17 13:03	
EPA 6010	Calcium	81200	ug/L	500	11/27/17 13:03	
EPA 6010	Iron	155	ug/L	50.0	11/27/17 13:03	
EPA 6010	Magnesium	48500	ug/L	500	11/27/17 13:03	
EPA 6010	Manganese	25.7	ug/L	5.0	11/27/17 13:03	
EPA 6010	Sodium	14800	ug/L	1000	11/27/17 13:03	
EPA 6010	Total Hardness by 2340B	403000	ug/L	1000	11/27/17 13:03	
EPA 8260	Benzene	14.7	ug/L	5.0	11/22/17 20:13	
EPA 8260	Methyl-tert-butyl ether	7.9	ug/L	5.0	11/22/17 20:13	
SM 2540C	Total Dissolved Solids	389	mg/L	10.0	11/16/17 10:46	
EPA 410.4	Chemical Oxygen Demand	16.5	mg/L	10.0	11/21/17 17:00	
50184455004	**PZ-104-KS**					
	Field pH	7.14	Std. Units		11/13/17 16:06	
	Field Temperature	23.8	deg C		11/13/17 16:06	
	Field Specific Conductance	817	umhos/cm		11/13/17 16:06	
	Field Oxidation Potential	-233	mV		11/13/17 16:06	
	Oxygen, Dissolved	0.31	mg/L		11/13/17 16:06	
	Field Turbidity	6.03	NTU		11/13/17 16:06	
	Elevation Water Level	465.99	ft/msl		11/13/17 16:06	
	Collar Elevation	483.95	ft/msl		11/13/17 16:06	
	Depth to Water	17.96	feet		11/13/17 16:06	
EPA 6010	Barium	96.4	ug/L	10.0	11/27/17 13:05	
EPA 8260	Benzene	6.5	ug/L	5.0	11/22/17 20:45	
50184455005	**PZ-210-SD**					
	Field pH	7.19	Std. Units		11/14/17 09:31	
	Field Temperature	15.7	deg C		11/14/17 09:31	
	Field Specific Conductance	939	umhos/cm		11/14/17 09:31	
	Field Oxidation Potential	-41	mV		11/14/17 09:31	
	Oxygen, Dissolved	0.32	mg/L		11/14/17 09:31	
	Field Turbidity	4.53	NTU		11/14/17 09:31	
	Elevation Water Level	460.65	ft/msl		11/14/17 09:31	
	Collar Elevation	487.00	ft/msl		11/14/17 09:31	
	Depth to Water	26.35	feet		11/14/17 09:31	
EPA 6010	Barium	69.4	ug/L	10.0	11/27/17 13:07	
50184455006	**PZ-210-SS**					
	Field pH	7.20	Std. Units		11/14/17 10:16	
	Field Temperature	15.7	deg C		11/14/17 10:16	
	Field Specific Conductance	823	umhos/cm		11/14/17 10:16	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50184455006	**PZ-210-SS**					
	Field Oxidation Potential	-34	mV		11/14/17 10:16	
	Oxygen, Dissolved	0.30	mg/L		11/14/17 10:16	
	Field Turbidity	4.81	NTU		11/14/17 10:16	
	Elevation Water Level	461.27	ft/msl		11/14/17 10:16	
	Collar Elevation	486.90	ft/msl		11/14/17 10:16	
	Depth to Water	25.63	feet		11/14/17 10:16	
EPA 6010	Barium	88.3	ug/L	10.0	11/27/17 13:09	
50184455007	**PZ-211-SD**					
	Field pH	7.27	Std. Units		11/14/17 11:28	
	Field Temperature	14.7	deg C		11/14/17 11:28	
	Field Specific Conductance	905	umhos/cm		11/14/17 11:28	
	Field Oxidation Potential	-183	mV		11/14/17 11:28	
	Oxygen, Dissolved	0.22	mg/L		11/14/17 11:28	
	Field Turbidity	5.13	NTU		11/14/17 11:28	
	Elevation Water Level	464.57	ft/msl		11/14/17 11:28	
	Collar Elevation	487.46	ft/msl		11/14/17 11:28	
	Depth to Water	22.89	feet		11/14/17 11:28	
EPA 6010	Barium	42.0	ug/L	10.0	11/27/17 13:11	
50184455008	**PZ-211-SD DUP**					
EPA 6010	Barium	42.4	ug/L	10.0	11/27/17 13:13	
50184455009	**PZ-211-SS**					
	Field pH	7.23	Std. Units		11/14/17 12:17	
	Field Temperature	14.8	deg C		11/14/17 12:17	
	Field Specific Conductance	697	umhos/cm		11/14/17 12:17	
	Field Oxidation Potential	-138	mV		11/14/17 12:17	
	Oxygen, Dissolved	0.27	mg/L		11/14/17 12:17	
	Field Turbidity	3.91	NTU		11/14/17 12:17	
	Elevation Water Level	466.32	ft/msl		11/14/17 12:17	
	Collar Elevation	487.41	ft/msl		11/14/17 12:17	
	Depth to Water	21.09	feet		11/14/17 12:17	
EPA 6010	Barium	62.7	ug/L	10.0	11/27/17 13:15	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SS **Lab ID: 50183795001** Collected: 11/06/17 10:13 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.93**	Std. Units		1		11/06/17 10:13		
Field Temperature	**15.7**	deg C		1		11/06/17 10:13		
Field Specific Conductance	**1827**	umhos/cm		1		11/06/17 10:13		
Field Oxidation Potential	**-120**	mV		1		11/06/17 10:13		
Oxygen, Dissolved	**1.65**	mg/L		1		11/06/17 10:13	7782-44-7	
Field Turbidity	**6.24**	NTU		1		11/06/17 10:13		
Elevation Water Level	**430.92**	ft/msl		1		11/06/17 10:13		
Collar Elevation	**464.63**	ft/msl		1		11/06/17 10:13		
Depth to Water	**33.71**	feet		1		11/06/17 10:13		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**225**	mg/L	25.0	100		11/18/17 20:28	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	1		11/16/17 00:15	16984-48-8	
Sulfate	**31.1**	mg/L	2.5	10		11/16/17 00:30	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**376**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:12	7440-39-3	
Boron	**302**	ug/L	100	1	11/09/17 10:57	11/10/17 10:12	7440-42-8	
Calcium	**162000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:12	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:12	7440-48-4	
Iron	**1320**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:12	7439-89-6	
Magnesium	**78800**	ug/L	500	1	11/09/17 10:57	11/10/17 10:12	7439-95-4	
Manganese	**57.0**	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:12	7439-96-5	
Nickel	**17.4**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:12	7440-02-0	
Sodium	**99300**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:12	7440-23-5	
Total Hardness by 2340B	**728000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:12		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:12	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/13/17 23:38	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/13/17 23:38	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:38	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/13/17 23:38	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/13/17 23:38	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:03	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 05:12	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SS **Lab ID: 50183795001** Collected: 11/06/17 10:13 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		11/15/17 05:12	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 05:12	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 05:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 05:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 05:12	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 05:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 05:12	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 05:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 05:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 05:12	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 05:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 05:12	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 05:12	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 05:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 05:12	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 05:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 05:12	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 05:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 05:12	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 05:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 05:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 05:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 05:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 05:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 05:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 05:12	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 05:12	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 05:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 05:12	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 05:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 05:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 05:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 05:12	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 05:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 05:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 05:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 05:12	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 05:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 05:12	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 05:12	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SS **Lab ID: 50183795001** Collected: 11/06/17 10:13 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	104	%.	86-116	1		11/15/17 05:12	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/15/17 05:12	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/15/17 05:12	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**966**	mg/L	10.0	1		11/09/17 12:30		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**40.8**	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.50	5		11/13/17 15:24		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:53	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.59**	mg/L	0.10	1		11/17/17 14:42	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**15.2**	mg/L	4.0	4		11/13/17 23:13	7440-44-0	

Sample: PZ-111-SD **Lab ID: 50183795002** Collected: 11/06/17 11:02 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.14**	Std. Units		1		11/06/17 11:02		
Field Temperature	**16.8**	deg C		1		11/06/17 11:02		
Field Specific Conductance	**839**	umhos/cm		1		11/06/17 11:02		
Field Oxidation Potential	**-69**	mV		1		11/06/17 11:02		
Oxygen, Dissolved	**1.58**	mg/L		1		11/06/17 11:02	7782-44-7	
Field Turbidity	**2.75**	NTU		1		11/06/17 11:02		
Elevation Water Level	**434.17**	ft/msl		1		11/06/17 11:02		
Collar Elevation	**466.46**	ft/msl		1		11/06/17 11:02		
Depth to Water	**32.29**	feet		1		11/06/17 11:02		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**10.8**	mg/L	0.25	1		11/16/17 00:46	16887-00-6	
Fluoride	**2.0**	mg/L	0.10	1		11/16/17 00:46	16984-48-8	
Sulfate	**45.5**	mg/L	2.5	10		11/16/17 01:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SD **Lab ID: 50183795002** Collected: 11/06/17 11:02 Received: 11/08/17 08:35 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	**107**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:27	7440-39-3	
Boron	ND	ug/L	100	1	11/09/17 10:57	11/10/17 10:27	7440-42-8	
Calcium	**93700**	ug/L	500	1	11/09/17 10:57	11/10/17 10:27	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:27	7440-48-4	
Iron	**935**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:27	7439-89-6	
Magnesium	**51400**	ug/L	500	1	11/09/17 10:57	11/10/17 10:27	7439-95-4	
Manganese	**11.0**	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:27	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:27	7440-02-0	
Sodium	**18200**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:27	7440-23-5	
Total Hardness by 2340B	**446000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:27		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:27	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/13/17 23:51	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/13/17 23:51	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:19	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:51	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:19	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/13/17 23:51	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:05	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 07:05	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 07:05	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 07:05	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 07:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 07:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 07:05	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 07:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 07:05	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 07:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 07:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 07:05	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 07:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 07:05	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 07:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 07:05	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 07:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 07:05	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SD **Lab ID: 50183795002** Collected: 11/06/17 11:02 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		11/15/17 07:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 07:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 07:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 07:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 07:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 07:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 07:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 07:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 07:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 07:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 07:05	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 07:05	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 07:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 07:05	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 07:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 07:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 07:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 07:05	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 07:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 07:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 07:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 07:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 07:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 07:05	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 07:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 07:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 07:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	86-116	1		11/15/17 07:05	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	84-113	1		11/15/17 07:05	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/15/17 07:05	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**440**	mg/L	10.0	1		11/09/17 12:30		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.50	5		11/13/17 15:31		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:54	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-111-SD **Lab ID: 50183795002** Collected: 11/06/17 11:02 Received: 11/08/17 08:35 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		11/17/17 14:43	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		11/13/17 23:44	7440-44-0	

Sample: PZ-109-SS **Lab ID: 50183795003** Collected: 11/06/17 12:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.05**	Std. Units		1		11/06/17 12:04		
Field Temperature	**20.5**	deg C		1		11/06/17 12:04		
Field Specific Conductance	**811**	umhos/cm		1		11/06/17 12:04		
Field Oxidation Potential	**-13**	mV		1		11/06/17 12:04		
Oxygen, Dissolved	**1.30**	mg/L		1		11/06/17 12:04	7782-44-7	
Field Turbidity	**3.23**	NTU		1		11/06/17 12:04		
Elevation Water Level	**439.15**	ft/msl		1		11/06/17 12:04		
Collar Elevation	**460.19**	ft/msl		1		11/06/17 12:04		
Depth to Water	**21.04**	feet		1		11/06/17 12:04		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.2**	mg/L	0.25	1		11/16/17 01:16	16887-00-6	
Fluoride	**2.3**	mg/L	0.10	1		11/16/17 01:16	16984-48-8	
Sulfate	**22.1**	mg/L	0.25	1		11/16/17 01:16	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**59.2**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:29	7440-39-3	
Boron	**180**	ug/L	100	1	11/09/17 10:57	11/10/17 10:29	7440-42-8	
Calcium	**94000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:29	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:29	7440-48-4	
Iron	ND	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:29	7439-89-6	
Magnesium	**50400**	ug/L	500	1	11/09/17 10:57	11/10/17 10:29	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:29	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:29	7440-02-0	
Sodium	**9640**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:29	7440-23-5	
Total Hardness by 2340B	**442000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:29		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:29	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/13/17 23:56	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/13/17 23:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7440-50-8	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-109-SS **Lab ID: 50183795003** Collected: 11/06/17 12:04 Received: 11/08/17 08:35 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	11/13/17 08:27	11/14/17 23:24	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/13/17 23:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:24	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/13/17 23:56	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:07	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 07:43	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 07:43	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 07:43	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 07:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 07:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 07:43	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 07:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 07:43	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 07:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 07:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 07:43	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 07:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 07:43	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 07:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 07:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 07:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 07:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 07:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 07:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 07:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 07:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 07:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 07:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 07:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 07:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 07:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 07:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 07:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 07:43	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 07:43	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 07:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 07:43	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 07:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 07:43	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-109-SS **Lab ID: 50183795003** Collected: 11/06/17 12:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 07:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 07:43	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 07:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 07:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 07:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 07:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 07:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 07:43	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 07:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 07:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 07:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/15/17 07:43	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	84-113	1		11/15/17 07:43	460-00-4	
Toluene-d8 (S)	99	%.	86-111	1		11/15/17 07:43	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**406**	mg/L	10.0	1		11/09/17 12:31		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/13/17 14:43		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:55	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/17/17 14:44	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		11/14/17 00:15	7440-44-0	

Sample: PZ-106-SS **Lab ID: 50183795004** Collected: 11/06/17 14:07 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.95**	Std. Units		1		11/06/17 14:07		
Field Temperature	**22.4**	deg C		1		11/06/17 14:07		
Field Specific Conductance	**1071**	umhos/cm		1		11/06/17 14:07		
Field Oxidation Potential	**-107**	mV		1		11/06/17 14:07		
Oxygen, Dissolved	**3.00**	mg/L		1		11/06/17 14:07	7782-44-7	
Field Turbidity	**2.87**	NTU		1		11/06/17 14:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SS **Lab ID: 50183795004** Collected: 11/06/17 14:07 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Elevation Water Level	**448.22**	ft/msl		1		11/06/17 14:07		
Collar Elevation	**462.71**	ft/msl		1		11/06/17 14:07		
Depth to Water	**14.49**	feet		1		11/06/17 14:07		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**52.5**	mg/L	2.5	10		11/16/17 02:03	16887-00-6	
Fluoride	**1.6**	mg/L	0.10	1		11/16/17 01:47	16984-48-8	
Sulfate	**43.0**	mg/L	2.5	10		11/16/17 02:03	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**195**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:31	7440-39-3	
Boron	ND	ug/L	100	1	11/09/17 10:57	11/10/17 10:31	7440-42-8	
Calcium	**117000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:31	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:31	7440-48-4	
Iron	**2820**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:31	7439-89-6	
Magnesium	**54000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:31	7439-95-4	
Manganese	**16.3**	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:31	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:31	7440-02-0	
Sodium	**36200**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:31	7440-23-5	
Total Hardness by 2340B	**515000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:31		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:31	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:00	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:00	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:00	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:09	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 08:21	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 08:21	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 08:21	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 08:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 08:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 08:21	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 08:21	74-83-9	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SS **Lab ID: 50183795004** Collected: 11/06/17 14:07 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 08:21	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 08:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 08:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 08:21	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 08:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 08:21	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 08:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 08:21	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 08:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 08:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 08:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 08:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 08:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 08:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 08:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 08:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 08:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 08:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 08:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 08:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 08:21	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 08:21	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 08:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 08:21	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 08:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 08:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 08:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 08:21	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 08:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 08:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 08:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 08:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 08:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 08:21	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 08:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 08:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 08:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/15/17 08:21	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/15/17 08:21	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/15/17 08:21	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**757**	mg/L	10.0	1		11/09/17 12:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SS **Lab ID: 50183795004** Collected: 11/06/17 14:07 Received: 11/08/17 08:35 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	**21.4**	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	1.0	10		11/13/17 15:34		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:57	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.22**	mg/L	0.10	1		11/17/17 14:45	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**8.7**	mg/L	4.0	4		11/14/17 00:38	7440-44-0	

Sample: PZ-106-SD **Lab ID: 50183795005** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.00**	Std. Units		1		11/06/17 15:04		
Field Temperature	**22.7**	deg C		1		11/06/17 15:04		
Field Specific Conductance	**1493**	umhos/cm		1		11/06/17 15:04		
Field Oxidation Potential	**-132**	mV		1		11/06/17 15:04		
Oxygen, Dissolved	**6.86**	mg/L		1		11/06/17 15:04	7782-44-7	
Field Turbidity	**3.61**	NTU		1		11/06/17 15:04		
Elevation Water Level	**448.38**	ft/msl		1		11/06/17 15:04		
Collar Elevation	**463.36**	ft/msl		1		11/06/17 15:04		
Depth to Water	**14.98**	feet		1		11/06/17 15:04		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**143**	mg/L	25.0	100		11/16/17 03:19	16887-00-6	
Fluoride	**1.2**	mg/L	0.10	1		11/16/17 02:49	16984-48-8	
Sulfate	**55.9**	mg/L	2.5	10		11/16/17 03:04	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**288**	ug/L	10.0	1	11/09/17 10:57	11/10/17 11:47	7440-39-3	
Boron	**407**	ug/L	100	1	11/09/17 10:57	11/10/17 11:47	7440-42-8	
Calcium	**108000**	ug/L	500	1	11/09/17 10:57	11/10/17 11:47	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 11:47	7440-48-4	
Iron	**754**	ug/L	50.0	1	11/09/17 10:57	11/10/17 11:47	7439-89-6	
Magnesium	**60600**	ug/L	500	1	11/09/17 10:57	11/10/17 11:47	7439-95-4	
Manganese	**18.9**	ug/L	5.0	1	11/09/17 10:57	11/10/17 11:47	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 11:47	7440-02-0	
Sodium	**80200**	ug/L	1000	1	11/09/17 10:57	11/10/17 11:47	7440-23-5	
Total Hardness by 2340B	**519000**	ug/L	1000	1	11/09/17 10:57	11/10/17 11:47		

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SD **Lab ID: 50183795005** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 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	11/09/17 10:57	11/10/17 11:47	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:33	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:33	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:05	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:11	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 08:59	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 08:59	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 08:59	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 08:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 08:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 08:59	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 08:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 08:59	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 08:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 08:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 08:59	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 08:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 08:59	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 08:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 08:59	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 08:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 08:59	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 08:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 08:59	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 08:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 08:59	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 08:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 08:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 08:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 08:59	78-87-5	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SD **Lab ID: 50183795005** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 08:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 08:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 08:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 08:59	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 08:59	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 08:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 08:59	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 08:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 08:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 08:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 08:59	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 08:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 08:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 08:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 08:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 08:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 08:59	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 08:59	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 08:59	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 08:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	86-116	1		11/15/17 08:59	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	84-113	1		11/15/17 08:59	460-00-4	
Toluene-d8 (S)	95	%.	86-111	1		11/15/17 08:59	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**564**	mg/L	10.0	1		11/09/17 12:32		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**42.2**	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.50	5		11/13/17 15:41		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:57	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**22.2**	mg/L	1.0	10		11/17/17 15:02	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**15.1**	mg/L	10.0	10		11/14/17 01:00	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SD Dup **Lab ID: 50183795006** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**144**	mg/L	25.0	100		11/16/17 04:06	16887-00-6	
Fluoride	**1.2**	mg/L	0.10	1		11/16/17 03:35	16984-48-8	
Sulfate	**55.8**	mg/L	2.5	10		11/16/17 03:50	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**287**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:35	7440-39-3	
Boron	**403**	ug/L	100	1	11/09/17 10:57	11/10/17 10:35	7440-42-8	
Calcium	**108000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:35	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:35	7440-48-4	
Iron	**742**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:35	7439-89-6	
Magnesium	**61100**	ug/L	500	1	11/09/17 10:57	11/10/17 10:35	7439-95-4	
Manganese	**18.8**	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:35	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:35	7440-02-0	
Sodium	**80300**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:35	7440-23-5	
Total Hardness by 2340B	**521000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:35		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:35	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:09	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:09	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:37	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:09	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:37	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:09	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:13	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 09:37	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 09:37	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 09:37	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 09:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 09:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 09:37	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 09:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 09:37	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 09:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 09:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 09:37	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 09:37	75-00-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SD Dup **Lab ID: 50183795006** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	5.0	1		11/15/17 09:37	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 09:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 09:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 09:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 09:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 09:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 09:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 09:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 09:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 09:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 09:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 09:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 09:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 09:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 09:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 09:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 09:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 09:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 09:37	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 09:37	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 09:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 09:37	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 09:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 09:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 09:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 09:37	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 09:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 09:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 09:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 09:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 09:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 09:37	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 09:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 09:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 09:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/15/17 09:37	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/15/17 09:37	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/15/17 09:37	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**741**	mg/L	10.0	1		11/09/17 15:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**39.3**	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-106-SD Dup **Lab ID: 50183795006** Collected: 11/06/17 15:04 Received: 11/08/17 08:35 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	0.50	5		11/13/17 15:45		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:58	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**22.2**	mg/L	1.0	10		11/17/17 15:04	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**15.2**	mg/L	10.0	10		11/14/17 01:23	7440-44-0	

Sample: PZ-205-SS **Lab ID: 50183795007** Collected: 11/07/17 08:44 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.04**	Std. Units		1		11/07/17 08:44		
Field Temperature	**18.6**	deg C		1		11/07/17 08:44		
Field Specific Conductance	**886**	umhos/cm		1		11/07/17 08:44		
Field Oxidation Potential	**71**	mV		1		11/07/17 08:44		
Oxygen, Dissolved	**1.72**	mg/L		1		11/07/17 08:44	7782-44-7	
Field Turbidity	**4.72**	NTU		1		11/07/17 08:44		
Elevation Water Level	**433.97**	ft/msl		1		11/07/17 08:44		
Collar Elevation	**465.18**	ft/msl		1		11/07/17 08:44		
Depth to Water	**31.21**	feet		1		11/07/17 08:44		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**32.0**	mg/L	2.5	10		11/16/17 04:36	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	1		11/16/17 04:21	16984-48-8	
Sulfate	**51.5**	mg/L	2.5	10		11/16/17 04:36	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**143**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:37	7440-39-3	
Boron	ND	ug/L	100	1	11/09/17 10:57	11/10/17 10:37	7440-42-8	
Calcium	**104000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:37	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:37	7440-48-4	
Iron	**52.6**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:37	7439-89-6	
Magnesium	**55200**	ug/L	500	1	11/09/17 10:57	11/10/17 10:37	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:37	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:37	7440-02-0	
Sodium	**15700**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:37	7440-23-5	
Total Hardness by 2340B	**487000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:37		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:37	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-205-SS **Lab ID: 50183795007** Collected: 11/07/17 08:44 Received: 11/08/17 08:35 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							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:14	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:42	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:14	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:42	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:14	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:22	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 10:14	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 10:14	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 10:14	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 10:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 10:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 10:14	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 10:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 10:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 10:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 10:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 10:14	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 10:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 10:14	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 10:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 10:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 10:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 10:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 10:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 10:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 10:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 10:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 10:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 10:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 10:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 10:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 10:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 10:14	100-41-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-205-SS **Lab ID: 50183795007** Collected: 11/07/17 08:44 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	10.0	1		11/15/17 10:14	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 10:14	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 10:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 10:14	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 10:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 10:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 10:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 10:14	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 10:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 10:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 10:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 10:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 10:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 10:14	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 10:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 10:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 10:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/15/17 10:14	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/15/17 10:14	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/15/17 10:14	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**497**	mg/L	10.0	1		11/10/17 14:35		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/13/17 14:54		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:58	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/17/17 15:05	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	1.0	1		11/14/17 01:54	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SD **Lab ID: 50183795008** Collected: 11/07/17 09:53 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.29**	Std. Units		1		11/07/17 09:53		
Field Temperature	**15.7**	deg C		1		11/07/17 09:53		
Field Specific Conductance	**608**	umhos/cm		1		11/07/17 09:53		
Field Oxidation Potential	**-58**	mV		1		11/07/17 09:53		
Oxygen, Dissolved	**0.60**	mg/L		1		11/07/17 09:53	7782-44-7	
Field Turbidity	**2.39**	NTU		1		11/07/17 09:53		
Elevation Water Level	**454.30**	ft/msl		1		11/07/17 09:53		
Collar Elevation	**485.72**	ft/msl		1		11/07/17 09:53		
Depth to Water	**31.42**	feet		1		11/07/17 09:53		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.9**	mg/L	0.25	1		11/16/17 05:53	16887-00-6	
Fluoride	**2.0**	mg/L	0.10	1		11/16/17 05:53	16984-48-8	
Sulfate	**9.8**	mg/L	0.25	1		11/16/17 05:53	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**323**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:40	7440-39-3	
Boron	ND	ug/L	100	1	11/09/17 10:57	11/10/17 10:40	7440-42-8	
Calcium	**80200**	ug/L	500	1	11/09/17 10:57	11/10/17 10:40	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:40	7440-48-4	
Iron	**560**	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:40	7439-89-6	
Magnesium	**34600**	ug/L	500	1	11/09/17 10:57	11/10/17 10:40	7439-95-4	
Manganese	**51.4**	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:40	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:40	7440-02-0	
Sodium	**6740**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:40	7440-23-5	
Total Hardness by 2340B	**343000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:40		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:18	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:18	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:47	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:18	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:47	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:18	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:24	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 10:52	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SD **Lab ID: 50183795008** Collected: 11/07/17 09:53 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acrylonitrile	ND	ug/L	100	1		11/15/17 10:52	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 10:52	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 10:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 10:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 10:52	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 10:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 10:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 10:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 10:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 10:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 10:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 10:52	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 10:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 10:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 10:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 10:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 10:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 10:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 10:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 10:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 10:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 10:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 10:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 10:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 10:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 10:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 10:52	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 10:52	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 10:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 10:52	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 10:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 10:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 10:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 10:52	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 10:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 10:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 10:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 10:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 10:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 10:52	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 10:52	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 10:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 10:52	1330-20-7	

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7726 Moller Road
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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SD **Lab ID: 50183795008** Collected: 11/07/17 09:53 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/15/17 10:52	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/15/17 10:52	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/15/17 10:52	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**296**	mg/L	10.0	1		11/10/17 14:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/13/17 14:55		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:59	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**0.35**	mg/L	0.10	1		11/17/17 14:49	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	4.0	4		11/14/17 02:25	7440-44-0	D3

Sample: PZ-100-SS **Lab ID: 50183795009** Collected: 11/07/17 10:45 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.16**	Std. Units		1		11/07/17 10:45		
Field Temperature	**16.1**	deg C		1		11/07/17 10:45		
Field Specific Conductance	**786**	umhos/cm		1		11/07/17 10:45		
Field Oxidation Potential	**50**	mV		1		11/07/17 10:45		
Oxygen, Dissolved	**2.21**	mg/L		1		11/07/17 10:45	7782-44-7	
Field Turbidity	**3.62**	NTU		1		11/07/17 10:45		
Elevation Water Level	**456.38**	ft/msl		1		11/07/17 10:45		
Collar Elevation	**485.75**	ft/msl		1		11/07/17 10:45		
Depth to Water	**29.37**	feet		1		11/07/17 10:45		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.0**	mg/L	0.25	1		11/16/17 04:52	16887-00-6	
Fluoride	**0.54**	mg/L	0.10	1		11/16/17 04:52	16984-48-8	
Sulfate	**34.4**	mg/L	2.5	10		11/16/17 05:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SS **Lab ID: 50183795009** Collected: 11/07/17 10:45 Received: 11/08/17 08:35 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	**67.4**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:46	7440-39-3	
Boron	**113**	ug/L	100	1	11/09/17 10:57	11/10/17 10:46	7440-42-8	
Calcium	**96000**	ug/L	500	1	11/09/17 10:57	11/10/17 10:46	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:46	7440-48-4	
Iron	ND	ug/L	50.0	1	11/09/17 10:57	11/10/17 10:46	7439-89-6	
Magnesium	**50500**	ug/L	500	1	11/09/17 10:57	11/10/17 10:46	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/09/17 10:57	11/10/17 10:46	7439-96-5	
Nickel	**10.1**	ug/L	10.0	1	11/09/17 10:57	11/10/17 10:46	7440-02-0	
Sodium	**9920**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:46	7440-23-5	
Total Hardness by 2340B	**448000**	ug/L	1000	1	11/09/17 10:57	11/10/17 10:46		
Zinc	ND	ug/L	20.0	1	11/09/17 10:57	11/10/17 10:46	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:23	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:23	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7440-50-8	
Lead	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 23:51	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:23	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:51	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:23	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:26	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 11:30	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 11:30	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 11:30	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 11:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 11:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 11:30	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 11:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 11:30	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 11:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 11:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 11:30	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 11:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 11:30	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 11:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 11:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 11:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 11:30	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SS **Lab ID: 50183795009** Collected: 11/07/17 10:45 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		11/15/17 11:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 11:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 11:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 11:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 11:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 11:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 11:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 11:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 11:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 11:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 11:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 11:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 11:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 11:30	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 11:30	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 11:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 11:30	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 11:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 11:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 11:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 11:30	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 11:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 11:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 11:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 11:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 11:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 11:30	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 11:30	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 11:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 11:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/15/17 11:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/15/17 11:30	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/15/17 11:30	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**408**	mg/L	10.0	1		11/10/17 14:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/13/17 14:57		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 12:59	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-100-SS **Lab ID: 50183795009** Collected: 11/07/17 10:45 Received: 11/08/17 08:35 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		11/17/17 14:58	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.3**	mg/L	1.0	1		11/14/17 03:42	7440-44-0	

Sample: PZ-201A-SS **Lab ID: 50183795010** Collected: 11/07/17 11:43 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.18**	Std. Units		1		11/07/17 11:43		
Field Temperature	**16.7**	deg C		1		11/07/17 11:43		
Field Specific Conductance	**777**	umhos/cm		1		11/07/17 11:43		
Field Oxidation Potential	**36**	mV		1		11/07/17 11:43		
Oxygen, Dissolved	**2.38**	mg/L		1		11/07/17 11:43	7782-44-7	
Field Turbidity	**3.84**	NTU		1		11/07/17 11:43		
Elevation Water Level	**467.38**	ft/msl		1		11/07/17 11:43		
Collar Elevation	**480.20**	ft/msl		1		11/07/17 11:43		
Depth to Water	**12.82**	feet		1		11/07/17 11:43		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.1**	mg/L	0.25	1		11/16/17 06:09	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	1		11/16/17 06:09	16984-48-8	
Sulfate	**60.6**	mg/L	2.5	10		11/16/17 06:24	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**129**	ug/L	10.0	1	11/10/17 06:00	11/14/17 00:46	7440-39-3	
Boron	ND	ug/L	100	1	11/10/17 06:00	11/14/17 00:46	7440-42-8	
Calcium	**91900**	ug/L	500	1	11/10/17 06:00	11/14/17 00:46	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/10/17 06:00	11/14/17 00:46	7440-48-4	
Iron	ND	ug/L	50.0	1	11/10/17 06:00	11/14/17 00:46	7439-89-6	
Magnesium	**45700**	ug/L	500	1	11/10/17 06:00	11/14/17 00:46	7439-95-4	
Manganese	ND	ug/L	5.0	1	11/10/17 06:00	11/14/17 00:46	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/10/17 06:00	11/14/17 00:46	7440-02-0	
Sodium	**12300**	ug/L	1000	1	11/10/17 06:00	11/14/17 00:46	7440-23-5	
Total Hardness by 2340B	**417000**	ug/L	1000	1	11/10/17 06:00	11/14/17 00:46		
Zinc	ND	ug/L	20.0	1	11/10/17 06:00	11/14/17 00:46	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 00:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/13/17 08:27	11/14/17 00:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7440-47-3	
Copper	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7440-50-8	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-201A-SS **Lab ID: 50183795010** Collected: 11/07/17 11:43 Received: 11/08/17 08:35 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	11/13/17 08:27	11/14/17 23:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7782-49-2	
Silver	ND	ug/L	5.0	1	11/13/17 08:27	11/14/17 00:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/13/17 08:27	11/14/17 23:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/13/17 08:27	11/14/17 00:28	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/20/17 11:10	11/20/17 20:28	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 12:08	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 12:08	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 12:08	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 12:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 12:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 12:08	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/15/17 12:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 12:08	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 12:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 12:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 12:08	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 12:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 12:08	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 12:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 12:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 12:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 12:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 12:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 12:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 12:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 12:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 12:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 12:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 12:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 12:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 12:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 12:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 12:08	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 12:08	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 12:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 12:08	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 12:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 12:08	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-201A-SS **Lab ID: 50183795010** Collected: 11/07/17 11:43 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 12:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 12:08	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 12:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 12:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 12:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 12:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 12:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 12:08	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 12:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 12:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 12:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/15/17 12:08	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/15/17 12:08	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		11/15/17 12:08	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**441**	mg/L	10.0	1		11/10/17 14:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/10/17 11:20	11/10/17 14:27		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.38**	mg/L	0.10	1		11/13/17 14:59		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/14/17 07:45	11/14/17 13:00	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/17/17 14:59	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		11/14/17 04:36	7440-44-0	

Sample: Trip Blank **Lab ID: 50183795011** Collected: 11/07/17 08:00 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/15/17 12:45	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/15/17 12:45	107-13-1	
Benzene	ND	ug/L	5.0	1		11/15/17 12:45	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/15/17 12:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/15/17 12:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/15/17 12:45	75-25-2	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: Trip Blank **Lab ID: 50183795011** Collected: 11/07/17 08:00 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Bromomethane	ND	ug/L	10.0	1		11/15/17 12:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/15/17 12:45	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/15/17 12:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/15/17 12:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/15/17 12:45	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/15/17 12:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/15/17 12:45	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/15/17 12:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/15/17 12:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/15/17 12:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/15/17 12:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/15/17 12:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 12:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/15/17 12:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/15/17 12:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/15/17 12:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/15/17 12:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/15/17 12:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/15/17 12:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 12:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/15/17 12:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/15/17 12:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/15/17 12:45	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/15/17 12:45	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		11/15/17 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/15/17 12:45	108-10-1	
Styrene	ND	ug/L	5.0	1		11/15/17 12:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 12:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/15/17 12:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/15/17 12:45	127-18-4	
Toluene	ND	ug/L	5.0	1		11/15/17 12:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/15/17 12:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/15/17 12:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/15/17 12:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/15/17 12:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/15/17 12:45	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/15/17 12:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/15/17 12:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/15/17 12:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/15/17 12:45	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/15/17 12:45	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/15/17 12:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-209-SD **Lab ID: 50183793001** Collected: 11/07/17 14:30 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.30**	Std. Units		1		11/07/17 14:30		
Field Temperature	**14.1**	deg C		1		11/07/17 14:30		
Field Specific Conductance	**821**	umhos/cm		1		11/07/17 14:30		
Field Oxidation Potential	**-120**	mV		1		11/07/17 14:30		
Oxygen, Dissolved	**0.29**	mg/L		1		11/07/17 14:30	7782-44-7	
Field Turbidity	**4.02**	NTU		1		11/07/17 14:30		
Elevation Water Level	**465.38**	ft/msl		1		11/07/17 14:30		
Collar Elevation	**489.58**	ft/msl		1		11/07/17 14:30		
Depth to Water	**24.20**	feet		1		11/07/17 14:30		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/08/17 09:30	11/09/17 15:33	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	84	%.	10-108	1	11/08/17 09:30	11/09/17 15:33	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**57.2**	ug/L	10.0	1	11/09/17 11:10	11/16/17 12:02	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/09/17 11:10	11/16/17 12:02	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/09/17 11:10	11/16/17 12:02	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/09/17 11:10	11/16/17 12:02	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:43	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/18/17 19:25	11/20/17 08:43	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/18/17 19:25	11/20/17 08:43	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:43	7440-47-3	
Copper	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:43	7440-50-8	
Lead	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:43	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:43	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/18/17 19:25	11/20/17 08:43	7440-62-2	
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	11/08/17 20:25	11/09/17 15:00		
Phenol	ND	ug/L	10.0	1	11/08/17 20:25	11/09/17 15:00	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	64	%.	18-136	1	11/08/17 20:25	11/09/17 15:00	4165-60-0	
2-Fluorobiphenyl (S)	55	%.	10-127	1	11/08/17 20:25	11/09/17 15:00	321-60-8	
p-Terphenyl-d14 (S)	70	%.	16-146	1	11/08/17 20:25	11/09/17 15:00	1718-51-0	
Phenol-d5 (S)	29	%.	10-64	1	11/08/17 20:25	11/09/17 15:00	4165-62-2	
2-Fluorophenol (S)	39	%.	10-76	1	11/08/17 20:25	11/09/17 15:00	367-12-4	
2,4,6-Tribromophenol (S)	61	%.	26-140	1	11/08/17 20:25	11/09/17 15:00	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/21/17 02:58	67-64-1	
Benzene	ND	ug/L	5.0	1		11/20/17 03:49	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/20/17 03:49	78-93-3	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-209-SD **Lab ID: 50183793001** Collected: 11/07/17 14:30 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
n-Butyl chloride	ND	ug/L	5.0	1		11/20/17 03:49	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/20/17 03:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/20/17 03:49	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/20/17 03:49	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/20/17 03:49	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/20/17 03:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/20/17 03:49	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/20/17 03:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/20/17 03:49	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/20/17 03:49	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/20/17 03:49	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/20/17 03:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/20/17 03:49	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/20/17 03:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	86-116	1		11/20/17 03:49	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/20/17 03:49	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/20/17 03:49	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/09/17 12:58		

Sample: PZ-209-SS **Lab ID: 50183793002** Collected: 11/07/17 15:14 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.38**	Std. Units		1		11/07/17 15:14		
Field Temperature	**14.2**	deg C		1		11/07/17 15:14		
Field Specific Conductance	**717**	umhos/cm		1		11/07/17 15:14		
Field Oxidation Potential	**-160**	mV		1		11/07/17 15:14		
Oxygen, Dissolved	**0.24**	mg/L		1		11/07/17 15:14	7782-44-7	
Field Turbidity	**5.47**	NTU		1		11/07/17 15:14		
Elevation Water Level	**467.28**	ft/msl		1		11/07/17 15:14		
Collar Elevation	**489.68**	ft/msl		1		11/07/17 15:14		
Depth to Water	**22.40**	feet		1		11/07/17 15:14		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/08/17 09:30	11/09/17 15:41	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	70	%.	10-108	1	11/08/17 09:30	11/09/17 15:41	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**91.0**	ug/L	10.0	1	11/09/17 11:10	11/16/17 12:17	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/09/17 11:10	11/16/17 12:17	7440-48-4	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-209-SS **Lab ID: 50183793002** Collected: 11/07/17 15:14 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Nickel	ND	ug/L	10.0	1	11/09/17 11:10	11/16/17 12:17	7440-02-0	
Zinc	**47.9**	ug/L	20.0	1	11/09/17 11:10	11/16/17 12:17	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:48	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/18/17 19:25	11/20/17 08:48	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/18/17 19:25	11/20/17 08:48	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:48	7440-47-3	
Copper	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:48	7440-50-8	
Lead	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:48	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/18/17 19:25	11/20/17 08:48	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/18/17 19:25	11/20/17 08:48	7440-62-2	
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	11/08/17 20:25	11/09/17 15:17		
Phenol	ND	ug/L	10.0	1	11/08/17 20:25	11/09/17 15:17	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%.	18-136	1	11/08/17 20:25	11/09/17 15:17	4165-60-0	
2-Fluorobiphenyl (S)	64	%.	10-127	1	11/08/17 20:25	11/09/17 15:17	321-60-8	
p-Terphenyl-d14 (S)	80	%.	16-146	1	11/08/17 20:25	11/09/17 15:17	1718-51-0	
Phenol-d5 (S)	32	%.	10-64	1	11/08/17 20:25	11/09/17 15:17	4165-62-2	
2-Fluorophenol (S)	44	%.	10-76	1	11/08/17 20:25	11/09/17 15:17	367-12-4	
2,4,6-Tribromophenol (S)	69	%.	26-140	1	11/08/17 20:25	11/09/17 15:17	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/21/17 03:31	67-64-1	
Benzene	ND	ug/L	5.0	1		11/20/17 04:21	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/20/17 04:21	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/20/17 04:21	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/20/17 04:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/20/17 04:21	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/20/17 04:21	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/20/17 04:21	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/20/17 04:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/20/17 04:21	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/20/17 04:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/20/17 04:21	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/20/17 04:21	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/20/17 04:21	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/20/17 04:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/20/17 04:21	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/20/17 04:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	86-116	1		11/20/17 04:21	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/20/17 04:21	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		11/20/17 04:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-209-SS **Lab ID: 50183793002** Collected: 11/07/17 15:14 Received: 11/08/17 08:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	10.0	10		11/10/17 13:39		

Sample: PZ-114-AS **Lab ID: 50184447001** Collected: 11/13/17 09:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.56**	Std. Units		1		11/13/17 09:38		
Field Temperature	**16.2**	deg C		1		11/13/17 09:38		
Field Specific Conductance	**2310**	umhos/cm		1		11/13/17 09:38		
Field Oxidation Potential	**-78**	mV		1		11/13/17 09:38		
Oxygen, Dissolved	**2.79**	mg/L		1		11/13/17 09:38	7782-44-7	
Field Turbidity	**3.22**	NTU		1		11/13/17 09:38		
Elevation Water Level	**430.86**	ft/msl		1		11/13/17 09:38		
Collar Elevation	**451.26**	ft/msl		1		11/13/17 09:38		
Depth to Water	**20.40**	feet		1		11/13/17 09:38		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**297**	mg/L	25.0	100		11/20/17 03:37	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		11/20/17 03:20	16984-48-8	
Sulfate	**0.33**	mg/L	0.25	1		11/20/17 03:20	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**1130**	ug/L	10.0	1	11/16/17 11:14	11/22/17 01:55	7440-39-3	
Boron	**284**	ug/L	100	1	11/16/17 11:14	11/22/17 01:55	7440-42-8	
Calcium	**218000**	ug/L	1000	2	11/16/17 11:14	11/22/17 03:08	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/17 11:14	11/22/17 01:55	7440-48-4	
Iron	**70400**	ug/L	50.0	1	11/16/17 11:14	11/22/17 01:55	7439-89-6	
Magnesium	**62600**	ug/L	500	1	11/16/17 11:14	11/22/17 01:55	7439-95-4	
Manganese	**3260**	ug/L	5.0	1	11/16/17 11:14	11/22/17 01:55	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/17 11:14	11/22/17 01:55	7440-02-0	
Sodium	**111000**	ug/L	1000	1	11/16/17 11:14	11/22/17 01:55	7440-23-5	
Total Hardness by 2340B	**801000**	ug/L	2000	2	11/16/17 11:14	11/22/17 03:08		
Zinc	ND	ug/L	20.0	1	11/16/17 11:14	11/22/17 01:55	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:52	7440-36-0	
Arsenic	**73.0**	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:52	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 16:14	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/17/17 07:38	11/28/17 06:52	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:14	7440-47-3	
Copper	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:14	7440-50-8	
Lead	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:52	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:52	7782-49-2	
Silver	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:52	7440-22-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-114-AS **Lab ID: 50184447001** Collected: 11/13/17 09:38 Received: 11/15/17 08:20 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							
Thallium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 06:52	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/17/17 07:38	11/28/17 16:14	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/29/17 11:24	11/29/17 18:35	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/21/17 18:17	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/21/17 18:17	107-13-1	
Benzene	**19.8**	ug/L	5.0	1		11/21/17 18:17	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/21/17 18:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/21/17 18:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/21/17 18:17	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/21/17 18:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/21/17 18:17	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/21/17 18:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/17 18:17	56-23-5	
Chlorobenzene	**107**	ug/L	5.0	1		11/21/17 18:17	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/21/17 18:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/21/17 18:17	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/21/17 18:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/21/17 18:17	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/21/17 18:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/21/17 18:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/21/17 18:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/21/17 18:17	95-50-1	
1,4-Dichlorobenzene	**5.7**	ug/L	5.0	1		11/21/17 18:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/21/17 18:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/21/17 18:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/21/17 18:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/21/17 18:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/21/17 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/21/17 18:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/21/17 18:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/21/17 18:17	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/17 18:17	74-88-4	
Methylene Chloride	**5.7**	ug/L	5.0	1		11/21/17 18:17	75-09-2	B,C9, CH,L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/21/17 18:17	108-10-1	
Styrene	ND	ug/L	5.0	1		11/21/17 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/21/17 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/21/17 18:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/17 18:17	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/17 18:17	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-114-AS **Lab ID: 50184447001** Collected: 11/13/17 09:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/17 18:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/21/17 18:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/21/17 18:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/21/17 18:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/21/17 18:17	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/21/17 18:17	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/21/17 18:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/21/17 18:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		11/21/17 18:17	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	84-113	1		11/21/17 18:17	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		11/21/17 18:17	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1250**	mg/L	10.0	1		11/16/17 10:44		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**48.1**	mg/L	10.0	1	11/17/17 15:30	11/17/17 17:56		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	2.0	20		11/17/17 16:38		D3
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**2.1**	mg/L	0.25	5	11/21/17 12:40	11/22/17 11:24	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**6.4**	mg/L	0.10	1		11/20/17 15:24	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**14.9**	mg/L	10.0	10		11/22/17 23:30	7440-44-0	

Sample: PZ-115-SS **Lab ID: 50184447002** Collected: 11/13/17 10:28 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.61**	Std. Units		1		11/13/17 10:28		
Field Temperature	**15.8**	deg C		1		11/13/17 10:28		
Field Specific Conductance	**2730**	umhos/cm		1		11/13/17 10:28		
Field Oxidation Potential	**-10**	mV		1		11/13/17 10:28		
Oxygen, Dissolved	**0.20**	mg/L		1		11/13/17 10:28	7782-44-7	
Field Turbidity	**4.23**	NTU		1		11/13/17 10:28		
Elevation Water Level	**436.83**	ft/msl		1		11/13/17 10:28		
Collar Elevation	**452.27**	ft/msl		1		11/13/17 10:28		
Depth to Water	**15.44**	feet		1		11/13/17 10:28		

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-115-SS **Lab ID: 50184447002** Collected: 11/13/17 10:28 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**487**	mg/L	25.0	100		11/20/17 04:11	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	1		11/20/17 03:54	16984-48-8	
Sulfate	**4.6**	mg/L	0.25	1		11/20/17 03:54	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**488**	ug/L	10.0	1	11/16/17 11:14	11/22/17 01:58	7440-39-3	
Boron	**453**	ug/L	100	1	11/16/17 11:14	11/22/17 01:58	7440-42-8	
Calcium	**214000**	ug/L	1000	2	11/16/17 11:14	11/22/17 03:11	7440-70-2	
Cobalt	**27.2**	ug/L	5.0	1	11/16/17 11:14	11/22/17 01:58	7440-48-4	
Iron	**2940**	ug/L	50.0	1	11/16/17 11:14	11/22/17 01:58	7439-89-6	
Magnesium	**101000**	ug/L	500	1	11/16/17 11:14	11/22/17 01:58	7439-95-4	
Manganese	**74.6**	ug/L	5.0	1	11/16/17 11:14	11/22/17 01:58	7439-96-5	
Nickel	**68.4**	ug/L	10.0	1	11/16/17 11:14	11/22/17 01:58	7440-02-0	
Sodium	**176000**	ug/L	1000	1	11/16/17 11:14	11/22/17 01:58	7440-23-5	
Total Hardness by 2340B	**950000**	ug/L	2000	2	11/16/17 11:14	11/22/17 03:11		
Zinc	ND	ug/L	20.0	1	11/16/17 11:14	11/22/17 01:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:56	7440-36-0	
Arsenic	**5.8**	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 16:19	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/17/17 07:38	11/28/17 06:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:19	7440-47-3	
Copper	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:19	7440-50-8	
Lead	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:56	7782-49-2	
Silver	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 06:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 06:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/17/17 07:38	11/28/17 16:19	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/29/17 11:24	11/29/17 18:38	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/21/17 18:49	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/21/17 18:49	107-13-1	
Benzene	ND	ug/L	5.0	1		11/21/17 18:49	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/21/17 18:49	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/21/17 18:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/21/17 18:49	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/21/17 18:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/21/17 18:49	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/21/17 18:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/21/17 18:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/21/17 18:49	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/21/17 18:49	75-00-3	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-115-SS **Lab ID: 50184447002** Collected: 11/13/17 10:28 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	5.0	1		11/21/17 18:49	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/21/17 18:49	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/21/17 18:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/21/17 18:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/21/17 18:49	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/21/17 18:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/21/17 18:49	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/21/17 18:49	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/21/17 18:49	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/21/17 18:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/21/17 18:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/21/17 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/21/17 18:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/21/17 18:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/21/17 18:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/21/17 18:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/21/17 18:49	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/21/17 18:49	74-88-4	
Methylene Chloride	**6.4**	ug/L	5.0	1		11/21/17 18:49	75-09-2	B,C9, CH,L1
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/21/17 18:49	108-10-1	
Styrene	ND	ug/L	5.0	1		11/21/17 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/21/17 18:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/21/17 18:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/21/17 18:49	127-18-4	
Toluene	ND	ug/L	5.0	1		11/21/17 18:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/21/17 18:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/21/17 18:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/21/17 18:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/21/17 18:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/21/17 18:49	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/21/17 18:49	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/21/17 18:49	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/21/17 18:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	86-116	1		11/21/17 18:49	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/21/17 18:49	460-00-4	
Toluene-d8 (S)	103	%.	86-111	1		11/21/17 18:49	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1470**	mg/L	10.0	1		11/16/17 10:44		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**35.0**	mg/L	10.0	1	11/17/17 15:30	11/17/17 17:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-115-SS **Lab ID: 50184447002** Collected: 11/13/17 10:28 Received: 11/15/17 08:20 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		11/17/17 15:45		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.24**	mg/L	0.050	1	11/21/17 12:40	11/22/17 10:22	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**1.2**	mg/L	0.10	1		11/20/17 15:25	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**12.1**	mg/L	10.0	10		11/22/17 23:53	7440-44-0	

Sample: PZ-105-SS **Lab ID: 50184447003** Collected: 11/13/17 11:41 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.02**	Std. Units		1		11/13/17 11:41		
Field Temperature	**21.0**	deg C		1		11/13/17 11:41		
Field Specific Conductance	**1067**	umhos/cm		1		11/13/17 11:41		
Field Oxidation Potential	**-28**	mV		1		11/13/17 11:41		
Oxygen, Dissolved	**1.55**	mg/L		1		11/13/17 11:41	7782-44-7	
Field Turbidity	**4.65**	NTU		1		11/13/17 11:41		
Elevation Water Level	**459.66**	ft/msl		1		11/13/17 11:41		
Collar Elevation	**483.51**	ft/msl		1		11/13/17 11:41		
Depth to Water	**23.85**	feet		1		11/13/17 11:41		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**75.5**	mg/L	2.5	10		11/20/17 04:44	16887-00-6	
Fluoride	**0.56**	mg/L	0.10	1		11/20/17 04:27	16984-48-8	
Sulfate	**45.7**	mg/L	2.5	10		11/20/17 04:44	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**170**	ug/L	10.0	1	11/16/17 11:14	11/22/17 02:00	7440-39-3	
Boron	ND	ug/L	100	1	11/16/17 11:14	11/22/17 02:00	7440-42-8	
Calcium	**100000**	ug/L	500	1	11/16/17 11:14	11/22/17 02:00	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/16/17 11:14	11/22/17 02:00	7440-48-4	
Iron	**1480**	ug/L	50.0	1	11/16/17 11:14	11/22/17 02:00	7439-89-6	
Magnesium	**53400**	ug/L	500	1	11/16/17 11:14	11/22/17 02:00	7439-95-4	
Manganese	**62.1**	ug/L	5.0	1	11/16/17 11:14	11/22/17 02:00	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/16/17 11:14	11/22/17 02:00	7440-02-0	
Sodium	**41200**	ug/L	1000	1	11/16/17 11:14	11/22/17 02:00	7440-23-5	
Total Hardness by 2340B	**471000**	ug/L	1000	1	11/16/17 11:14	11/22/17 02:00		
Zinc	ND	ug/L	20.0	1	11/16/17 11:14	11/22/17 02:00	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-105-SS **Lab ID: 50184447003** Collected: 11/13/17 11:41 Received: 11/15/17 08:20 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							
Antimony	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 07:01	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 07:01	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 16:23	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/17/17 07:38	11/28/17 07:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:23	7440-47-3	
Copper	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 16:23	7440-50-8	
Lead	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 07:01	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 07:01	7782-49-2	
Silver	ND	ug/L	5.0	1	11/17/17 07:38	11/28/17 07:01	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/17/17 07:38	11/28/17 07:01	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/17/17 07:38	11/28/17 16:23	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/29/17 11:24	11/29/17 18:40	7439-97-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 17:33	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/22/17 17:33	107-13-1	
Benzene	ND	ug/L	5.0	1		11/22/17 17:33	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 17:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/22/17 17:33	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/22/17 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 17:33	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 17:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 17:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 17:33	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/22/17 17:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 17:33	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/22/17 17:33	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/22/17 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 17:33	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/22/17 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 17:33	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 17:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/22/17 17:33	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 17:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 17:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 17:33	100-41-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-105-SS **Lab ID: 50184447003** Collected: 11/13/17 11:41 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	10.0	1		11/22/17 17:33	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/22/17 17:33	74-88-4	
Methylene Chloride	**8.7**	ug/L	5.0	1		11/22/17 17:33	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 17:33	108-10-1	
Styrene	ND	ug/L	5.0	1		11/22/17 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 17:33	127-18-4	
Toluene	ND	ug/L	5.0	1		11/22/17 17:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/17 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/17 17:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/17 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/22/17 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/22/17 17:33	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		11/22/17 17:33	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/22/17 17:33	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 17:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	86-116	1		11/22/17 17:33	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		11/22/17 17:33	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/22/17 17:33	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**589**	mg/L	10.0	1		11/16/17 10:44		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**10.4**	mg/L	10.0	1	11/17/17 15:30	11/17/17 17:56		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/17/17 15:47		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/21/17 12:40	11/22/17 10:22	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/20/17 15:35	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	1.0	1		11/23/17 00:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: FB @ PZ-104-SD **Lab ID: 50184455001** Collected: 11/13/17 13:00 Received: 11/15/17 08:20 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	11/15/17 20:50	11/16/17 22:29	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	44	%.	10-108	1	11/15/17 20:50	11/16/17 22:29	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	ND	mg/L	0.25	1		11/19/17 23:59	16887-00-6	
Fluoride	ND	mg/L	0.10	1		11/19/17 23:59	16984-48-8	
Sulfate	ND	mg/L	0.25	1		11/19/17 23:59	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 12:53	7440-39-3	
Boron	ND	ug/L	100	1	11/20/17 05:50	11/27/17 12:53	7440-42-8	
Calcium	**2010**	ug/L	500	1	11/20/17 05:50	11/27/17 12:53	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 12:53	7440-48-4	
Iron	**284**	ug/L	50.0	1	11/20/17 05:50	11/27/17 12:53	7439-89-6	
Magnesium	**944**	ug/L	500	1	11/20/17 05:50	11/27/17 12:53	7439-95-4	
Manganese	**6.8**	ug/L	5.0	1	11/20/17 05:50	11/27/17 12:53	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 12:53	7440-02-0	
Sodium	ND	ug/L	1000	1	11/20/17 05:50	11/27/17 12:53	7440-23-5	
Total Hardness by 2340B	**8920**	ug/L	1000	1	11/20/17 05:50	11/27/17 12:53		
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 12:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:04	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:04	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7782-49-2	
Silver	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:04	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:04	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:04	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/29/17 11:24	11/29/17 18:46	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	11/16/17 09:30	11/16/17 13:39		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 13:39	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	58	%.	18-136	1	11/16/17 09:30	11/16/17 13:39	4165-60-0	
2-Fluorobiphenyl (S)	60	%.	10-127	1	11/16/17 09:30	11/16/17 13:39	321-60-8	
p-Terphenyl-d14 (S)	89	%.	16-146	1	11/16/17 09:30	11/16/17 13:39	1718-51-0	
Phenol-d5 (S)	25	%.	10-64	1	11/16/17 09:30	11/16/17 13:39	4165-62-2	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: FB @ PZ-104-SD **Lab ID: 50184455001** Collected: 11/13/17 13:00 Received: 11/15/17 08:20 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								
2-Fluorophenol (S)	39	%.	10-76	1	11/16/17 09:30	11/16/17 13:39	367-12-4	
2,4,6-Tribromophenol (S)	76	%.	26-140	1	11/16/17 09:30	11/16/17 13:39	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 18:05	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/22/17 18:05	107-13-1	
Benzene	ND	ug/L	5.0	1		11/22/17 18:05	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 18:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 18:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/22/17 18:05	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/22/17 18:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 18:05	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 18:05	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 18:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 18:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 18:05	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/22/17 18:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 18:05	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/22/17 18:05	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/22/17 18:05	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 18:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 18:05	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/22/17 18:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 18:05	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 18:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/22/17 18:05	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 18:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 18:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 18:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 18:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 18:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 18:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 18:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/22/17 18:05	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/22/17 18:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 18:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 18:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/22/17 18:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 18:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 18:05	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/22/17 18:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 18:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 18:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 18:05	127-18-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: FB @ PZ-104-SD **Lab ID: 50184455001** Collected: 11/13/17 13:00 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 18:05	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 18:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/17 18:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/17 18:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/17 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/22/17 18:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/22/17 18:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 18:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 18:05	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/22/17 18:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/22/17 18:05	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 18:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/22/17 18:05	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		11/22/17 18:05	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		11/22/17 18:05	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		11/16/17 10:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	11/21/17 11:02	11/21/17 17:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 14:10		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/17/17 15:55		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/21/17 12:40	11/22/17 10:24	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/20/17 15:38	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		11/23/17 01:33	7440-44-0	

Sample: PZ-104-SD **Lab ID: 50184455002** Collected: 11/13/17 13:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.76**	Std. Units		1		11/13/17 13:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SD **Lab ID: 50184455002** Collected: 11/13/17 13:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Temperature	**26.0**	deg C		1		11/13/17 13:38		
Field Specific Conductance	**2010**	umhos/cm		1		11/13/17 13:38		
Field Oxidation Potential	**-114**	mV		1		11/13/17 13:38		
Oxygen, Dissolved	**0.18**	mg/L		1		11/13/17 13:38	7782-44-7	
Field Turbidity	**3.72**	NTU		1		11/13/17 13:38		
Elevation Water Level	**461.73**	ft/msl		1		11/13/17 13:38		
Collar Elevation	**483.51**	ft/msl		1		11/13/17 13:38		
Depth to Water	**21.78**	feet		1		11/13/17 13:38		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 22:42	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	40	%.	10-108	1	11/15/17 20:50	11/16/17 22:42	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**211**	mg/L	25.0	100		11/21/17 14:05	16887-00-6	
Fluoride	**0.90**	mg/L	0.10	1		11/20/17 01:23	16984-48-8	
Sulfate	**1.3**	mg/L	0.25	1		11/20/17 01:23	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**563**	ug/L	10.0	1	11/20/17 05:50	11/27/17 12:55	7440-39-3	
Boron	**817**	ug/L	100	1	11/20/17 05:50	11/27/17 12:55	7440-42-8	
Calcium	**93200**	ug/L	500	1	11/20/17 05:50	11/27/17 12:55	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 12:55	7440-48-4	
Iron	**8370**	ug/L	50.0	1	11/20/17 05:50	11/27/17 12:55	7439-89-6	
Magnesium	**56800**	ug/L	500	1	11/20/17 05:50	11/27/17 12:55	7439-95-4	
Manganese	**118**	ug/L	5.0	1	11/20/17 05:50	11/27/17 12:55	7439-96-5	
Nickel	**53.0**	ug/L	10.0	1	11/20/17 05:50	11/27/17 12:55	7440-02-0	
Sodium	**134000**	ug/L	1000	1	11/20/17 05:50	11/27/17 12:55	7440-23-5	
Total Hardness by 2340B	**466000**	ug/L	1000	1	11/20/17 05:50	11/27/17 12:55		
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 12:55	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7440-36-0	
Arsenic	**16.5**	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 16:58	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 16:58	7440-43-9	
Chromium	**9.8**	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7782-49-2	
Silver	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 16:58	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 16:58	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 16:58	7440-62-2	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SD **Lab ID: 50184455002** Collected: 11/13/17 13:38 Received: 11/15/17 08:20 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	11/29/17 11:24	11/29/17 18:54	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	11/16/17 09:30	11/16/17 13:55		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 13:55	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%.	18-136	1	11/16/17 09:30	11/16/17 13:55	4165-60-0	
2-Fluorobiphenyl (S)	74	%.	10-127	1	11/16/17 09:30	11/16/17 13:55	321-60-8	
p-Terphenyl-d14 (S)	64	%.	16-146	1	11/16/17 09:30	11/16/17 13:55	1718-51-0	
Phenol-d5 (S)	31	%.	10-64	1	11/16/17 09:30	11/16/17 13:55	4165-62-2	
2-Fluorophenol (S)	46	%.	10-76	1	11/16/17 09:30	11/16/17 13:55	367-12-4	
2,4,6-Tribromophenol (S)	97	%.	26-140	1	11/16/17 09:30	11/16/17 13:55	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 19:09	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/22/17 19:09	107-13-1	
Benzene	**320**	ug/L	50.0	10		11/22/17 19:41	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 19:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 19:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/22/17 19:09	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/22/17 19:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 19:09	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 19:09	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 19:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 19:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 19:09	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/22/17 19:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 19:09	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/22/17 19:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/22/17 19:09	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 19:09	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/22/17 19:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 19:09	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 19:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/22/17 19:09	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 19:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 19:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 19:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 19:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 19:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 19:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 19:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/22/17 19:09	591-78-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SD **Lab ID: 50184455002** Collected: 11/13/17 13:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Iodomethane	ND	ug/L	5.0	1		11/22/17 19:09	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 19:09	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 19:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/22/17 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 19:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 19:09	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/22/17 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 19:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 19:09	127-18-4	
Tetrahydrofuran	**956**	ug/L	500	10		11/22/17 19:41	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 19:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/17 19:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/17 19:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/17 19:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/22/17 19:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/22/17 19:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 19:09	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/22/17 19:09	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/22/17 19:09	75-01-4	
Xylene (Total)	**16.2**	ug/L	5.0	1		11/22/17 19:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		11/22/17 19:09	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/22/17 19:09	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		11/22/17 19:09	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**846**	mg/L	10.0	1		11/16/17 10:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**155**	mg/L	10.0	1	11/22/17 09:39	11/22/17 13:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 14:10		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		11/17/17 16:01		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.13**	mg/L	0.050	1	11/21/17 12:40	11/22/17 10:25	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**34.9**	mg/L	1.0	10		11/20/17 16:29	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SD **Lab ID: 50184455002** Collected: 11/13/17 13:38 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**42.9**	mg/L	40.0	40		11/23/17 01:55	7440-44-0	

Sample: PZ-104-SS **Lab ID: 50184455003** Collected: 11/13/17 14:37 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.57**	Std. Units		1		11/13/17 14:37		
Field Temperature	**26.3**	deg C		1		11/13/17 14:37		
Field Specific Conductance	**801**	umhos/cm		1		11/13/17 14:37		
Field Oxidation Potential	**-193**	mV		1		11/13/17 14:37		
Oxygen, Dissolved	**0.13**	mg/L		1		11/13/17 14:37	7782-44-7	
Field Turbidity	**3.30**	NTU		1		11/13/17 14:37		
Elevation Water Level	**462.96**	ft/msl		1		11/13/17 14:37		
Collar Elevation	**483.45**	ft/msl		1		11/13/17 14:37		
Depth to Water	**20.49**	feet		1		11/13/17 14:37		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 22:55	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	38	%.	10-108	1	11/15/17 20:50	11/16/17 22:55	877-09-8	
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**4.2**	mg/L	0.25	1		11/20/17 02:30	16887-00-6	
Fluoride	**0.69**	mg/L	0.10	1		11/20/17 02:30	16984-48-8	
Sulfate	**24.7**	mg/L	0.25	1		11/20/17 02:30	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**103**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:03	7440-39-3	
Boron	**135**	ug/L	100	1	11/20/17 05:50	11/27/17 13:03	7440-42-8	
Calcium	**81200**	ug/L	500	1	11/20/17 05:50	11/27/17 13:03	7440-70-2	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:03	7440-48-4	
Iron	**155**	ug/L	50.0	1	11/20/17 05:50	11/27/17 13:03	7439-89-6	
Magnesium	**48500**	ug/L	500	1	11/20/17 05:50	11/27/17 13:03	7439-95-4	
Manganese	**25.7**	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:03	7439-96-5	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:03	7440-02-0	
Sodium	**14800**	ug/L	1000	1	11/20/17 05:50	11/27/17 13:03	7440-23-5	
Total Hardness by 2340B	**403000**	ug/L	1000	1	11/20/17 05:50	11/27/17 13:03		
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:03	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7440-36-0	
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:31	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:31	7440-43-9	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SS **Lab ID: 50184455003** Collected: 11/13/17 14:37 Received: 11/15/17 08:20 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							
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7782-49-2	
Silver	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:31	7440-22-4	
Thallium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:31	7440-28-0	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:31	7440-62-2	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	11/29/17 11:24	11/29/17 18:56	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	11/16/17 09:30	11/16/17 14:11		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 14:11	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	69	%.	18-136	1	11/16/17 09:30	11/16/17 14:11	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	10-127	1	11/16/17 09:30	11/16/17 14:11	321-60-8	
p-Terphenyl-d14 (S)	83	%.	16-146	1	11/16/17 09:30	11/16/17 14:11	1718-51-0	
Phenol-d5 (S)	26	%.	10-64	1	11/16/17 09:30	11/16/17 14:11	4165-62-2	
2-Fluorophenol (S)	44	%.	10-76	1	11/16/17 09:30	11/16/17 14:11	367-12-4	
2,4,6-Tribromophenol (S)	83	%.	26-140	1	11/16/17 09:30	11/16/17 14:11	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 20:13	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/22/17 20:13	107-13-1	
Benzene	**14.7**	ug/L	5.0	1		11/22/17 20:13	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/22/17 20:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/22/17 20:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/22/17 20:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/22/17 20:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 20:13	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 20:13	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/22/17 20:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/22/17 20:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/22/17 20:13	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/22/17 20:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/22/17 20:13	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/22/17 20:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/22/17 20:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/22/17 20:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/22/17 20:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		11/22/17 20:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 20:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 20:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/22/17 20:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/22/17 20:13	75-34-3	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SS **Lab ID: 50184455003** Collected: 11/13/17 14:37 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 20:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/22/17 20:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/22/17 20:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/22/17 20:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/22/17 20:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 20:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/22/17 20:13	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/22/17 20:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 20:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 20:13	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/22/17 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 20:13	108-10-1	
Methyl-tert-butyl ether	**7.9**	ug/L	5.0	1		11/22/17 20:13	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/22/17 20:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 20:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/22/17 20:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/22/17 20:13	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 20:13	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 20:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/22/17 20:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/22/17 20:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/22/17 20:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/22/17 20:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/22/17 20:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 20:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 20:13	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/22/17 20:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/22/17 20:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 20:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	86-116	1		11/22/17 20:13	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/22/17 20:13	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		11/22/17 20:13	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**389**	mg/L	10.0	1		11/16/17 10:46		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**16.5**	mg/L	10.0	1	11/21/17 11:02	11/21/17 17:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	10.0	10		11/16/17 14:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-SS **Lab ID: 50184455003** Collected: 11/13/17 14:37 Received: 11/15/17 08:20 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		11/17/17 16:03		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	11/21/17 12:40	11/22/17 10:26	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		11/20/17 15:42	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	40.0	40		11/23/17 02:18	7440-44-0	D3

Sample: PZ-104-KS **Lab ID: 50184455004** Collected: 11/13/17 16:06 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.14**	Std. Units		1		11/13/17 16:06		
Field Temperature	**23.8**	deg C		1		11/13/17 16:06		
Field Specific Conductance	**817**	umhos/cm		1		11/13/17 16:06		
Field Oxidation Potential	**-233**	mV		1		11/13/17 16:06		
Oxygen, Dissolved	**0.31**	mg/L		1		11/13/17 16:06	7782-44-7	
Field Turbidity	**6.03**	NTU		1		11/13/17 16:06		
Elevation Water Level	**465.99**	ft/msl		1		11/13/17 16:06		
Collar Elevation	**483.95**	ft/msl		1		11/13/17 16:06		
Depth to Water	**17.96**	feet		1		11/13/17 16:06		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 23:08	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	31	%.	10-108	1	11/15/17 20:50	11/16/17 23:08	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**96.4**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:05	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:05	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:05	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:05	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:36	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:36	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:36	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:36	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:36	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:36	7782-49-2	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-104-KS **Lab ID: 50184455004** Collected: 11/13/17 16:06 Received: 11/15/17 08:20 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							
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:36	7440-62-2	
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	11/16/17 09:30	11/16/17 14:28		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 14:28	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	60	%.	18-136	1	11/16/17 09:30	11/16/17 14:28	4165-60-0	
2-Fluorobiphenyl (S)	61	%.	10-127	1	11/16/17 09:30	11/16/17 14:28	321-60-8	
p-Terphenyl-d14 (S)	91	%.	16-146	1	11/16/17 09:30	11/16/17 14:28	1718-51-0	
Phenol-d5 (S)	24	%.	10-64	1	11/16/17 09:30	11/16/17 14:28	4165-62-2	
2-Fluorophenol (S)	37	%.	10-76	1	11/16/17 09:30	11/16/17 14:28	367-12-4	
2,4,6-Tribromophenol (S)	65	%.	26-140	1	11/16/17 09:30	11/16/17 14:28	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 20:45	67-64-1	
Benzene	**6.5**	ug/L	5.0	1		11/22/17 20:45	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 20:45	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 20:45	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 20:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 20:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 20:45	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 20:45	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 20:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 20:45	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 20:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 20:45	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 20:45	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 20:45	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 20:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 20:45	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 20:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	86-116	1		11/22/17 20:45	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/22/17 20:45	460-00-4	
Toluene-d8 (S)	95	%.	86-111	1		11/22/17 20:45	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 14:11		

Sample: PZ-210-SD **Lab ID: 50184455005** Collected: 11/14/17 09:31 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.19**	Std. Units		1		11/14/17 09:31		

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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-210-SD **Lab ID: 50184455005** Collected: 11/14/17 09:31 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Temperature	**15.7**	deg C		1		11/14/17 09:31		
Field Specific Conductance	**939**	umhos/cm		1		11/14/17 09:31		
Field Oxidation Potential	**-41**	mV		1		11/14/17 09:31		
Oxygen, Dissolved	**0.32**	mg/L		1		11/14/17 09:31	7782-44-7	
Field Turbidity	**4.53**	NTU		1		11/14/17 09:31		
Elevation Water Level	**460.65**	ft/msl		1		11/14/17 09:31		
Collar Elevation	**487.00**	ft/msl		1		11/14/17 09:31		
Depth to Water	**26.35**	feet		1		11/14/17 09:31		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 23:21	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	50	%.	10-108	1	11/15/17 20:50	11/16/17 23:21	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**69.4**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:07	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:07	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:07	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:07	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:41	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:41	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:41	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:41	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:41	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:41	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:41	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:41	7440-62-2	
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	11/16/17 09:30	11/16/17 15:16		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 15:16	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	71	%.	18-136	1	11/16/17 09:30	11/16/17 15:16	4165-60-0	
2-Fluorobiphenyl (S)	75	%.	10-127	1	11/16/17 09:30	11/16/17 15:16	321-60-8	
p-Terphenyl-d14 (S)	68	%.	16-146	1	11/16/17 09:30	11/16/17 15:16	1718-51-0	
Phenol-d5 (S)	28	%.	10-64	1	11/16/17 09:30	11/16/17 15:16	4165-62-2	
2-Fluorophenol (S)	42	%.	10-76	1	11/16/17 09:30	11/16/17 15:16	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	26-140	1	11/16/17 09:30	11/16/17 15:16	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 21:17	67-64-1	
Benzene	ND	ug/L	5.0	1		11/22/17 21:17	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 21:17	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 21:17	109-69-3	M1,N2

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(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-210-SD **Lab ID: 50184455005** Collected: 11/14/17 09:31 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 21:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 21:17	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 21:17	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 21:17	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 21:17	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 21:17	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 21:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 21:17	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 21:17	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 21:17	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 21:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 21:17	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 21:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		11/22/17 21:17	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/22/17 21:17	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		11/22/17 21:17	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 15:02		

Sample: PZ-210-SS **Lab ID: 50184455006** Collected: 11/14/17 10:16 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.20**	Std. Units		1		11/14/17 10:16		
Field Temperature	**15.7**	deg C		1		11/14/17 10:16		
Field Specific Conductance	**823**	umhos/cm		1		11/14/17 10:16		
Field Oxidation Potential	**-34**	mV		1		11/14/17 10:16		
Oxygen, Dissolved	**0.30**	mg/L		1		11/14/17 10:16	7782-44-7	
Field Turbidity	**4.81**	NTU		1		11/14/17 10:16		
Elevation Water Level	**461.27**	ft/msl		1		11/14/17 10:16		
Collar Elevation	**486.90**	ft/msl		1		11/14/17 10:16		
Depth to Water	**25.63**	feet		1		11/14/17 10:16		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 23:34	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	33	%.	10-108	1	11/15/17 20:50	11/16/17 23:34	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**88.3**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:09	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:09	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:09	7440-02-0	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-210-SS **Lab ID: 50184455006** Collected: 11/14/17 10:16 Received: 11/15/17 08:20 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	11/20/17 05:50	11/27/17 13:09	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:45	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:45	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:45	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:45	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:45	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:45	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:45	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:45	7440-62-2	
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	11/16/17 09:30	11/16/17 15:33		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 15:33	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	72	%.	18-136	1	11/16/17 09:30	11/16/17 15:33	4165-60-0	
2-Fluorobiphenyl (S)	73	%.	10-127	1	11/16/17 09:30	11/16/17 15:33	321-60-8	
p-Terphenyl-d14 (S)	74	%.	16-146	1	11/16/17 09:30	11/16/17 15:33	1718-51-0	
Phenol-d5 (S)	29	%.	10-64	1	11/16/17 09:30	11/16/17 15:33	4165-62-2	
2-Fluorophenol (S)	42	%.	10-76	1	11/16/17 09:30	11/16/17 15:33	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	26-140	1	11/16/17 09:30	11/16/17 15:33	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 22:53	67-64-1	
Benzene	ND	ug/L	5.0	1		11/22/17 22:53	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 22:53	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 22:53	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 22:53	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 22:53	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 22:53	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 22:53	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 22:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 22:53	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 22:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 22:53	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 22:53	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 22:53	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 22:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 22:53	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 22:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	86-116	1		11/22/17 22:53	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		11/22/17 22:53	460-00-4	
Toluene-d8 (S)	93	%.	86-111	1		11/22/17 22:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-210-SS **Lab ID: 50184455006** Collected: 11/14/17 10:16 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 15:02		

Sample: PZ-211-SD **Lab ID: 50184455007** Collected: 11/14/17 11:28 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.27**	Std. Units		1		11/14/17 11:28		
Field Temperature	**14.7**	deg C		1		11/14/17 11:28		
Field Specific Conductance	**905**	umhos/cm		1		11/14/17 11:28		
Field Oxidation Potential	**-183**	mV		1		11/14/17 11:28		
Oxygen, Dissolved	**0.22**	mg/L		1		11/14/17 11:28	7782-44-7	
Field Turbidity	**5.13**	NTU		1		11/14/17 11:28		
Elevation Water Level	**464.57**	ft/msl		1		11/14/17 11:28		
Collar Elevation	**487.46**	ft/msl		1		11/14/17 11:28		
Depth to Water	**22.89**	feet		1		11/14/17 11:28		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/16/17 23:47	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	31	%.	10-108	1	11/15/17 20:50	11/16/17 23:47	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**42.0**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:11	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:11	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:11	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:11	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:50	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:50	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:50	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:50	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:50	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:50	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:50	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:50	7440-62-2	
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	11/16/17 09:30	11/16/17 15:49		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 15:49	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	66	%.	18-136	1	11/16/17 09:30	11/16/17 15:49	4165-60-0	
2-Fluorobiphenyl (S)	70	%.	10-127	1	11/16/17 09:30	11/16/17 15:49	321-60-8	
p-Terphenyl-d14 (S)	88	%.	16-146	1	11/16/17 09:30	11/16/17 15:49	1718-51-0	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-211-SD **Lab ID: 50184455007** Collected: 11/14/17 11:28 Received: 11/15/17 08:20 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)	27	%.	10-64	1	11/16/17 09:30	11/16/17 15:49	4165-62-2	
2-Fluorophenol (S)	39	%.	10-76	1	11/16/17 09:30	11/16/17 15:49	367-12-4	
2,4,6-Tribromophenol (S)	78	%.	26-140	1	11/16/17 09:30	11/16/17 15:49	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 23:25	67-64-1	
Benzene	ND	ug/L	5.0	1		11/22/17 23:25	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 23:25	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 23:25	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:25	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:25	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 23:25	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 23:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 23:25	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 23:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 23:25	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 23:25	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 23:25	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:25	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 23:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/22/17 23:25	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/22/17 23:25	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		11/22/17 23:25	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	10.0	10		11/16/17 15:02		

Sample: PZ-211-SD DUP **Lab ID: 50184455008** Collected: 11/14/17 11:28 Received: 11/15/17 08:20 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	11/15/17 20:50	11/17/17 00:00	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	42	%.	10-108	1	11/15/17 20:50	11/17/17 00:00	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**42.4**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:13	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:13	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:13	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:13	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-211-SD DUP **Lab ID: 50184455008** Collected: 11/14/17 11:28 Received: 11/15/17 08:20 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	11/19/17 14:10	11/27/17 15:54	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:54	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:54	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:54	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:54	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:54	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:54	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:54	7440-62-2	
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	11/16/17 09:30	11/16/17 16:05		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 16:05	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	63	%.	18-136	1	11/16/17 09:30	11/16/17 16:05	4165-60-0	
2-Fluorobiphenyl (S)	63	%.	10-127	1	11/16/17 09:30	11/16/17 16:05	321-60-8	
p-Terphenyl-d14 (S)	91	%.	16-146	1	11/16/17 09:30	11/16/17 16:05	1718-51-0	
Phenol-d5 (S)	25	%.	10-64	1	11/16/17 09:30	11/16/17 16:05	4165-62-2	
2-Fluorophenol (S)	36	%.	10-76	1	11/16/17 09:30	11/16/17 16:05	367-12-4	
2,4,6-Tribromophenol (S)	66	%.	26-140	1	11/16/17 09:30	11/16/17 16:05	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/22/17 23:57	67-64-1	
Benzene	ND	ug/L	5.0	1		11/22/17 23:57	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/22/17 23:57	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/22/17 23:57	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:57	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/22/17 23:57	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/22/17 23:57	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/22/17 23:57	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/22/17 23:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/22/17 23:57	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/22/17 23:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/22/17 23:57	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/22/17 23:57	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/22/17 23:57	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/22/17 23:57	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/22/17 23:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	86-116	1		11/22/17 23:57	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	84-113	1		11/22/17 23:57	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/22/17 23:57	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	10.0	10		11/16/17 15:09		

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-211-SS **Lab ID: 50184455009** Collected: 11/14/17 12:17 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**7.23**	Std. Units		1		11/14/17 12:17		
Field Temperature	**14.8**	deg C		1		11/14/17 12:17		
Field Specific Conductance	**697**	umhos/cm		1		11/14/17 12:17		
Field Oxidation Potential	**-138**	mV		1		11/14/17 12:17		
Oxygen, Dissolved	**0.27**	mg/L		1		11/14/17 12:17	7782-44-7	
Field Turbidity	**3.91**	NTU		1		11/14/17 12:17		
Elevation Water Level	**466.32**	ft/msl		1		11/14/17 12:17		
Collar Elevation	**487.41**	ft/msl		1		11/14/17 12:17		
Depth to Water	**21.09**	feet		1		11/14/17 12:17		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	11/15/17 20:50	11/17/17 00:14	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	40	%.	10-108	1	11/15/17 20:50	11/17/17 00:14	877-09-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**62.7**	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:15	7440-39-3	
Cobalt	ND	ug/L	5.0	1	11/20/17 05:50	11/27/17 13:15	7440-48-4	
Nickel	ND	ug/L	10.0	1	11/20/17 05:50	11/27/17 13:15	7440-02-0	
Zinc	ND	ug/L	20.0	1	11/20/17 05:50	11/27/17 13:15	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Arsenic	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:59	7440-38-2	
Beryllium	ND	ug/L	2.0	1	11/19/17 14:10	11/27/17 15:59	7440-41-7	
Cadmium	ND	ug/L	0.20	1	11/19/17 14:10	11/27/17 15:59	7440-43-9	
Chromium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:59	7440-47-3	
Copper	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:59	7440-50-8	
Lead	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:59	7439-92-1	
Selenium	ND	ug/L	5.0	1	11/19/17 14:10	11/27/17 15:59	7782-49-2	
Vanadium	ND	ug/L	10.0	1	11/19/17 14:10	11/27/17 15:59	7440-62-2	
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	11/16/17 09:30	11/16/17 16:21		
Phenol	ND	ug/L	10.0	1	11/16/17 09:30	11/16/17 16:21	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	18-136	1	11/16/17 09:30	11/16/17 16:21	4165-60-0	
2-Fluorobiphenyl (S)	81	%.	10-127	1	11/16/17 09:30	11/16/17 16:21	321-60-8	
p-Terphenyl-d14 (S)	98	%.	16-146	1	11/16/17 09:30	11/16/17 16:21	1718-51-0	
Phenol-d5 (S)	32	%.	10-64	1	11/16/17 09:30	11/16/17 16:21	4165-62-2	
2-Fluorophenol (S)	48	%.	10-76	1	11/16/17 09:30	11/16/17 16:21	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	26-140	1	11/16/17 09:30	11/16/17 16:21	118-79-6	
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/23/17 00:29	67-64-1	
Benzene	ND	ug/L	5.0	1		11/23/17 00:29	71-43-2	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/23/17 00:29	78-93-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: PZ-211-SS **Lab ID: 50184455009** Collected: 11/14/17 12:17 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
n-Butyl chloride	ND	ug/L	5.0	1		11/23/17 00:29	109-69-3	N2
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 00:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 00:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 00:29	107-06-2	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 00:29	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 00:29	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 00:29	99-87-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/23/17 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/23/17 00:29	1634-04-4	
Tetrahydrofuran	ND	ug/L	100	1		11/23/17 00:29	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/23/17 00:29	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 00:29	108-67-8	
Xylene (Total)	ND	ug/L	5.0	1		11/23/17 00:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	86-116	1		11/23/17 00:29	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		11/23/17 00:29	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		11/23/17 00:29	2037-26-5	
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		11/16/17 15:10		

Sample: Trip Blank **Lab ID: 50184455010** Collected: 11/14/17 08:00 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		11/23/17 01:01	67-64-1	
Acrylonitrile	ND	ug/L	100	1		11/23/17 01:01	107-13-1	
Benzene	ND	ug/L	5.0	1		11/23/17 01:01	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		11/23/17 01:01	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		11/23/17 01:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		11/23/17 01:01	75-25-2	
Bromomethane	ND	ug/L	10.0	1		11/23/17 01:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/23/17 01:01	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		11/23/17 01:01	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		11/23/17 01:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		11/23/17 01:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		11/23/17 01:01	108-90-7	
Chloroethane	ND	ug/L	10.0	1		11/23/17 01:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		11/23/17 01:01	67-66-3	
Chloromethane	ND	ug/L	10.0	1		11/23/17 01:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		11/23/17 01:01	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		11/23/17 01:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		11/23/17 01:01	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Sample: Trip Blank **Lab ID: 50184455010** Collected: 11/14/17 08:00 Received: 11/15/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260/5030 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		11/23/17 01:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 01:01	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		11/23/17 01:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		11/23/17 01:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/23/17 01:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/23/17 01:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/23/17 01:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 01:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/23/17 01:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		11/23/17 01:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 01:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		11/23/17 01:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		11/23/17 01:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		11/23/17 01:01	591-78-6	
Iodomethane	ND	ug/L	5.0	1		11/23/17 01:01	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		11/23/17 01:01	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		11/23/17 01:01	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		11/23/17 01:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/23/17 01:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		11/23/17 01:01	1634-04-4	
Styrene	ND	ug/L	5.0	1		11/23/17 01:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 01:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		11/23/17 01:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		11/23/17 01:01	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		11/23/17 01:01	109-99-9	N2
Toluene	ND	ug/L	5.0	1		11/23/17 01:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/23/17 01:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		11/23/17 01:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		11/23/17 01:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		11/23/17 01:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		11/23/17 01:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 01:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		11/23/17 01:01	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		11/23/17 01:01	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		11/23/17 01:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		11/23/17 01:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	86-116	1		11/23/17 01:01	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	84-113	1		11/23/17 01:01	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		11/23/17 01:01	2037-26-5	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415080 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1911439 | Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/15/17 23:44	
Fluoride	mg/L	ND	0.10	11/15/17 23:44	
Sulfate	mg/L	ND	0.25	11/15/17 23:44	

LABORATORY CONTROL SAMPLE: 1911440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	92	80-120	
Fluoride	mg/L	.5	0.47	94	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911441 1911442

Parameter	Units	50184267006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	314	125	125	416	417	82	82	80-120	0	15	
Fluoride	mg/L	ND	.5	.5	0.49	0.49	80	81	80-120	1	15	
Sulfate	mg/L	1360	250	250	1580	1580	87	88	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416048 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1916403 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	11/19/17 23:25	
Fluoride	mg/L	ND	0.10	11/19/17 23:25	
Sulfate	mg/L	ND	0.25	11/19/17 23:25	

LABORATORY CONTROL SAMPLE: 1916404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	.5	0.48	95	80-120	
Sulfate	mg/L	2.5	2.4	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916405 1916406

Parameter	Units	50184455003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	1.2	1.2	5.5	5.5	103	102	80-120	0	15	
Fluoride	mg/L	0.69	.5	.5	1.2	1.2	102	100	80-120	1	15	
Sulfate	mg/L	24.7	25	25	47.9	47.6	93	91	80-120	1	15	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414282 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1907696 | Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/20/17 19:29	

LABORATORY CONTROL SAMPLE: 1907697

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: 1907698 1907699

Parameter	Units	50183794014 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	5.2	5.8	103	116	75-125	12	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 417248 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1921512 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	11/29/17 17:51	

LABORATORY CONTROL SAMPLE: 1921513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1921514 1921515

Parameter	Units	50184409002 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	2.4	2.1	47	43	75-125	9	20	M3

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414026
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50183793001, 50183793002

METHOD BLANK: 1906458
Matrix: Water
Associated Lab Samples: 50183793001, 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/16/17 11:22	
Cobalt	ug/L	ND	5.0	11/16/17 11:22	
Nickel	ug/L	ND	10.0	11/16/17 11:22	
Zinc	ug/L	ND	20.0	11/16/17 11:22	

LABORATORY CONTROL SAMPLE: 1906459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	996	100	80-120	
Cobalt	ug/L	1000	970	97	80-120	
Nickel	ug/L	1000	915	91	80-120	
Zinc	ug/L	1000	997	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1906460 1906461

Parameter	Units	50183793001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	57.2	1000	1000	1060	1070	101	101	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	953	951	95	95	75-125	0	20	
Nickel	ug/L	ND	1000	1000	895	892	89	89	75-125	0	20	
Zinc	ug/L	ND	1000	1000	959	961	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414131 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009

METHOD BLANK: 1906965 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/10/17 09:41	
Boron	ug/L	ND	100	11/10/17 09:41	
Calcium	ug/L	ND	500	11/10/17 09:41	
Cobalt	ug/L	ND	5.0	11/10/17 09:41	
Iron	ug/L	ND	50.0	11/10/17 09:41	
Magnesium	ug/L	ND	500	11/10/17 09:41	
Manganese	ug/L	ND	5.0	11/10/17 09:41	
Nickel	ug/L	ND	10.0	11/10/17 09:41	
Sodium	ug/L	ND	1000	11/10/17 09:41	
Total Hardness by 2340B	ug/L	ND	1000	11/10/17 09:41	
Zinc	ug/L	ND	20.0	11/10/17 09:41	

LABORATORY CONTROL SAMPLE: 1906966

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	999	100	80-120	
Boron	ug/L	1000	990	99	80-120	
Calcium	ug/L	10000	10500	105	80-120	
Cobalt	ug/L	1000	878	88	80-120	
Iron	ug/L	10000	10400	104	80-120	
Magnesium	ug/L	10000	9630	96	80-120	
Manganese	ug/L	1000	1010	101	80-120	
Nickel	ug/L	1000	972	97	80-120	
Sodium	ug/L	10000	9730	97	80-120	
Total Hardness by 2340B	ug/L	66200	65800	100	80-120	
Zinc	ug/L	1000	926	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1906967 1906968

Parameter	Units	50183795001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	376	1000	1000	1360	1370	98	100	75-125	1	20	
Boron	ug/L	302	1000	1000	1290	1290	99	99	75-125	0	20	
Calcium	ug/L	162000	10000	10000	170000	167000	80	50	75-125	2	20	P6
Cobalt	ug/L	ND	1000	1000	820	808	82	81	75-125	2	20	
Iron	ug/L	1320	10000	10000	11300	11400	99	100	75-125	1	20	
Magnesium	ug/L	78800	10000	10000	87300	85100	84	63	75-125	3	20	P6

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1906967 1906968

Parameter	Units	50183795001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	57.0	1000	1000	1030	1040	97	98	75-125	1	20	
Nickel	ug/L	17.4	1000	1000	917	913	90	90	75-125	0	20	
Sodium	ug/L	99300	10000	10000	109000	108000	96	84	75-125	1	20	
Total Hardness by 2340B	ug/L	728000	66200	66200	783000	767000	83	58	75-125	2	20	
Zinc	ug/L	ND	1000	1000	878	864	88	86	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414238
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50183795010

METHOD BLANK: 1907332
Matrix: Water
Associated Lab Samples: 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/13/17 23:47	
Boron	ug/L	ND	100	11/13/17 23:47	
Calcium	ug/L	ND	500	11/13/17 23:47	
Cobalt	ug/L	ND	5.0	11/13/17 23:47	
Iron	ug/L	ND	50.0	11/13/17 23:47	
Magnesium	ug/L	ND	500	11/13/17 23:47	
Manganese	ug/L	ND	5.0	11/13/17 23:47	
Nickel	ug/L	ND	10.0	11/13/17 23:47	
Sodium	ug/L	ND	1000	11/13/17 23:47	
Total Hardness by 2340B	ug/L	ND	1000	11/13/17 23:47	
Zinc	ug/L	ND	20.0	11/13/17 23:47	

LABORATORY CONTROL SAMPLE: 1907333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	989	99	80-120	
Boron	ug/L	1000	995	99	80-120	
Calcium	ug/L	10000	9660	97	80-120	
Cobalt	ug/L	1000	995	100	80-120	
Iron	ug/L	10000	9580	96	80-120	
Magnesium	ug/L	10000	9620	96	80-120	
Manganese	ug/L	1000	947	95	80-120	
Nickel	ug/L	1000	986	99	80-120	
Sodium	ug/L	10000	9830	98	80-120	
Total Hardness by 2340B	ug/L	66200	63700	96	80-120	
Zinc	ug/L	1000	996	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1907334 1907335

Parameter	Units	50183879001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	ND	1000	1000	982	976	97	97	75-125	1	20	
Boron	ug/L	3040	1000	1000	4010	3970	97	94	75-125	1	20	
Calcium	ug/L	509000	10000	10000	511000	508000	20	-15	75-125	1	20	E,P6
Cobalt	ug/L	ND	1000	1000	940	934	94	93	75-125	1	20	
Iron	ug/L	ND	10000	10000	9100	8920	91	89	75-125	2	20	
Magnesium	ug/L	127000	10000	10000	134000	133000	68	58	75-125	1	20	P6
Manganese	ug/L	1670	1000	1000	2560	2530	89	86	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1907334 1907335

Parameter	Units	50183879001 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	922	917	92	91	75-125	0	20	
Sodium	ug/L	502000	10000	10000	505000	506000	28	34	75-125	0	20	E,P6
Total Hardness by 2340B	ug/L	1800000	66200	66200	1830000	1820000	50	30	75-125	1	20	
Zinc	ug/L	ND	1000	1000	960	956	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415461 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50184447001, 50184447002, 50184447003

METHOD BLANK: 1913005 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/22/17 01:53	
Boron	ug/L	ND	100	11/22/17 01:53	
Calcium	ug/L	ND	500	11/22/17 01:53	
Cobalt	ug/L	ND	5.0	11/22/17 01:53	
Iron	ug/L	ND	50.0	11/22/17 01:53	
Magnesium	ug/L	ND	500	11/22/17 01:53	
Manganese	ug/L	ND	5.0	11/22/17 01:53	
Nickel	ug/L	ND	10.0	11/22/17 01:53	
Sodium	ug/L	ND	1000	11/22/17 01:53	
Total Hardness by 2340B	ug/L	ND	1000	11/22/17 01:53	
Zinc	ug/L	ND	20.0	11/22/17 01:53	

LABORATORY CONTROL SAMPLE: 1913006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	934	93	80-120	
Boron	ug/L	1000	944	94	80-120	
Calcium	ug/L	10000	9310	93	80-120	
Cobalt	ug/L	1000	937	94	80-120	
Iron	ug/L	10000	9110	91	80-120	
Magnesium	ug/L	10000	9290	93	80-120	
Manganese	ug/L	1000	899	90	80-120	
Nickel	ug/L	1000	954	95	80-120	
Sodium	ug/L	10000	9400	94	80-120	
Total Hardness by 2340B	ug/L	66200	61500	93	80-120	
Zinc	ug/L	1000	953	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913007 1913008

Parameter	Units	50184458001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	148	1000	1000	1080	1080	93	93	75-125	0	20	
Boron	ug/L	ND	1000	1000	1070	1070	99	98	75-125	0	20	
Calcium	ug/L	174000	10000	10000	183000	181000	96	76	75-125	1	20	
Cobalt	ug/L	ND	1000	1000	895	896	89	90	75-125	0	20	
Iron	ug/L	ND	10000	10000	9020	8910	90	89	75-125	1	20	
Magnesium	ug/L	16200	10000	10000	25200	25000	90	87	75-125	1	20	
Manganese	ug/L	128	1000	1000	1020	1010	89	88	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913007 1913008

Parameter	Units	50184458001 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	902	904	90	90	75-125	0	20	
Sodium	ug/L	167000	10000	10000	176000	176000	82	83	75-125	0	20	
Total Hardness by 2340B	ug/L	501000	66200	66200	562000	556000	92	83	75-125	1	20	
Zinc	ug/L	ND	1000	1000	936	938	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415732 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

METHOD BLANK: 1914601 Matrix: Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	11/27/17 12:47	
Boron	ug/L	ND	100	11/27/17 12:47	
Calcium	ug/L	ND	500	11/27/17 12:47	
Cobalt	ug/L	ND	5.0	11/27/17 12:47	
Iron	ug/L	ND	50.0	11/27/17 12:47	
Magnesium	ug/L	ND	500	11/27/17 12:47	
Manganese	ug/L	ND	5.0	11/27/17 12:47	
Nickel	ug/L	ND	10.0	11/27/17 12:47	
Sodium	ug/L	ND	1000	11/27/17 12:47	
Total Hardness by 2340B	ug/L	ND	1000	11/27/17 12:47	
Zinc	ug/L	ND	20.0	11/27/17 12:47	

LABORATORY CONTROL SAMPLE: 1914602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	993	99	80-120	
Boron	ug/L	1000	993	99	80-120	
Calcium	ug/L	10000	9670	97	80-120	
Cobalt	ug/L	1000	996	100	80-120	
Iron	ug/L	10000	9770	98	80-120	
Magnesium	ug/L	10000	9660	97	80-120	
Manganese	ug/L	1000	957	96	80-120	
Nickel	ug/L	1000	1000	100	80-120	
Sodium	ug/L	10000	9960	100	80-120	
Total Hardness by 2340B	ug/L	66200	63900	97	80-120	
Zinc	ug/L	1000	974	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914603 1914604

Parameter	Units	50184596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	180	1000	1000	1140	1140	96	96	75-125	1	20	
Boron	ug/L	235	1000	1000	1240	1220	100	99	75-125	1	20	
Calcium	ug/L	72100	10000	10000	78300	78900	63	69	75-125	1	20	P6
Cobalt	ug/L	ND	1000	1000	954	962	95	96	75-125	1	20	
Iron	ug/L	342	10000	10000	9740	9700	94	94	75-125	0	20	
Magnesium	ug/L	44200	10000	10000	51700	52000	75	78	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914603 1914604

Parameter	Units	50184596001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	34.9	1000	1000	959	957	92	92	75-125	0	20	
Nickel	ug/L	ND	1000	1000	951	955	95	95	75-125	0	20	
Sodium	ug/L	33700	10000	10000	43000	42600	94	89	75-125	1	20	
Total Hardness by 2340B	ug/L	362000	66200	66200	409000	411000	70	74	75-125	1	20	
Zinc	ug/L	ND	1000	1000	964	964	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414346
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Associated Lab Samples: 50183793001, 50183793002

METHOD BLANK: 1908252
Matrix: Water
Associated Lab Samples: 50183793001, 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	11/20/17 07:49	
Beryllium	ug/L	ND	2.0	11/20/17 07:49	
Cadmium	ug/L	ND	0.20	11/20/17 07:49	
Chromium	ug/L	ND	5.0	11/20/17 07:49	
Copper	ug/L	ND	5.0	11/20/17 07:49	
Lead	ug/L	ND	5.0	11/20/17 07:49	
Selenium	ug/L	ND	5.0	11/20/17 07:49	
Vanadium	ug/L	ND	10.0	11/20/17 07:49	

LABORATORY CONTROL SAMPLE: 1908253

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	40	39.7	99	80-120	
Beryllium	ug/L	40	38.4	96	80-120	
Cadmium	ug/L	40	41.0	103	80-120	
Chromium	ug/L	40	42.7	107	80-120	
Copper	ug/L	40	40.7	102	80-120	
Lead	ug/L	40	41.4	104	80-120	
Selenium	ug/L	40	39.7	99	80-120	
Vanadium	ug/L	40	42.4	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1908254 1908255

Parameter	Units	50183790026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	6.3	40	40	44.1	44.5	95	95	75-125	1	20	
Beryllium	ug/L	ND	40	40	39.2	39.5	98	99	75-125	1	20	
Cadmium	ug/L	ND	40	40	40.4	40.6	101	102	75-125	1	20	
Chromium	ug/L	ND	40	40	41.3	42.0	103	105	75-125	2	20	
Copper	ug/L	ND	40	40	37.5	37.7	93	94	75-125	1	20	
Lead	ug/L	ND	40	40	41.5	42.1	104	105	75-125	2	20	
Selenium	ug/L	ND	40	40	37.7	37.7	94	94	75-125	0	20	
Vanadium	ug/L	ND	40	40	42.1	43.0	105	107	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414500 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1908894 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/13/17 22:25	
Arsenic	ug/L	ND	5.0	11/13/17 22:25	
Beryllium	ug/L	ND	2.0	11/13/17 22:25	
Cadmium	ug/L	ND	0.20	11/13/17 22:25	
Chromium	ug/L	ND	5.0	11/13/17 22:25	
Copper	ug/L	ND	5.0	11/13/17 22:25	
Lead	ug/L	ND	5.0	11/13/17 22:25	
Selenium	ug/L	ND	5.0	11/13/17 22:25	
Silver	ug/L	ND	5.0	11/13/17 22:25	
Thallium	ug/L	ND	2.0	11/13/17 22:25	
Vanadium	ug/L	ND	10.0	11/13/17 22:25	

LABORATORY CONTROL SAMPLE: 1908895

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	43.2	108	80-120	
Arsenic	ug/L	40	38.8	97	80-120	
Beryllium	ug/L	40	40.0	100	80-120	
Cadmium	ug/L	40	40.8	102	80-120	
Chromium	ug/L	40	39.3	98	80-120	
Copper	ug/L	40	40.3	101	80-120	
Lead	ug/L	40	41.3	103	80-120	
Selenium	ug/L	40	39.5	99	80-120	
Silver	ug/L	40	40.8	102	80-120	
Thallium	ug/L	40	41.3	103	80-120	
Vanadium	ug/L	40	40.4	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1908896 1908897

Parameter	Units	50183705001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	<0.15	40	40	42.9	43.7	107	109	75-125	2	20	
Arsenic	ug/L	0.91J	40	40	40.0	40.8	98	100	75-125	2	20	
Beryllium	ug/L	0.064J	40	40	41.2	41.4	103	103	75-125	0	20	
Cadmium	ug/L	0.051J	40	40	39.9	40.5	100	101	75-125	2	20	
Chromium	ug/L	2.2	40	40	41.3	44.3	98	105	75-125	7	20	
Copper	ug/L	2.3	40	40	37.4	38.2	88	90	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1908896 1908897

Parameter	Units	50183705001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	1.2	40	40	42.1	42.5	102	103	75-125	1	20	
Selenium	ug/L	1.1	40	40	40.4	40.6	98	99	75-125	1	20	
Silver	ug/L	<0.066	40	40	38.6	39.6	96	99	75-125	3	20	
Thallium	ug/L	<0.13	40	40	41.8	42.0	104	105	75-125	1	20	
Vanadium	ug/L	3.0	40	40	44.0	46.3	102	108	75-125	5	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415687 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50184447001, 50184447002, 50184447003

METHOD BLANK: 1914298 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/28/17 06:43	
Arsenic	ug/L	ND	5.0	11/28/17 06:43	
Beryllium	ug/L	ND	2.0	11/28/17 16:05	
Cadmium	ug/L	ND	0.20	11/28/17 06:43	
Chromium	ug/L	ND	5.0	11/28/17 16:05	
Copper	ug/L	ND	5.0	11/28/17 16:05	
Lead	ug/L	ND	5.0	11/28/17 06:43	
Selenium	ug/L	ND	5.0	11/28/17 06:43	
Silver	ug/L	ND	5.0	11/28/17 06:43	
Thallium	ug/L	ND	2.0	11/28/17 06:43	
Vanadium	ug/L	ND	10.0	11/28/17 16:05	

LABORATORY CONTROL SAMPLE: 1914299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.0	105	80-120	
Arsenic	ug/L	40	36.3	91	80-120	
Beryllium	ug/L	40	41.6	104	80-120	
Cadmium	ug/L	40	39.4	99	80-120	
Chromium	ug/L	40	41.4	103	80-120	
Copper	ug/L	40	39.5	99	80-120	
Lead	ug/L	40	39.8	100	80-120	
Selenium	ug/L	40	39.2	98	80-120	
Silver	ug/L	40	39.6	99	80-120	
Thallium	ug/L	40	39.8	99	80-120	
Vanadium	ug/L	40	41.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914300 1914301

Parameter	Units	50184458005 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	43.7	44.4	109	111	75-125	2	20	
Arsenic	ug/L	26.1	40	40	66.1	66.2	100	100	75-125	0	20	
Beryllium	ug/L	ND	40	40	43.6	44.4	109	111	75-125	2	20	
Cadmium	ug/L	ND	40	40	38.7	40.3	97	101	75-125	4	20	
Chromium	ug/L	ND	40	40	39.7	40.0	98	99	75-125	1	20	
Copper	ug/L	ND	40	40	38.9	41.3	94	100	75-125	6	20	
Lead	ug/L	ND	40	40	41.0	41.4	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914300 1914301

Parameter	Units	50184458005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Selenium	ug/L	ND	40	40	39.2	43.5	94	105	75-125	10	20	
Silver	ug/L	ND	40	40	38.2	39.1	96	98	75-125	2	20	
Thallium	ug/L	ND	40	40	40.1	40.6	100	102	75-125	1	20	
Vanadium	ug/L	ND	40	40	42.7J	42.5J	106	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415967 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

METHOD BLANK: 1915814 Matrix: Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	11/27/17 14:55	
Arsenic	ug/L	ND	5.0	11/27/17 14:55	
Beryllium	ug/L	ND	2.0	11/27/17 14:55	
Cadmium	ug/L	ND	0.20	11/27/17 14:55	
Chromium	ug/L	ND	5.0	11/27/17 14:55	
Copper	ug/L	ND	5.0	11/27/17 14:55	
Lead	ug/L	ND	5.0	11/27/17 14:55	
Selenium	ug/L	ND	5.0	11/27/17 14:55	
Silver	ug/L	ND	5.0	11/27/17 14:55	
Thallium	ug/L	ND	2.0	11/27/17 14:55	
Vanadium	ug/L	ND	10.0	11/27/17 14:55	

LABORATORY CONTROL SAMPLE: 1915815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.9	105	80-120	
Arsenic	ug/L	40	37.6	94	80-120	
Beryllium	ug/L	40	38.2	95	80-120	
Cadmium	ug/L	40	40.5	101	80-120	
Chromium	ug/L	40	41.1	103	80-120	
Copper	ug/L	40	39.7	99	80-120	
Lead	ug/L	40	39.8	99	80-120	
Selenium	ug/L	40	36.3	91	80-120	
Silver	ug/L	40	39.1	98	80-120	
Thallium	ug/L	40	39.3	98	80-120	
Vanadium	ug/L	40	41.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915816 1915817

Parameter	Units	50184377003 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	42.9	43.2	107	108	75-125	1	20	
Arsenic	ug/L	ND	40	40	38.8	37.8	97	94	75-125	3	20	
Beryllium	ug/L	ND	40	40	38.0	38.3	95	96	75-125	1	20	
Cadmium	ug/L	ND	40	40	39.6	39.6	99	99	75-125	0	20	
Chromium	ug/L	ND	40	40	42.5	41.5	104	102	75-125	2	20	
Copper	ug/L	ND	40	40	36.3	36.4	90	90	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915816 1915817

Parameter	Units	50184377003 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	40.3	40.6	101	102	75-125	1	20	
Selenium	ug/L	ND	40	40	37.6	36.8	93	91	75-125	2	20	
Silver	ug/L	0.0018 mg/L	40	40	38.9	38.5	93	92	75-125	1	20	
Thallium	ug/L	ND	40	40	40.2	41.2	100	103	75-125	2	20	
Vanadium	ug/L	ND	40	40	43.0	42.2	107	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415186 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010, 50183795011

METHOD BLANK: 1911893 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010, 50183795011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,1-Dichloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,1-Dichloroethene	ug/L	ND	5.0	11/15/17 04:35	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/15/17 04:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/15/17 04:35	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/15/17 04:35	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/15/17 04:35	
1,2-Dichloroethane	ug/L	ND	5.0	11/15/17 04:35	
1,2-Dichloropropane	ug/L	ND	5.0	11/15/17 04:35	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/15/17 04:35	
2-Butanone (MEK)	ug/L	ND	10.0	11/15/17 04:35	
2-Hexanone	ug/L	ND	10.0	11/15/17 04:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/15/17 04:35	
Acetone	ug/L	ND	10.0	11/15/17 04:35	
Acrylonitrile	ug/L	ND	100	11/15/17 04:35	
Benzene	ug/L	ND	5.0	11/15/17 04:35	
Bromochloromethane	ug/L	ND	5.0	11/15/17 04:35	
Bromodichloromethane	ug/L	ND	5.0	11/15/17 04:35	
Bromoform	ug/L	ND	5.0	11/15/17 04:35	
Bromomethane	ug/L	ND	10.0	11/15/17 04:35	
Carbon disulfide	ug/L	ND	10.0	11/15/17 04:35	
Carbon tetrachloride	ug/L	ND	5.0	11/15/17 04:35	
Chlorobenzene	ug/L	ND	5.0	11/15/17 04:35	
Chloroethane	ug/L	ND	10.0	11/15/17 04:35	
Chloroform	ug/L	ND	5.0	11/15/17 04:35	
Chloromethane	ug/L	ND	10.0	11/15/17 04:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/15/17 04:35	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/15/17 04:35	
Dibromochloromethane	ug/L	ND	5.0	11/15/17 04:35	
Dibromomethane	ug/L	ND	10.0	11/15/17 04:35	
Ethylbenzene	ug/L	ND	5.0	11/15/17 04:35	
Iodomethane	ug/L	ND	5.0	11/15/17 04:35	
Methylene Chloride	ug/L	5.9	5.0	11/15/17 04:35	
Styrene	ug/L	ND	5.0	11/15/17 04:35	
Tetrachloroethene	ug/L	ND	5.0	11/15/17 04:35	
Toluene	ug/L	ND	5.0	11/15/17 04:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/15/17 04:35	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

METHOD BLANK: 1911893 Matrix: Water

Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010, 50183795011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/15/17 04:35	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/15/17 04:35	
Trichloroethene	ug/L	ND	5.0	11/15/17 04:35	
Trichlorofluoromethane	ug/L	ND	10.0	11/15/17 04:35	
Vinyl acetate	ug/L	ND	10.0	11/15/17 04:35	
Vinyl chloride	ug/L	ND	2.0	11/15/17 04:35	
Xylene (Total)	ug/L	ND	5.0	11/15/17 04:35	
4-Bromofluorobenzene (S)	%.	101	84-113	11/15/17 04:35	
Dibromofluoromethane (S)	%.	103	86-116	11/15/17 04:35	
Toluene-d8 (S)	%.	98	86-111	11/15/17 04:35	

LABORATORY CONTROL SAMPLE: 1911894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.3	107	80-123	
1,1,1-Trichloroethane	ug/L	50	51.5	103	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	54.4	109	74-124	
1,1,2-Trichloroethane	ug/L	50	51.6	103	79-121	
1,1-Dichloroethane	ug/L	50	51.3	103	77-122	
1,1-Dichloroethene	ug/L	50	52.2	104	70-131	
1,2,3-Trichloropropane	ug/L	50	55.5	111	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	56.1	112	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	81-123	
1,2-Dichlorobenzene	ug/L	50	49.6	99	77-118	
1,2-Dichloroethane	ug/L	50	51.9	104	72-119	
1,2-Dichloropropane	ug/L	50	53.6	107	78-125	
1,4-Dichlorobenzene	ug/L	50	48.1	96	72-118	
2-Butanone (MEK)	ug/L	250	291	117	61-150	
2-Hexanone	ug/L	250	295	118	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	298	119	71-131	
Acetone	ug/L	250	258	103	39-166	
Acrylonitrile	ug/L	200	217	108	62-130	
Benzene	ug/L	50	52.3	105	79-120	
Bromochloromethane	ug/L	50	51.9	104	69-136	
Bromodichloromethane	ug/L	50	50.3	101	76-125	
Bromoform	ug/L	50	53.6	107	69-119	
Bromomethane	ug/L	50	43.4	87	27-161	
Carbon disulfide	ug/L	50	49.8	100	60-130	
Carbon tetrachloride	ug/L	50	50.4	101	74-132	
Chlorobenzene	ug/L	50	51.0	102	77-116	
Chloroethane	ug/L	50	46.0	92	51-132	
Chloroform	ug/L	50	50.9	102	76-118	
Chloromethane	ug/L	50	51.2	102	46-126	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

LABORATORY CONTROL SAMPLE: 1911894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.7	101	74-126	
cis-1,3-Dichloropropene	ug/L	50	51.8	104	78-125	
Dibromochloromethane	ug/L	50	53.9	108	80-123	
Dibromomethane	ug/L	50	52.8	106	75-124	
Ethylbenzene	ug/L	50	52.5	105	80-123	
Iodomethane	ug/L	100	110	110	43-156	
Methylene Chloride	ug/L	50	53.3	107	62-126	
Styrene	ug/L	50	52.3	105	81-125	
Tetrachloroethene	ug/L	50	47.6	95	74-119	
Toluene	ug/L	50	51.9	104	77-117	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	74-128	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	201	100	42-134	
Trichloroethene	ug/L	50	52.4	105	75-119	
Trichlorofluoromethane	ug/L	50	51.1	102	57-152	
Vinyl acetate	ug/L	200	207	103	71-148	
Vinyl chloride	ug/L	50	50.4	101	62-137	
Xylene (Total)	ug/L	150	153	102	79-121	
4-Bromofluorobenzene (S)	%.			100	84-113	
Dibromofluoromethane (S)	%.			97	86-116	
Toluene-d8 (S)	%.			100	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911895 1911896

Parameter	Units	50183795001 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	54.7	54.1	109	108	48-143	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.5	54.5	111	109	52-142	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	56.1	54.6	112	109	48-143	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	55.0	54.5	110	109	51-139	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	55.0	54.2	110	108	53-139	1	20	
1,1-Dichloroethene	ug/L	ND	50	50	57.0	55.8	114	112	50-149	2	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	56.2	56.3	112	113	49-149	0	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	53.7	54.3	107	109	35-137	1	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	57.3	56.1	115	112	54-141	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	51.2	51.0	102	102	33-142	0	20	
1,2-Dichloroethane	ug/L	ND	50	50	56.1	54.3	112	109	47-138	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	57.1	56.8	114	114	55-142	1	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	48.7	48.9	97	98	27-140	0	20	
2-Butanone (MEK)	ug/L	ND	250	250	298	291	119	116	39-159	2	20	
2-Hexanone	ug/L	ND	250	250	304	299	122	120	47-151	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	310	306	124	122	48-146	1	20	
Acetone	ug/L	ND	250	250	271	265	108	106	31-152	2	20	
Acrylonitrile	ug/L	ND	200	200	231	224	115	112	42-143	3	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1911895 1911896

Parameter	Units	50183795001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	55.6	55.5	111	111	57-136	0	20	
Bromochloromethane	ug/L	ND	50	50	54.5	52.7	109	105	50-145	3	20	
Bromodichloromethane	ug/L	ND	50	50	54.2	53.2	108	106	49-142	2	20	
Bromoform	ug/L	ND	50	50	54.6	53.4	109	107	39-131	2	20	
Bromomethane	ug/L	ND	50	50	43.6	44.5	85	87	10-162	2	20	
Carbon disulfide	ug/L	ND	50	50	54.8	53.6	110	107	34-142	2	20	
Carbon tetrachloride	ug/L	ND	50	50	53.6	52.9	107	106	47-150	1	20	
Chlorobenzene	ug/L	ND	50	50	53.5	53.4	107	107	42-138	0	20	
Chloroethane	ug/L	ND	50	50	50.5	48.9	101	98	34-148	3	20	
Chloroform	ug/L	ND	50	50	54.1	53.0	108	106	54-136	2	20	
Chloromethane	ug/L	ND	50	50	52.5	53.4	105	107	27-138	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.4	53.0	107	106	48-147	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.0	54.0	108	108	40-142	0	20	
Dibromochloromethane	ug/L	ND	50	50	56.4	55.5	113	111	46-143	2	20	
Dibromomethane	ug/L	ND	50	50	57.0	55.7	114	111	53-140	2	20	
Ethylbenzene	ug/L	ND	50	50	54.5	52.9	109	106	40-147	3	20	
Iodomethane	ug/L	ND	100	100	112	113	112	113	13-136	2	20	
Methylene Chloride	ug/L	ND	50	50	55.4	53.0	111	106	40-138	5	20	
Styrene	ug/L	ND	50	50	53.0	54.4	106	109	34-149	3	20	
Tetrachloroethene	ug/L	ND	50	50	49.6	49.6	99	99	37-144	0	20	
Toluene	ug/L	ND	50	50	53.8	53.0	108	106	46-137	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	54.1	52.9	108	106	51-145	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	54.1	53.7	108	107	41-143	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	222	217	111	108	10-145	3	20	
Trichloroethene	ug/L	ND	50	50	53.6	54.0	107	108	45-139	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	54.4	54.8	109	110	42-164	1	20	
Vinyl acetate	ug/L	ND	200	200	171	166	85	83	10-149	3	20	
Vinyl chloride	ug/L	ND	50	50	55.6	54.3	111	109	43-154	2	20	
Xylene (Total)	ug/L	ND	150	150	161	160	107	107	37-146	1	20	
4-Bromofluorobenzene (S)	%.						102	100	84-113			
Dibromofluoromethane (S)	%.						101	98	86-116			
Toluene-d8 (S)	%.						100	99	86-111			

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416114 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50183793001, 50183793002

METHOD BLANK: 1916590 | Matrix: Water
Associated Lab Samples: 50183793001, 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/19/17 22:22	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/19/17 22:22	
1,2-Dichloroethane	ug/L	ND	5.0	11/19/17 22:22	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/19/17 22:22	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/19/17 22:22	
2-Butanone (MEK)	ug/L	ND	10.0	11/19/17 22:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/19/17 22:22	
Acetone	ug/L	ND	10.0	11/19/17 22:22	
Benzene	ug/L	ND	5.0	11/19/17 22:22	
Ethylbenzene	ug/L	ND	5.0	11/19/17 22:22	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/19/17 22:22	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/19/17 22:22	
n-Butyl chloride	ug/L	ND	5.0	11/19/17 22:22	N2
p-Isopropyltoluene	ug/L	ND	5.0	11/19/17 22:22	
Tetrahydrofuran	ug/L	ND	100	11/19/17 22:22	N2
Toluene	ug/L	ND	5.0	11/19/17 22:22	
Xylene (Total)	ug/L	ND	5.0	11/19/17 22:22	
4-Bromofluorobenzene (S)	%.	96	84-113	11/19/17 22:22	
Dibromofluoromethane (S)	%.	97	86-116	11/19/17 22:22	
Toluene-d8 (S)	%.	98	86-111	11/19/17 22:22	

LABORATORY CONTROL SAMPLE: 1916591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	47.7	95	76-125	
1,2-Dichlorobenzene	ug/L	50	50.2	100	77-118	
1,2-Dichloroethane	ug/L	50	42.5	85	72-119	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	79-123	
1,4-Dichlorobenzene	ug/L	50	48.2	96	72-118	
2-Butanone (MEK)	ug/L	250	276	111	61-150	
4-Methyl-2-pentanone (MIBK)	ug/L	250	284	114	71-131	
Acetone	ug/L	250	253	101	39-166	
Benzene	ug/L	50	51.8	104	79-120	
Ethylbenzene	ug/L	50	48.7	97	80-123	
Isopropylbenzene (Cumene)	ug/L	50	48.3	97	80-122	
Methyl-tert-butyl ether	ug/L	50	50.7	101	63-131	
n-Butyl chloride	ug/L	50	56.5	113	70-130	N2
p-Isopropyltoluene	ug/L	50	49.2	98	79-124	
Tetrahydrofuran	ug/L	50	56.2J	112	50-150	N2
Toluene	ug/L	50	49.1	98	77-117	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

LABORATORY CONTROL SAMPLE: 1916591

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	148	99	79-121	
4-Bromofluorobenzene (S)	%.			96	84-113	
Dibromofluoromethane (S)	%.			98	86-116	
Toluene-d8 (S)	%.			96	86-111	

MATRIX SPIKE SAMPLE: 1916593

Parameter	Units	50184026006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	50	35.9	72	33-150	
1,2-Dichlorobenzene	ug/L	ND	50	37.9	76	33-142	
1,2-Dichloroethane	ug/L	ND	50	36.1	72	47-138	
1,3,5-Trimethylbenzene	ug/L	ND	50	35.9	72	31-150	
1,4-Dichlorobenzene	ug/L	ND	50	36.0	72	27-140	
2-Butanone (MEK)	ug/L	ND	250	218	87	39-159	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	222	89	48-146	
Acetone	ug/L	ND	250	197	75	31-152	
Benzene	ug/L	ND	50	45.0	90	57-136	
Ethylbenzene	ug/L	ND	50	40.0	80	40-147	
Isopropylbenzene (Cumene)	ug/L	ND	50	38.4	77	37-151	
Methyl-tert-butyl ether	ug/L	ND	50	43.5	84	46-147	
n-Butyl chloride	ug/L	ND	50	50.5	101	70-130	N2
p-Isopropyltoluene	ug/L	ND	50	34.6	69	25-156	
Tetrahydrofuran	ug/L	ND	50	51.3J	89	50-150	N2
Toluene	ug/L	ND	50	41.4	83	46-137	
Xylene (Total)	ug/L	ND	150	120	80	37-146	
4-Bromofluorobenzene (S)	%.				97	84-113	
Dibromofluoromethane (S)	%.				96	86-116	
Toluene-d8 (S)	%.				96	86-111	

SAMPLE DUPLICATE: 1916592

Parameter	Units	50184026005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	ND		20	
1,2-Dichlorobenzene	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	14.0		20	
Benzene	ug/L	ND	.49J		20	
Ethylbenzene	ug/L	ND	ND		20	
Isopropylbenzene (Cumene)	ug/L	ND	ND		20	
Methyl-tert-butyl ether	ug/L	ND	.57J		20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

SAMPLE DUPLICATE: 1916592

Parameter	Units	50184026005 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Butyl chloride	ug/L	ND	ND		20	N2
p-Isopropyltoluene	ug/L	ND	ND		20	
Tetrahydrofuran	ug/L	ND	76.4J		20	N2
Toluene	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	96	96	0		
Dibromofluoromethane (S)	%.	97	97	0		
Toluene-d8 (S)	%.	97	97	1		

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416583 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 50184447001, 50184447002

METHOD BLANK: 1918736 | Matrix: Water
Associated Lab Samples: 50184447001, 50184447002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,1-Dichloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,1-Dichloroethene	ug/L	ND	5.0	11/21/17 16:25	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/21/17 16:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/21/17 16:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/21/17 16:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/21/17 16:25	
1,2-Dichloroethane	ug/L	ND	5.0	11/21/17 16:25	
1,2-Dichloropropane	ug/L	ND	5.0	11/21/17 16:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/21/17 16:25	
2-Butanone (MEK)	ug/L	ND	10.0	11/21/17 16:25	
2-Hexanone	ug/L	ND	10.0	11/21/17 16:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/21/17 16:25	
Acetone	ug/L	ND	10.0	11/21/17 16:25	
Acrylonitrile	ug/L	ND	100	11/21/17 16:25	
Benzene	ug/L	ND	5.0	11/21/17 16:25	
Bromochloromethane	ug/L	ND	5.0	11/21/17 16:25	
Bromodichloromethane	ug/L	ND	5.0	11/21/17 16:25	
Bromoform	ug/L	ND	5.0	11/21/17 16:25	
Bromomethane	ug/L	ND	10.0	11/21/17 16:25	
Carbon disulfide	ug/L	ND	10.0	11/21/17 16:25	
Carbon tetrachloride	ug/L	ND	5.0	11/21/17 16:25	
Chlorobenzene	ug/L	ND	5.0	11/21/17 16:25	
Chloroethane	ug/L	ND	10.0	11/21/17 16:25	
Chloroform	ug/L	ND	5.0	11/21/17 16:25	
Chloromethane	ug/L	ND	10.0	11/21/17 16:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/21/17 16:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/21/17 16:25	
Dibromochloromethane	ug/L	ND	5.0	11/21/17 16:25	
Dibromomethane	ug/L	ND	10.0	11/21/17 16:25	
Ethylbenzene	ug/L	ND	5.0	11/21/17 16:25	
Iodomethane	ug/L	ND	5.0	11/21/17 16:25	
Methylene Chloride	ug/L	7.4	5.0	11/21/17 16:25	
Styrene	ug/L	ND	5.0	11/21/17 16:25	
Tetrachloroethene	ug/L	ND	5.0	11/21/17 16:25	
Toluene	ug/L	ND	5.0	11/21/17 16:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/21/17 16:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/21/17 16:25	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

METHOD BLANK: 1918736 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/21/17 16:25	
Trichloroethene	ug/L	ND	5.0	11/21/17 16:25	
Trichlorofluoromethane	ug/L	ND	10.0	11/21/17 16:25	
Vinyl acetate	ug/L	ND	10.0	11/21/17 16:25	
Vinyl chloride	ug/L	ND	2.0	11/21/17 16:25	
Xylene (Total)	ug/L	ND	5.0	11/21/17 16:25	
4-Bromofluorobenzene (S)	%.	97	84-113	11/21/17 16:25	
Dibromofluoromethane (S)	%.	100	86-116	11/21/17 16:25	
Toluene-d8 (S)	%.	101	86-111	11/21/17 16:25	

LABORATORY CONTROL SAMPLE: 1918737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	80-123	
1,1,1-Trichloroethane	ug/L	50	53.0	106	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	57.9	116	74-124	
1,1,2-Trichloroethane	ug/L	50	51.0	102	79-121	
1,1-Dichloroethane	ug/L	50	54.6	109	77-122	
1,1-Dichloroethene	ug/L	50	56.4	113	70-131	
1,2,3-Trichloropropane	ug/L	50	60.9	122	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	57.3	115	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	56.5	113	81-123	
1,2-Dichlorobenzene	ug/L	50	55.1	110	77-118	
1,2-Dichloroethane	ug/L	50	50.6	101	72-119	
1,2-Dichloropropane	ug/L	50	56.3	113	78-125	
1,4-Dichlorobenzene	ug/L	50	53.1	106	72-118	
2-Butanone (MEK)	ug/L	250	287	115	61-150	
2-Hexanone	ug/L	250	293	117	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	255	102	71-131	
Acetone	ug/L	250	358	143	39-166	
Acrylonitrile	ug/L	200	218	109	62-130	
Benzene	ug/L	50	54.3	109	79-120	
Bromochloromethane	ug/L	50	50.4	101	69-136	
Bromodichloromethane	ug/L	50	51.9	104	76-125	
Bromoform	ug/L	50	51.7	103	69-119	
Bromomethane	ug/L	50	57.6	115	27-161	
Carbon disulfide	ug/L	50	55.5	111	60-130	
Carbon tetrachloride	ug/L	50	52.6	105	74-132	
Chlorobenzene	ug/L	50	53.7	107	77-116	
Chloroethane	ug/L	50	52.4	105	51-132	
Chloroform	ug/L	50	53.8	108	76-118	
Chloromethane	ug/L	50	53.1	106	46-126	
cis-1,2-Dichloroethene	ug/L	50	53.2	106	74-126	
cis-1,3-Dichloropropene	ug/L	50	55.0	110	78-125	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

LABORATORY CONTROL SAMPLE: 1918737

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	55.0	110	80-123	
Dibromomethane	ug/L	50	54.5	109	75-124	
Ethylbenzene	ug/L	50	51.1	102	80-123	
Iodomethane	ug/L	100	119	119	43-156	
Methylene Chloride	ug/L	50	70.8	142	62-126	L1
Styrene	ug/L	50	52.9	106	81-125	
Tetrachloroethene	ug/L	50	53.2	106	74-119	
Toluene	ug/L	50	54.6	109	77-117	
trans-1,2-Dichloroethene	ug/L	50	54.2	108	74-128	
trans-1,3-Dichloropropene	ug/L	50	54.4	109	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	208	104	42-134	
Trichloroethene	ug/L	50	54.0	108	75-119	
Trichlorofluoromethane	ug/L	50	55.3	111	57-152	
Vinyl acetate	ug/L	200	196	98	71-148	
Vinyl chloride	ug/L	50	60.2	120	62-137	
Xylene (Total)	ug/L	150	152	102	79-121	
4-Bromofluorobenzene (S)	%.			100	84-113	
Dibromofluoromethane (S)	%.			102	86-116	
Toluene-d8 (S)	%.			101	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919528 1919529

Parameter	Units	50184624001 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	54.1	50.6	108	101	48-143	7	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	52.0	51.0	104	102	52-142	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	63.2	57.1	126	114	48-143	10	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	58.7	52.4	117	105	51-139	11	20	
1,1-Dichloroethane	ug/L	ND	50	50	55.5	54.4	111	109	53-139	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.8	53.7	106	107	50-149	2	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	66.9	59.6	134	119	49-149	11	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	60.6	51.2	121	102	35-137	17	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	60.2	61.7	120	123	54-141	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.5	50.6	107	101	33-142	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	56.4	54.5	113	109	47-138	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	55.5	56.5	111	113	55-142	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	50.7	48.1	101	96	27-140	5	20	
2-Butanone (MEK)	ug/L	ND	250	250	292	258	117	103	39-159	13	20	
2-Hexanone	ug/L	ND	250	250	326	295	130	118	47-151	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	290	266	116	107	48-146	8	20	
Acetone	ug/L	ND	250	250	301	286	120	114	31-152	5	20	
Acrylonitrile	ug/L	ND	200	200	245	241	123	121	42-143	2	20	
Benzene	ug/L	ND	50	50	54.7	54.4	109	109	57-136	1	20	
Bromochloromethane	ug/L	ND	50	50	58.6	58.7	117	117	50-145	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919528 1919529

Parameter	Units	50184624001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromodichloromethane	ug/L	ND	50	50	52.9	53.5	106	107	49-142	1	20	
Bromoform	ug/L	ND	50	50	53.5	50.5	107	101	39-131	6	20	
Bromomethane	ug/L	ND	50	50	49.1	49.4	98	99	10-162	1	20	
Carbon disulfide	ug/L	ND	50	50	53.8	53.8	108	108	34-142	0	20	
Carbon tetrachloride	ug/L	ND	50	50	49.3	48.8	99	98	47-150	1	20	
Chlorobenzene	ug/L	ND	50	50	53.6	52.1	107	104	42-138	3	20	
Chloroethane	ug/L	ND	50	50	51.1	50.0	102	100	34-148	2	20	
Chloroform	ug/L	ND	50	50	53.1	56.0	106	112	54-136	5	20	
Chloromethane	ug/L	ND	50	50	50.2	51.1	100	102	27-138	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.3	51.4	107	103	48-147	4	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	56.6	55.1	113	110	40-142	3	20	
Dibromochloromethane	ug/L	ND	50	50	56.3	55.0	113	110	46-143	2	20	
Dibromomethane	ug/L	ND	50	50	59.6	58.9	119	118	53-140	1	20	
Ethylbenzene	ug/L	ND	50	50	49.6	48.1	99	96	40-147	3	20	
Iodomethane	ug/L	ND	100	100	123	127	123	127	13-136	4	20	
Methylene Chloride	ug/L	8.7	50	50	63.8	62.0	110	107	40-138	3	20	
Styrene	ug/L	ND	50	50	53.0	50.9	106	102	34-149	4	20	
Tetrachloroethene	ug/L	ND	50	50	52.4	50.2	105	100	37-144	4	20	
Toluene	ug/L	ND	50	50	53.3	52.4	107	105	46-137	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.5	52.5	107	105	51-145	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	55.7	53.5	111	107	41-143	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	250	227	125	114	10-145	10	20	
Trichloroethene	ug/L	ND	50	50	52.6	54.2	105	108	45-139	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	52.5	51.7	105	103	42-164	2	20	
Vinyl acetate	ug/L	ND	200	200	220	210	110	105	10-149	5	20	
Vinyl chloride	ug/L	ND	50	50	56.1	57.1	112	114	43-154	2	20	
Xylene (Total)	ug/L	ND	150	150	150	147	100	98	37-146	2	20	
4-Bromofluorobenzene (S)	%.						102	101	84-113			
Dibromofluoromethane (S)	%.						100	99	86-116			
Toluene-d8 (S)	%.						101	101	86-111			

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416843 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50184447003, 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009, 50184455010

METHOD BLANK: 1919998 Matrix: Water
Associated Lab Samples: 50184447003, 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009, 50184455010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,1,1-Trichloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,1-Dichloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,1-Dichloroethene	ug/L	ND	5.0	11/22/17 17:01	
1,2,3-Trichloropropane	ug/L	ND	5.0	11/22/17 17:01	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	11/22/17 17:01	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	11/22/17 17:01	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	11/22/17 17:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	11/22/17 17:01	
1,2-Dichloroethane	ug/L	ND	5.0	11/22/17 17:01	
1,2-Dichloropropane	ug/L	ND	5.0	11/22/17 17:01	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	11/22/17 17:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	11/22/17 17:01	
2-Butanone (MEK)	ug/L	ND	10.0	11/22/17 17:01	
2-Hexanone	ug/L	ND	10.0	11/22/17 17:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/22/17 17:01	
Acetone	ug/L	ND	10.0	11/22/17 17:01	
Acrylonitrile	ug/L	ND	100	11/22/17 17:01	
Benzene	ug/L	ND	5.0	11/22/17 17:01	
Bromochloromethane	ug/L	ND	5.0	11/22/17 17:01	
Bromodichloromethane	ug/L	ND	5.0	11/22/17 17:01	
Bromoform	ug/L	ND	5.0	11/22/17 17:01	
Bromomethane	ug/L	ND	10.0	11/22/17 17:01	
Carbon disulfide	ug/L	ND	10.0	11/22/17 17:01	
Carbon tetrachloride	ug/L	ND	5.0	11/22/17 17:01	
Chlorobenzene	ug/L	ND	5.0	11/22/17 17:01	
Chloroethane	ug/L	ND	10.0	11/22/17 17:01	
Chloroform	ug/L	ND	5.0	11/22/17 17:01	
Chloromethane	ug/L	ND	10.0	11/22/17 17:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/22/17 17:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	11/22/17 17:01	
Dibromochloromethane	ug/L	ND	5.0	11/22/17 17:01	
Dibromomethane	ug/L	ND	10.0	11/22/17 17:01	
Ethylbenzene	ug/L	ND	5.0	11/22/17 17:01	
Iodomethane	ug/L	ND	5.0	11/22/17 17:01	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	11/22/17 17:01	
Methyl-tert-butyl ether	ug/L	ND	5.0	11/22/17 17:01	
Methylene Chloride	ug/L	6.6	5.0	11/22/17 17:01	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

METHOD BLANK: 1919998 Matrix: Water

Associated Lab Samples: 50184447003, 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009, 50184455010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Butyl chloride	ug/L	ND	5.0	11/22/17 17:01	N2
p-Isopropyltoluene	ug/L	ND	5.0	11/22/17 17:01	
Styrene	ug/L	ND	5.0	11/22/17 17:01	
Tetrachloroethene	ug/L	ND	5.0	11/22/17 17:01	
Tetrahydrofuran	ug/L	ND	100	11/22/17 17:01	N2
Toluene	ug/L	ND	5.0	11/22/17 17:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/22/17 17:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	11/22/17 17:01	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	11/22/17 17:01	
Trichloroethene	ug/L	ND	5.0	11/22/17 17:01	
Trichlorofluoromethane	ug/L	ND	10.0	11/22/17 17:01	
Vinyl acetate	ug/L	ND	10.0	11/22/17 17:01	
Vinyl chloride	ug/L	ND	2.0	11/22/17 17:01	
Xylene (Total)	ug/L	ND	5.0	11/22/17 17:01	
4-Bromofluorobenzene (S)	%.	96	84-113	11/22/17 17:01	
Dibromofluoromethane (S)	%.	102	86-116	11/22/17 17:01	
Toluene-d8 (S)	%.	95	86-111	11/22/17 17:01	

LABORATORY CONTROL SAMPLE: 1919999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.4	99	80-123	
1,1,1-Trichloroethane	ug/L	50	44.1	88	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	74-124	
1,1,2-Trichloroethane	ug/L	50	42.2	84	79-121	
1,1-Dichloroethane	ug/L	50	47.5	95	77-122	
1,1-Dichloroethene	ug/L	50	50.3	101	70-131	
1,2,3-Trichloropropane	ug/L	50	51.1	102	79-128	
1,2,4-Trimethylbenzene	ug/L	50	46.5	93	76-125	
1,2-Dibromo-3-chloropropane	ug/L	50	43.4	87	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	81-123	
1,2-Dichlorobenzene	ug/L	50	47.6	95	77-118	
1,2-Dichloroethane	ug/L	50	43.9	88	72-119	
1,2-Dichloropropane	ug/L	50	50.9	102	78-125	
1,3,5-Trimethylbenzene	ug/L	50	47.6	95	79-123	
1,4-Dichlorobenzene	ug/L	50	47.2	94	72-118	
2-Butanone (MEK)	ug/L	250	272	109	61-150	
2-Hexanone	ug/L	250	233	93	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	224	90	71-131	
Acetone	ug/L	250	345	138	39-166	
Acrylonitrile	ug/L	200	205	103	62-130	
Benzene	ug/L	50	49.5	99	79-120	
Bromochloromethane	ug/L	50	50.7	101	69-136	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

LABORATORY CONTROL SAMPLE: 1919999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	45.1	90	76-125	
Bromoform	ug/L	50	46.1	92	69-119	
Bromomethane	ug/L	50	45.3	91	27-161	
Carbon disulfide	ug/L	50	48.7	97	60-130	
Carbon tetrachloride	ug/L	50	46.6	93	74-132	
Chlorobenzene	ug/L	50	49.1	98	77-116	
Chloroethane	ug/L	50	48.6	97	51-132	
Chloroform	ug/L	50	47.6	95	76-118	
Chloromethane	ug/L	50	49.1	98	46-126	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	74-126	
cis-1,3-Dichloropropene	ug/L	50	46.3	93	78-125	
Dibromochloromethane	ug/L	50	47.8	96	80-123	
Dibromomethane	ug/L	50	47.9	96	75-124	
Ethylbenzene	ug/L	50	45.0	90	80-123	
Iodomethane	ug/L	100	109	109	43-156	
Isopropylbenzene (Cumene)	ug/L	50	50.3	101	80-122	
Methyl-tert-butyl ether	ug/L	50	47.9	96	63-131	
Methylene Chloride	ug/L	50	62.2	124	62-126	
n-Butyl chloride	ug/L	50	49.5	99	70-130	N2
p-Isopropyltoluene	ug/L	50	47.6	95	79-124	
Styrene	ug/L	50	47.4	95	81-125	
Tetrachloroethene	ug/L	50	45.6	91	74-119	
Tetrahydrofuran	ug/L	50	45.9J	92	50-150	N2
Toluene	ug/L	50	45.8	92	77-117	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	74-128	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	188	94	42-134	
Trichloroethene	ug/L	50	48.0	96	75-119	
Trichlorofluoromethane	ug/L	50	49.6	99	57-152	
Vinyl acetate	ug/L	200	199	99	71-148	
Vinyl chloride	ug/L	50	52.9	106	62-137	
Xylene (Total)	ug/L	150	141	94	79-121	
4-Bromofluorobenzene (S)	%.			102	84-113	
Dibromofluoromethane (S)	%.			96	86-116	
Toluene-d8 (S)	%.			96	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920001 1920002

Parameter	Units	50184455005 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	100	100	65.5	75.2	65	75	48-143	14	20	
1,1,1-Trichloroethane	ug/L	ND	100	100	69.6	79.7	70	80	52-142	14	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	100	100	85.3	89.7	85	90	48-143	5	20	
1,1,2-Trichloroethane	ug/L	ND	100	100	72.2	76.6	72	77	51-139	6	20	
1,1-Dichloroethane	ug/L	ND	100	100	82.6	93.3	83	93	53-139	12	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920001 1920002

Parameter	Units	50184455005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	ND	100	100	87.7	98.9	88	99	50-149	12	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	85.7	93.1	86	93	49-149	8	20	
1,2,4-Trimethylbenzene	ug/L	ND	100	100	40.5	44.3	40	44	33-150	9	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	100	100	80.1	85.2	80	85	35-137	6	20	
1,2-Dibromoethane (EDB)	ug/L	ND	100	100	77.6	83.8	78	84	54-141	8	20	
1,2-Dichlorobenzene	ug/L	ND	100	100	50.7	56.3	51	56	33-142	11	20	
1,2-Dichloroethane	ug/L	ND	100	100	77.1	84.2	77	84	47-138	9	20	
1,2-Dichloropropane	ug/L	ND	100	100	84.5	91.0	84	91	55-142	7	20	
1,3,5-Trimethylbenzene	ug/L	ND	100	100	40.6	45.3	41	45	31-150	11	20	
1,4-Dichlorobenzene	ug/L	ND	100	100	46.4	49.6	46	50	27-140	7	20	
2-Butanone (MEK)	ug/L	ND	500	500	489	538	98	108	39-159	9	20	
2-Hexanone	ug/L	ND	500	500	468	512	94	102	47-151	9	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	500	500	469	511	94	102	48-146	9	20	
Acetone	ug/L	ND	500	500	527	563	105	113	31-152	6	20	
Acrylonitrile	ug/L	ND	400	400	446	472	112	118	42-143	6	20	
Benzene	ug/L	ND	100	100	74.4	82.6	74	83	57-136	11	20	
Bromochloromethane	ug/L	ND	100	100	84.3	89.8	84	90	50-145	6	20	
Bromodichloromethane	ug/L	ND	100	100	71.5	78.4	72	78	49-142	9	20	
Bromoform	ug/L	ND	100	100	79.5	86.0	80	86	39-131	8	20	
Bromomethane	ug/L	ND	100	100	65.7	86.9	66	87	10-162	28	20	R1
Carbon disulfide	ug/L	ND	100	100	74.8	85.5	75	86	34-142	13	20	
Carbon tetrachloride	ug/L	ND	100	100	70.2	80.0	70	80	47-150	13	20	
Chlorobenzene	ug/L	ND	100	100	52.8	59.6	53	60	42-138	12	20	
Chloroethane	ug/L	ND	100	100	92.7	107	93	107	34-148	14	20	
Chloroform	ug/L	ND	100	100	77.7	85.5	78	85	54-136	10	20	
Chloromethane	ug/L	ND	100	100	86.1	98.1	86	98	27-138	13	20	
cis-1,2-Dichloroethene	ug/L	ND	100	100	76.6	85.7	77	86	48-147	11	20	
cis-1,3-Dichloropropene	ug/L	ND	100	100	64.7	73.8	65	74	40-142	13	20	
Dibromochloromethane	ug/L	ND	100	100	74.3	83.4	74	83	46-143	11	20	
Dibromomethane	ug/L	ND	100	100	81.4	86.8	81	87	53-140	6	20	
Ethylbenzene	ug/L	ND	100	100	44.9	48.2	45	48	40-147	7	20	
Iodomethane	ug/L	ND	200	200	147	192	73	96	13-136	26	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	100	100	43.6	47.6	44	48	37-151	9	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	99.7	108	100	108	46-147	8	20	
Methylene Chloride	ug/L	ND	100	100	100	109	96	105	40-138	9	20	
n-Butyl chloride	ug/L	ND	100	100	67.7	77.8	68	78	70-130	14	20	M1,N2
p-Isopropyltoluene	ug/L	ND	100	100	34.1	37.3	34	37	25-156	9	20	
Styrene	ug/L	ND	100	100	49.7	56.7	50	57	34-149	13	20	
Tetrachloroethene	ug/L	ND	100	100	45.5	52.5	46	52	37-144	14	20	
Tetrahydrofuran	ug/L	ND	100	100	102	107	102	107	50-150	5	20	N2
Toluene	ug/L	ND	100	100	54.0	61.1	54	61	46-137	12	20	
trans-1,2-Dichloroethene	ug/L	ND	100	100	76.1	86.6	76	87	51-145	13	20	
trans-1,3-Dichloropropene	ug/L	ND	100	100	65.1	73.5	65	74	41-143	12	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	400	400	322	342	80	85	10-145	6	20	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1920001 1920002

Parameter	Units	50184455005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichloroethene	ug/L	ND	100	100	61.5	67.9	61	68	45-139	10	20	
Trichlorofluoromethane	ug/L	ND	100	100	77.2	87.8	77	88	42-164	13	20	
Vinyl acetate	ug/L	ND	400	400	313	328	78	82	10-149	5	20	
Vinyl chloride	ug/L	ND	100	100	95.0	110	95	110	43-154	15	20	
Xylene (Total)	ug/L	ND	300	300	137	154	46	51	37-146	11	20	
4-Bromofluorobenzene (S)	%.						99	102	84-113			
Dibromofluoromethane (S)	%.						100	103	86-116			
Toluene-d8 (S)	%.						93	96	86-111			

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 413922
QC Batch Method: EPA 3510
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Associated Lab Samples: 50183793001, 50183793002

METHOD BLANK: 1905724
Matrix: Water
Associated Lab Samples: 50183793001, 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	11/09/17 10:41	
Tetrachloro-m-xylene (S)	%.	67	10-108	11/09/17 10:41	

LABORATORY CONTROL SAMPLE: 1905725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			68	10-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1905726 1905727

Parameter	Units	50183500004 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)	%.						86	83	10-108			

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415472 Analysis Method: EPA 8082
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

METHOD BLANK: 1913110 Matrix: Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	11/16/17 19:51	
Tetrachloro-m-xylene (S)	%.	48	10-108	11/16/17 19:51	

LABORATORY CONTROL SAMPLE: 1913111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			52	10-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913112 1913113

Parameter	Units	50184368003 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)	%.						63	53	10-108			

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414093
QC Batch Method: EPA 3510
Analysis Method: EPA 8270
Analysis Description: 8270 Water Low Volume MSSV
Associated Lab Samples: 50183793001, 50183793002

METHOD BLANK: 1906835
Matrix: Water
Associated Lab Samples: 50183793001, 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/09/17 13:16	
Phenol	ug/L	ND	10.0	11/09/17 13:16	
2,4,6-Tribromophenol (S)	%.	72	26-140	11/09/17 13:16	
2-Fluorobiphenyl (S)	%.	66	10-127	11/09/17 13:16	
2-Fluorophenol (S)	%.	50	10-76	11/09/17 13:16	
Nitrobenzene-d5 (S)	%.	76	18-136	11/09/17 13:16	
p-Terphenyl-d14 (S)	%.	89	16-146	11/09/17 13:16	
Phenol-d5 (S)	%.	36	10-64	11/09/17 13:16	

LABORATORY CONTROL SAMPLE: 1906836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	67.4	67	27-105	
Phenol	ug/L	100	49.2	49	10-72	
2,4,6-Tribromophenol (S)	%.			74	26-140	
2-Fluorobiphenyl (S)	%.			64	10-127	
2-Fluorophenol (S)	%.			46	10-76	
Nitrobenzene-d5 (S)	%.			64	18-136	
p-Terphenyl-d14 (S)	%.			83	16-146	
Phenol-d5 (S)	%.			36	10-64	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415549 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water Low Volume MSSV
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

METHOD BLANK: 1913360 Matrix: Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004, 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	11/16/17 13:07	
Phenol	ug/L	ND	10.0	11/16/17 13:07	
2,4,6-Tribromophenol (S)	%.	75	26-140	11/16/17 13:07	
2-Fluorobiphenyl (S)	%.	61	10-127	11/16/17 13:07	
2-Fluorophenol (S)	%.	38	10-76	11/16/17 13:07	
Nitrobenzene-d5 (S)	%.	62	18-136	11/16/17 13:07	
p-Terphenyl-d14 (S)	%.	92	16-146	11/16/17 13:07	
Phenol-d5 (S)	%.	25	10-64	11/16/17 13:07	

LABORATORY CONTROL SAMPLE: 1913361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	67.3	67	27-105	
Phenol	ug/L	100	37.8	38	10-72	
2,4,6-Tribromophenol (S)	%.			88	26-140	
2-Fluorobiphenyl (S)	%.			78	10-127	
2-Fluorophenol (S)	%.			44	10-76	
Nitrobenzene-d5 (S)	%.			71	18-136	
p-Terphenyl-d14 (S)	%.			85	16-146	
Phenol-d5 (S)	%.			33	10-64	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414169 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005

METHOD BLANK: 1907082 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/09/17 12:23	

LABORATORY CONTROL SAMPLE: 1907083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	291	97	80-120	

SAMPLE DUPLICATE: 1907084

Parameter	Units	50183782014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76	81	6	10	

SAMPLE DUPLICATE: 1907085

Parameter	Units	50183795005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	564	558	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414310
QC Batch Method: SM 2540C
Associated Lab Samples: 50183795006

Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids

METHOD BLANK: 1907997
Matrix: Water
Associated Lab Samples: 50183795006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/09/17 15:51	

LABORATORY CONTROL SAMPLE: 1907998

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 1907999

Parameter	Units	50183795006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	741	736	1	10	

SAMPLE DUPLICATE: 1908000

Parameter	Units	50183897009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	245	260	6	10	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414523
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50183795007

METHOD BLANK: 1909078
Matrix: Water
Associated Lab Samples: 50183795007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/10/17 14:30	

LABORATORY CONTROL SAMPLE: 1909079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 1909080

Parameter	Units	50183790006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	277	273	1	10	

SAMPLE DUPLICATE: 1909081

Parameter	Units	50183795007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	497	505	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414524 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50183795008, 50183795009, 50183795010

METHOD BLANK: 1909086 Matrix: Water
Associated Lab Samples: 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/10/17 14:40	

LABORATORY CONTROL SAMPLE: 1909087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	284	95	80-120	

SAMPLE DUPLICATE: 1909088

Parameter	Units	50183914012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	413	414	0	10	

SAMPLE DUPLICATE: 1909089

Parameter	Units	50183782021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98	104	6	10	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415580 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1913491 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	11/16/17 10:41	

LABORATORY CONTROL SAMPLE: 1913492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	289	96	80-120	

SAMPLE DUPLICATE: 1913493

Parameter	Units	50184439017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	443	437	1	10	

SAMPLE DUPLICATE: 1913494

Parameter	Units	50184409003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1610	1690	4	10	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414502 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1908908 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/10/17 14:27	

LABORATORY CONTROL SAMPLE: 1908909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1908910 1908911

Parameter	Units	50183790027 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	61.3	61.0	107	106	90-110	0	20	

MATRIX SPIKE SAMPLE: 1908912

Parameter	Units	50183790028 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	61.0	105	90-110	

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415989 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 50184447001, 50184447002, 50184447003

METHOD BLANK: 1916039 | Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/17/17 17:56	

LABORATORY CONTROL SAMPLE: 1916040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916041 1916042

Parameter	Units	50184409001 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	27.7	50	50	74.2	79.6	93	104	90-110	7	20	

MATRIX SPIKE SAMPLE: 1916043

Parameter	Units	50184429001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	20.0	50	71.2	102	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416453
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 50184455001, 50184455003

METHOD BLANK: 1917782
Matrix: Water
Associated Lab Samples: 50184455001, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/21/17 17:00	

LABORATORY CONTROL SAMPLE: 1917783

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: 1917784 1917785

Parameter	Units	50184449001 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	15.8	50	50	71.2	62.6	111	94	90-110	13	20	M0

MATRIX SPIKE SAMPLE: 1917786

Parameter	Units	50184627001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	61.9	120	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416708
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 50184455002

METHOD BLANK: 1919196
Matrix: Water
Associated Lab Samples: 50184455002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	11/22/17 13:50	

LABORATORY CONTROL SAMPLE: 1919197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	486	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919198 1919199

Parameter	Units	50184385001 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	106	500	500	565	571	92	93	90-110	1	20	

MATRIX SPIKE SAMPLE: 1919290

Parameter	Units	50184455002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	155	500	630	95	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414248
QC Batch Method: SM 4500-S2-D
Analysis Method: SM 4500-S2-D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50183793001

METHOD BLANK: 1907431
Matrix: Water
Associated Lab Samples: 50183793001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/09/17 12:32	

LABORATORY CONTROL SAMPLE: 1907432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.46J	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1907433 1907434

Parameter	Units	50183728003 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	.3J	.32J	61	64	90-110	6	20	M3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1907435 1907436

Parameter	Units	50183762001 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	2.5	2.5	ND	ND	0	0	90-110		20	M3

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414496
QC Batch Method: SM 4500-S2-D
Analysis Method: SM 4500-S2-D
Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50183793002

METHOD BLANK: 1908868
Matrix: Water
Associated Lab Samples: 50183793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/10/17 13:39	

LABORATORY CONTROL SAMPLE: 1908869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.45J	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1908870 1908871

Parameter	Units	50183793002 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	6.3J	6.4J	93	94	90-110	1	20	

MATRIX SPIKE SAMPLE: 1908872

Parameter	Units	50183839016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.054J	11	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415662 Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004

METHOD BLANK: 1913968 Matrix: Water
Associated Lab Samples: 50184455001, 50184455002, 50184455003, 50184455004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/16/17 14:09	

LABORATORY CONTROL SAMPLE: 1913969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.5J	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913970 1913971

Parameter	Units	50184377003 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	.47J	.47J	94	95	90-110	1	20	

MATRIX SPIKE SAMPLE: 1913972

Parameter	Units	50184381001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.43J	86	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415676 Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

METHOD BLANK: 1914206 Matrix: Water
Associated Lab Samples: 50184455005, 50184455006, 50184455007, 50184455008, 50184455009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	11/16/17 15:00	

LABORATORY CONTROL SAMPLE: 1914207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.49J	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914208 1914209

Parameter	Units	50184384002 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	.31J	.28J	63	56	90-110	12	20	M3

MATRIX SPIKE SAMPLE: 1914210

Parameter	Units	50184455005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.28J	57	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414847 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1910504 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	11/13/17 14:33	

LABORATORY CONTROL SAMPLE: 1910505

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1910506 1910507

Parameter	Units	50183795001 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	10	10	9.8	9.9	98	99	90-110	1	20	D3

MATRIX SPIKE SAMPLE: 1910508

Parameter	Units	50184063002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	20	19.2	96	90-110	D3

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415927 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1915509 | Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	11/17/17 15:19	

LABORATORY CONTROL SAMPLE: 1915510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1915511 1915512

Parameter	Units	50184431001 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	100	100	98.2	98.4	98	98	90-110	0	20	

MATRIX SPIKE SAMPLE: 1915513

Parameter	Units	50184447003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.7	87	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414898 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1910721 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/14/17 12:50	

LABORATORY CONTROL SAMPLE: 1910722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.48	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1910723 1910724

Parameter	Units	50183816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	8.5	2.5	2.5	11.0	11.1	101	101	90-110	0	20	

MATRIX SPIKE SAMPLE: 1910725

Parameter	Units	50184006001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.28	.5	0.76	97	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416427 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1917698 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/22/17 10:11	

LABORATORY CONTROL SAMPLE: 1917699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.52	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1917700 1917701

Parameter	Units	50184430001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.23	.5	.5	0.73	0.75	101	106	90-110	3	20	

MATRIX SPIKE SAMPLE: 1917702

Parameter	Units	50184455003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.55	106	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 415830 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1914910 Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	11/17/17 14:57	

LABORATORY CONTROL SAMPLE: 1914911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1914912 1914913

Parameter	Units	50183790032 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	1.1	1	1	2.1	2.1	97	99	90-110	1	20	

MATRIX SPIKE SAMPLE: 1914914

Parameter	Units	50183769020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	176	25	202	105	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416240 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002

METHOD BLANK: 1916967 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	11/20/17 14:59	

LABORATORY CONTROL SAMPLE: 1916968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916969 1916970

Parameter	Units	50184439007 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	3.3	1	1	4.2	4.2	93	94	90-110	0	20	

MATRIX SPIKE SAMPLE: 1916971

Parameter	Units	50184439018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.6	1	3.6	98	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416242
QC Batch Method: SM 4500-NH3 G
Associated Lab Samples: 50184455003

Analysis Method: SM 4500-NH3 G
Analysis Description: 4500 Ammonia

METHOD BLANK: 1916972
Matrix: Water
Associated Lab Samples: 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	11/20/17 16:30	

LABORATORY CONTROL SAMPLE: 1916973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1916974 1916975

Parameter	Units	50184624001 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	10.6	5	5	15.4	15.3	97	95	90-110	0	20	

MATRIX SPIKE SAMPLE: 1916976

Parameter	Units	50184624017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1	0.93	93	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 414831 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

METHOD BLANK: 1910433 | Matrix: Water
Associated Lab Samples: 50183795001, 50183795002, 50183795003, 50183795004, 50183795005, 50183795006, 50183795007, 50183795008, 50183795009, 50183795010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/13/17 17:26	

LABORATORY CONTROL SAMPLE: 1910434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1910435 1910436

Parameter	Units	50183790033 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	3.4	10	10	13.2	14.0	97	105	80-120	6	20	

MATRIX SPIKE SAMPLE: 1910710

Parameter	Units	50183795010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.4	10	11.2	98	80-120	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

QC Batch: 416793 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

METHOD BLANK: 1919694 Matrix: Water
Associated Lab Samples: 50184447001, 50184447002, 50184447003, 50184455001, 50184455002, 50184455003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/22/17 18:15	

LABORATORY CONTROL SAMPLE: 1919695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1919696 1919697

Parameter	Units	50184385001 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	800	800	824	832	98	99	80-120	1	20	

MATRIX SPIKE SAMPLE: 1919698

Parameter	Units	50184794002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	100	100	98	80-120	

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QUALIFIERS

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

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.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 415549

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50183793001	PZ-209-SD		416593		
50183793002	PZ-209-SS		416593		
50183795001	PZ-111-SS		416594		
50183795002	PZ-111-SD		416594		
50183795003	PZ-109-SS		416594		
50183795004	PZ-106-SS		416594		
50183795005	PZ-106-SD		416594		
50183795007	PZ-205-SS		416594		
50183795008	PZ-100-SD		416594		
50183795009	PZ-100-SS		416594		
50183795010	PZ-201A-SS		416594		
50184447001	PZ-114-AS		416720		
50184447002	PZ-115-SS		416720		
50184447003	PZ-105-SS		416720		
50184455002	PZ-104-SD		416722		
50184455003	PZ-104-SS		416722		
50184455004	PZ-104-KS		416722		
50184455005	PZ-210-SD		416722		
50184455006	PZ-210-SS		416722		
50184455007	PZ-211-SD		416722		
50184455009	PZ-211-SS		416722		
50183793001	PZ-209-SD	EPA 3510	413922	EPA 8082	414155
50183793002	PZ-209-SS	EPA 3510	413922	EPA 8082	414155
50184455001	FB @ PZ-104-SD	EPA 3510	415472	EPA 8082	415643
50184455002	PZ-104-SD	EPA 3510	415472	EPA 8082	415643
50184455003	PZ-104-SS	EPA 3510	415472	EPA 8082	415643
50184455004	PZ-104-KS	EPA 3510	415472	EPA 8082	415643
50184455005	PZ-210-SD	EPA 3510	415472	EPA 8082	415643
50184455006	PZ-210-SS	EPA 3510	415472	EPA 8082	415643
50184455007	PZ-211-SD	EPA 3510	415472	EPA 8082	415643
50184455008	PZ-211-SD DUP	EPA 3510	415472	EPA 8082	415643
50184455009	PZ-211-SS	EPA 3510	415472	EPA 8082	415643
50183795001	PZ-111-SS	EPA 9056	415080		
50183795002	PZ-111-SD	EPA 9056	415080		
50183795003	PZ-109-SS	EPA 9056	415080		
50183795004	PZ-106-SS	EPA 9056	415080		
50183795005	PZ-106-SD	EPA 9056	415080		
50183795006	PZ-106-SD Dup	EPA 9056	415080		
50183795007	PZ-205-SS	EPA 9056	415080		
50183795008	PZ-100-SD	EPA 9056	415080		
50183795009	PZ-100-SS	EPA 9056	415080		
50183795010	PZ-201A-SS	EPA 9056	415080		
50184447001	PZ-114-AS	EPA 9056	416048		
50184447002	PZ-115-SS	EPA 9056	416048		
50184447003	PZ-105-SS	EPA 9056	416048		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184455001	FB @ PZ-104-SD	EPA 9056	416048		
50184455002	PZ-104-SD	EPA 9056	416048		
50184455003	PZ-104-SS	EPA 9056	416048		
50183793001	PZ-209-SD	EPA 3010	414026	EPA 6010	415581
50183793002	PZ-209-SS	EPA 3010	414026	EPA 6010	415581
50183795001	PZ-111-SS	EPA 3010	414131	EPA 6010	414432
50183795002	PZ-111-SD	EPA 3010	414131	EPA 6010	414432
50183795003	PZ-109-SS	EPA 3010	414131	EPA 6010	414432
50183795004	PZ-106-SS	EPA 3010	414131	EPA 6010	414432
50183795005	PZ-106-SD	EPA 3010	414131	EPA 6010	414432
50183795006	PZ-106-SD Dup	EPA 3010	414131	EPA 6010	414432
50183795007	PZ-205-SS	EPA 3010	414131	EPA 6010	414432
50183795008	PZ-100-SD	EPA 3010	414131	EPA 6010	414432
50183795009	PZ-100-SS	EPA 3010	414131	EPA 6010	414432
50183795010	PZ-201A-SS	EPA 3010	414238	EPA 6010	414935
50184447001	PZ-114-AS	EPA 3010	415461	EPA 6010	416628
50184447002	PZ-115-SS	EPA 3010	415461	EPA 6010	416628
50184447003	PZ-105-SS	EPA 3010	415461	EPA 6010	416628
50184455001	FB @ PZ-104-SD	EPA 3010	415732	EPA 6010	416983
50184455002	PZ-104-SD	EPA 3010	415732	EPA 6010	416983
50184455003	PZ-104-SS	EPA 3010	415732	EPA 6010	416983
50184455004	PZ-104-KS	EPA 3010	415732	EPA 6010	416983
50184455005	PZ-210-SD	EPA 3010	415732	EPA 6010	416983
50184455006	PZ-210-SS	EPA 3010	415732	EPA 6010	416983
50184455007	PZ-211-SD	EPA 3010	415732	EPA 6010	416983
50184455008	PZ-211-SD DUP	EPA 3010	415732	EPA 6010	416983
50184455009	PZ-211-SS	EPA 3010	415732	EPA 6010	416983
50183793001	PZ-209-SD	EPA 200.2	414346	EPA 6020	416093
50183793002	PZ-209-SS	EPA 200.2	414346	EPA 6020	416093
50183795001	PZ-111-SS	EPA 200.2	414500	EPA 6020	414874
50183795002	PZ-111-SD	EPA 200.2	414500	EPA 6020	414874
50183795003	PZ-109-SS	EPA 200.2	414500	EPA 6020	414874
50183795004	PZ-106-SS	EPA 200.2	414500	EPA 6020	414874
50183795005	PZ-106-SD	EPA 200.2	414500	EPA 6020	414874
50183795006	PZ-106-SD Dup	EPA 200.2	414500	EPA 6020	414874
50183795007	PZ-205-SS	EPA 200.2	414500	EPA 6020	414874
50183795008	PZ-100-SD	EPA 200.2	414500	EPA 6020	414874
50183795009	PZ-100-SS	EPA 200.2	414500	EPA 6020	414874
50183795010	PZ-201A-SS	EPA 200.2	414500	EPA 6020	414874
50184447001	PZ-114-AS	EPA 200.2	415687	EPA 6020	416001
50184447002	PZ-115-SS	EPA 200.2	415687	EPA 6020	416001
50184447003	PZ-105-SS	EPA 200.2	415687	EPA 6020	416001
50184455001	FB @ PZ-104-SD	EPA 200.2	415967	EPA 6020	416436
50184455002	PZ-104-SD	EPA 200.2	415967	EPA 6020	416436

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184455003	PZ-104-SS	EPA 200.2	415967	EPA 6020	416436
50184455004	PZ-104-KS	EPA 200.2	415967	EPA 6020	416436
50184455005	PZ-210-SD	EPA 200.2	415967	EPA 6020	416436
50184455006	PZ-210-SS	EPA 200.2	415967	EPA 6020	416436
50184455007	PZ-211-SD	EPA 200.2	415967	EPA 6020	416436
50184455008	PZ-211-SD DUP	EPA 200.2	415967	EPA 6020	416436
50184455009	PZ-211-SS	EPA 200.2	415967	EPA 6020	416436
50183795001	PZ-111-SS	EPA 7470	414282	EPA 7470	416342
50183795002	PZ-111-SD	EPA 7470	414282	EPA 7470	416342
50183795003	PZ-109-SS	EPA 7470	414282	EPA 7470	416342
50183795004	PZ-106-SS	EPA 7470	414282	EPA 7470	416342
50183795005	PZ-106-SD	EPA 7470	414282	EPA 7470	416342
50183795006	PZ-106-SD Dup	EPA 7470	414282	EPA 7470	416342
50183795007	PZ-205-SS	EPA 7470	414282	EPA 7470	416342
50183795008	PZ-100-SD	EPA 7470	414282	EPA 7470	416342
50183795009	PZ-100-SS	EPA 7470	414282	EPA 7470	416342
50183795010	PZ-201A-SS	EPA 7470	414282	EPA 7470	416342
50184447001	PZ-114-AS	EPA 7470	417248	EPA 7470	417510
50184447002	PZ-115-SS	EPA 7470	417248	EPA 7470	417510
50184447003	PZ-105-SS	EPA 7470	417248	EPA 7470	417510
50184455001	FB @ PZ-104-SD	EPA 7470	417248	EPA 7470	417510
50184455002	PZ-104-SD	EPA 7470	417248	EPA 7470	417510
50184455003	PZ-104-SS	EPA 7470	417248	EPA 7470	417510
50183793001	PZ-209-SD	EPA 3510	414093	EPA 8270	414185
50183793002	PZ-209-SS	EPA 3510	414093	EPA 8270	414185
50184455001	FB @ PZ-104-SD	EPA 3510	415549	EPA 8270	415653
50184455002	PZ-104-SD	EPA 3510	415549	EPA 8270	415653
50184455003	PZ-104-SS	EPA 3510	415549	EPA 8270	415653
50184455004	PZ-104-KS	EPA 3510	415549	EPA 8270	415653
50184455005	PZ-210-SD	EPA 3510	415549	EPA 8270	415653
50184455006	PZ-210-SS	EPA 3510	415549	EPA 8270	415653
50184455007	PZ-211-SD	EPA 3510	415549	EPA 8270	415653
50184455008	PZ-211-SD DUP	EPA 3510	415549	EPA 8270	415653
50184455009	PZ-211-SS	EPA 3510	415549	EPA 8270	415653
50183793001	PZ-209-SD	EPA 8260	416114		
50183793002	PZ-209-SS	EPA 8260	416114		
50183795001	PZ-111-SS	EPA 8260	415186		
50183795002	PZ-111-SD	EPA 8260	415186		
50183795003	PZ-109-SS	EPA 8260	415186		
50183795004	PZ-106-SS	EPA 8260	415186		
50183795005	PZ-106-SD	EPA 8260	415186		
50183795006	PZ-106-SD Dup	EPA 8260	415186		
50183795007	PZ-205-SS	EPA 8260	415186		
50183795008	PZ-100-SD	EPA 8260	415186		
50183795009	PZ-100-SS	EPA 8260	415186		
50183795010	PZ-201A-SS	EPA 8260	415186		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50183795011	Trip Blank	EPA 8260	415186		
50184447001	PZ-114-AS	EPA 8260	416583		
50184447002	PZ-115-SS	EPA 8260	416583		
50184447003	PZ-105-SS	EPA 8260	416843		
50184455001	FB @ PZ-104-SD	EPA 8260	416843		
50184455002	PZ-104-SD	EPA 8260	416843		
50184455003	PZ-104-SS	EPA 8260	416843		
50184455004	PZ-104-KS	EPA 8260	416843		
50184455005	PZ-210-SD	EPA 8260	416843		
50184455006	PZ-210-SS	EPA 8260	416843		
50184455007	PZ-211-SD	EPA 8260	416843		
50184455008	PZ-211-SD DUP	EPA 8260	416843		
50184455009	PZ-211-SS	EPA 8260	416843		
50184455010	Trip Blank	EPA 8260	416843		
50183795001	PZ-111-SS	SM 2540C	414169		
50183795002	PZ-111-SD	SM 2540C	414169		
50183795003	PZ-109-SS	SM 2540C	414169		
50183795004	PZ-106-SS	SM 2540C	414169		
50183795005	PZ-106-SD	SM 2540C	414169		
50183795006	PZ-106-SD Dup	SM 2540C	414310		
50183795007	PZ-205-SS	SM 2540C	414523		
50183795008	PZ-100-SD	SM 2540C	414524		
50183795009	PZ-100-SS	SM 2540C	414524		
50183795010	PZ-201A-SS	SM 2540C	414524		
50184447001	PZ-114-AS	SM 2540C	415580		
50184447002	PZ-115-SS	SM 2540C	415580		
50184447003	PZ-105-SS	SM 2540C	415580		
50184455001	FB @ PZ-104-SD	SM 2540C	415580		
50184455002	PZ-104-SD	SM 2540C	415580		
50184455003	PZ-104-SS	SM 2540C	415580		
50183795001	PZ-111-SS	EPA 410.4	414502	EPA 410.4	414553
50183795002	PZ-111-SD	EPA 410.4	414502	EPA 410.4	414553
50183795003	PZ-109-SS	EPA 410.4	414502	EPA 410.4	414553
50183795004	PZ-106-SS	EPA 410.4	414502	EPA 410.4	414553
50183795005	PZ-106-SD	EPA 410.4	414502	EPA 410.4	414553
50183795006	PZ-106-SD Dup	EPA 410.4	414502	EPA 410.4	414553
50183795007	PZ-205-SS	EPA 410.4	414502	EPA 410.4	414553
50183795008	PZ-100-SD	EPA 410.4	414502	EPA 410.4	414553
50183795009	PZ-100-SS	EPA 410.4	414502	EPA 410.4	414553
50183795010	PZ-201A-SS	EPA 410.4	414502	EPA 410.4	414553
50184447001	PZ-114-AS	EPA 410.4	415989	EPA 410.4	416057
50184447002	PZ-115-SS	EPA 410.4	415989	EPA 410.4	416057
50184447003	PZ-105-SS	EPA 410.4	415989	EPA 410.4	416057
50184455001	FB @ PZ-104-SD	EPA 410.4	416453	EPA 410.4	416598

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184455002	PZ-104-SD	EPA 410.4	416708	EPA 410.4	416794
50184455003	PZ-104-SS	EPA 410.4	416453	EPA 410.4	416598
50183793001	PZ-209-SD	SM 4500-S2-D	414248		
50183793002	PZ-209-SS	SM 4500-S2-D	414496		
50184455001	FB @ PZ-104-SD	SM 4500-S2-D	415662		
50184455002	PZ-104-SD	SM 4500-S2-D	415662		
50184455003	PZ-104-SS	SM 4500-S2-D	415662		
50184455004	PZ-104-KS	SM 4500-S2-D	415662		
50184455005	PZ-210-SD	SM 4500-S2-D	415676		
50184455006	PZ-210-SS	SM 4500-S2-D	415676		
50184455007	PZ-211-SD	SM 4500-S2-D	415676		
50184455008	PZ-211-SD DUP	SM 4500-S2-D	415676		
50184455009	PZ-211-SS	SM 4500-S2-D	415676		
50183795001	PZ-111-SS	EPA 353.2	414847		
50183795002	PZ-111-SD	EPA 353.2	414847		
50183795003	PZ-109-SS	EPA 353.2	414847		
50183795004	PZ-106-SS	EPA 353.2	414847		
50183795005	PZ-106-SD	EPA 353.2	414847		
50183795006	PZ-106-SD Dup	EPA 353.2	414847		
50183795007	PZ-205-SS	EPA 353.2	414847		
50183795008	PZ-100-SD	EPA 353.2	414847		
50183795009	PZ-100-SS	EPA 353.2	414847		
50183795010	PZ-201A-SS	EPA 353.2	414847		
50184447001	PZ-114-AS	EPA 353.2	415927		
50184447002	PZ-115-SS	EPA 353.2	415927		
50184447003	PZ-105-SS	EPA 353.2	415927		
50184455001	FB @ PZ-104-SD	EPA 353.2	415927		
50184455002	PZ-104-SD	EPA 353.2	415927		
50184455003	PZ-104-SS	EPA 353.2	415927		
50183795001	PZ-111-SS	EPA 365.1	414898	EPA 365.1	415072
50183795002	PZ-111-SD	EPA 365.1	414898	EPA 365.1	415072
50183795003	PZ-109-SS	EPA 365.1	414898	EPA 365.1	415072
50183795004	PZ-106-SS	EPA 365.1	414898	EPA 365.1	415072
50183795005	PZ-106-SD	EPA 365.1	414898	EPA 365.1	415072
50183795006	PZ-106-SD Dup	EPA 365.1	414898	EPA 365.1	415072
50183795007	PZ-205-SS	EPA 365.1	414898	EPA 365.1	415072
50183795008	PZ-100-SD	EPA 365.1	414898	EPA 365.1	415072
50183795009	PZ-100-SS	EPA 365.1	414898	EPA 365.1	415072
50183795010	PZ-201A-SS	EPA 365.1	414898	EPA 365.1	415072
50184447001	PZ-114-AS	EPA 365.1	416427	EPA 365.1	416745
50184447002	PZ-115-SS	EPA 365.1	416427	EPA 365.1	416745
50184447003	PZ-105-SS	EPA 365.1	416427	EPA 365.1	416745
50184455001	FB @ PZ-104-SD	EPA 365.1	416427	EPA 365.1	416745
50184455002	PZ-104-SD	EPA 365.1	416427	EPA 365.1	416745

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 4Q DMP/Assement
Pace Project No.: 50183795

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50184455003	**PZ-104-SS**	EPA 365.1	416427	EPA 365.1	416745
50183795001	**PZ-111-SS**	SM 4500-NH3 G	415830		
50183795002	**PZ-111-SD**	SM 4500-NH3 G	415830		
50183795003	**PZ-109-SS**	SM 4500-NH3 G	415830		
50183795004	**PZ-106-SS**	SM 4500-NH3 G	415830		
50183795005	**PZ-106-SD**	SM 4500-NH3 G	415830		
50183795006	**PZ-106-SD Dup**	SM 4500-NH3 G	415830		
50183795007	**PZ-205-SS**	SM 4500-NH3 G	415830		
50183795008	**PZ-100-SD**	SM 4500-NH3 G	415830		
50183795009	**PZ-100-SS**	SM 4500-NH3 G	415830		
50183795010	**PZ-201A-SS**	SM 4500-NH3 G	415830		
50184447001	**PZ-114-AS**	SM 4500-NH3 G	416240		
50184447002	**PZ-115-SS**	SM 4500-NH3 G	416240		
50184447003	**PZ-105-SS**	SM 4500-NH3 G	416240		
50184455001	**FB @ PZ-104-SD**	SM 4500-NH3 G	416240		
50184455002	**PZ-104-SD**	SM 4500-NH3 G	416240		
50184455003	**PZ-104-SS**	SM 4500-NH3 G	416242		
50183795001	**PZ-111-SS**	SM 5310C	414831		
50183795002	**PZ-111-SD**	SM 5310C	414831		
50183795003	**PZ-109-SS**	SM 5310C	414831		
50183795004	**PZ-106-SS**	SM 5310C	414831		
50183795005	**PZ-106-SD**	SM 5310C	414831		
50183795006	**PZ-106-SD Dup**	SM 5310C	414831		
50183795007	**PZ-205-SS**	SM 5310C	414831		
50183795008	**PZ-100-SD**	SM 5310C	414831		
50183795009	**PZ-100-SS**	SM 5310C	414831		
50183795010	**PZ-201A-SS**	SM 5310C	414831		
50184447001	**PZ-114-AS**	SM 5310C	416793		
50184447002	**PZ-115-SS**	SM 5310C	416793		
50184447003	**PZ-105-SS**	SM 5310C	416793		
50184455001	**FB @ PZ-104-SD**	SM 5310C	416793		
50184455002	**PZ-104-SD**	SM 5310C	416793		
50184455003	**PZ-104-SS**	SM 5310C	416793		

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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.

CHB

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:	3377 Hollenberg Drive	Copy To:		Company Name:	
	Bridgeton, MO 63044			Address:	
Email To:	jwilkinson@feezorengineering.com	Purchase Order #:		Pace Quote:	
Phone:	(636)578-8635 Fax	Project Name:	Bridgeton 4Q DMP Sampling	Pace Project Manager:	chris.boyle@pacelabs.com
Requested Due Date:	Standard	Project #:		Pace Profile #:	4762 / 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 (deg C)	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS, Cl, F, SO4	Ammonia, NO3/NO2, Phos	TOC, COD	Metals, Total	VOC by 8260	Residual Chlorine (Y/N)	5018379 5
1	PZ-111-SS	WT	G			11/6/17	1013		7	1	2	1	3						X	X	X	X	X		-001
2	PZ-111-SD	WT	G				1102		7	1	2	1	3						X	X	X	X	X		-002
3	PZ-109-SS	WT	G				1204		7	1	2	1	3						X	X	X	X	X		-003
4	PZ-106-SS	WT	G				1407		7	1	2	1	3						X	X	X	X	X		-004
5	PZ-106-SD	WT	G				1504		7	1	2	1	3						X	X	X	X	X		-005
6	PZ-106-SD DUP	WT	G			11/6/17	1504		7	1	2	1	3						X	X	X	X	X		-006
7	PZ-205-SS	WT	G			11/7/17	0844		7	1	2	1	3						X	X	X	X	X		-007
8	PZ-100-SD	WT	G				0953		7	1	2	1	3						X	X	X	X	X		-008
9	PZ-100-SS	WT	G				1045		7	1	2	1	3						X	X	X	X	X		-009
10	PZ-201A-SS	WT	G				1143		7	1	2	1	3						X	X	X	X	X		-010
11	Trip Blank	WT	G			11/7/17	N/A		3				3										X		-011
12		WT	G																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / FEI	11/7/17	1700	Fed Ex	11/7/17	1700				
	Fed Ex	11/8/17	0835	[signature] / Pace	11/8/17	0835		Y	Y	Y

1.1°C
0.8°C

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER: [signature] DATE Signed: 11/7/17

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

Sample Condition Upon Receipt

Pace Analytical

Project # 50183795

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

Tracking #: 4117 7636 1278; 1289

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

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

Thermometer 1 2 3 4 5 6 A B (C) D E F Ice Type: (Wet) Blue None ☐ Yes ☐ No ☑ N/A Samples iced, cooling process has begun

Cooler Temperature 1.1°C/1.1°C 0.8°C/0.8°C
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☑ No ☐ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☑ N/A

Date/Time and Initials of person examining contents: 11/8/17 1400 RNP			**Comments**
Are samples from West Virginia? ☐ Yes ☑ No Document any containers out of temp.		1.	
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐ Yes ☑ No	2.	
Chain of Custody Present:	☑ Yes ☐ No	3.	
Chain of Custody Filled Out:	☑ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr):	☐ Yes ☑ No	5.	**Date/Time 5035A T/C placed in Freezer:** _____ **Short Holds Taken to Lab:** _____
Rush Turn Around Time Requested:	☐ Yes ☑ No	6.	
Containers Intact:	☑ Yes ☐ No	7.	
Sample Labels match COC: RNP 11/8/17 -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	☑ Yes ☑ No	8. Did not receive BP3S container for sample "PZ-106-SS"	
Were dissolved metals samples field filtered?	☐ Yes ☐ No ☑ N/A	9.	
All containers needing acid/base pres. have been checked? **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** 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 ☑ N/A	14.	
Trip Blank Present: ☑ Yes ☐ No	Custody Seals ☑ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Sample Container Count

CLIENT: Republic Services MO

COC PAGE 1 of 1

COC ID#

Project # 50183795

Sample Line Item	DG9B / VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk SBS DI Kit R				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3					1						1		1	1						WT	✓		
2						↓						↓		↓	↓						↓	↓		
3						↓						↓		↓	↓						↓	↓		
4						↓						↓		↓	↓						↓	↓		
5						↓						↓		↓	1						↓	↓		
6						↓						↓		↓	↓						↓	↓		
7						↓						↓		↓	↓						↓	↓		
8						↓						↓		↓	↓						↓	↓		
9						↓						↓		↓	↓						↓	↓		
10						↓						↓		↓	↓						↓	↓		
11	3																							
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

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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.

Chb

Page : 1 Of 1

Section A
Required Client Information:

Company:	Republic Services - Missouri Landfills
Address:	3377 Hollenberg Drive
	Bridgeton, MO 63044
Email To:	jwilkinson@feezorengineering.com
Phone:	(636)578-8635 Fax
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Jon Wilkinson
Copy To:	
Purchase Order #:	
Project Name:	Bridgeton Assessment 4Q 2017
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	chris.boyle@pacelabs.com
Pace Profile #:	4762 / 3

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 (deg C)	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): TDS, Cl, F, SO4	Ammonia, NO3/NO2, Phos	TOC, COD	Metals, Total	VOC by 8260	Sulfide	PCB by 8082	SVOC by 8270					Residual Chlorine (Y/N)	50187793
1	PZ-209-SD	WT	G			11/7/17	1430		9	4		1	3				1				X	X	X	X	X						-001
2	PZ-209-SS	WT	G			11/7/17	1544		9	4		1	3				1				X	X	X	X	X						-002
3		WT	G																												
4		WT	G																												
5		WT	G																												
6		WT	G																												
7		WT	G																												
8		WT	G																												
9		WT	G																												
10		WT	G																												
11		WT	G																												
12		WT	G																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		11/7/17	1700	FedEx	11/7/17	1700				
	Fed Ex	11/8/17	0835	Pace	11/8/17	0835		Y	Y	Y

1.1°C
0.8°C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Wilkinson
SIGNATURE of SAMPLER:
DATE Signed: 11/7/2017

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

Sample Condition Upon Receipt

Pace Analytical

Project # 50183793

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

Tracking #: 4117 7636 1778; 1789

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

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 1.1°C/1.1°C 6.8°C/10.8°C Ice Visible in Sample Containers: ☐ Yes ☑ No

(Initial/Corrected) Temp should be above freezing to 6°C If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☑ N/A

Date/Time and Initials of person examining contents: 4/8/17 1344 RNP		Comments
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐Yes ☑No	
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	4. Date/Time 5035A T/C placed in Freezer: _____ Short Holds Taken to Lab: _____
Rush Turn Around Time Requested:	☐Yes ☑No	5.
Containers Intact:	☑Yes ☐No	6.
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which may only be on the bag or block.	☑Yes ☐No ☐N/A	7.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl. All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	8 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		9. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		10. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	11
Headspace Wisconsin Sulfide	☐Yes ☑No ☑N/A	12
Trip Blank Present: ☐Yes ☑No Custody Seals	☐Yes ☑No	13

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Sample Container Count

CLIENT: Republic Services MO

COC PAGE 1 of 1

COC ID# _____

Project # 50183793

Sample Line Item	DG9H / VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk SBS DI Kit R	BP3Z			Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3	2		2										1				1			WT	✓		✓
2	3	2		2										1				1			WT	✓		✓
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

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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:	3377 Hollenberg Drive
	Bridgeton, MO 63044
Email To:	jwilkinson@feezorengineering.com
Phone:	(636)578-8635 Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	Jon Wilkinson
Copy To:	
Purchase Order #:	
Project Name:	Bridgeton 4Q DMP Sampling
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 (deg C)	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): TDS, Cl, F, SO4	Ammonia, NO3/NO2, Phos	TOC, COD	Metals, Total	VOC by 8260	Residual Chlorine (Y/N)	50184447
1	PZ-114-AS	WT	G		11/13/17	0938			7	1	2	1	3					X	X	X	X	X		001
2	PZ-115-SS	WT	G		"	1028			7	1	2	1	3					X	X	X	X	X		002
3	PZ-105-SS	WT	G		11/13/17	1141			7	1	2	1	3					X	X	X	X	X		003
4		WT	G																					
5		WT	G																					
6		WT	G																					
7		WT	G																					
8		WT	G																					
9		WT	G																					
10		WT	G																					
11		WT	G																					
12		WT	G																					

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	IFET	11/14/17	1700	FedEx	11/14/17	1700
	Fedex	11/15/17	820	Hayden Pitt	11/15/17	820

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER:

DATE Signed: 11/14/2017

Sample Condition Upon Receipt

Pace Analytical

Project # 50184447

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

Tracking #: 411776359219/9208

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

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

Thermometer 1 2 3 4 5 6 (A) B C D E F Ice Type: (Wet) Blue None ☑ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 0.4/0.4 1.9/1.9
(Initial/Corrected) Temp should be above freezing to 6°C

Ice Visible in Sample Containers: ☐ Yes ☐ No ☑ N/A

If Over 6°C, Was PM Notified? ☐ Yes ☐ No ☑ N/A

Date/Time and Initials of person examining contents: 11/15/17 1510 HP			**Comments**
Are samples from West Virginia? Document any containers out of temp.	☐ Yes ☑ No	1.	
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐ Yes ☑ No	2.	
Chain of Custody Present:	☑ Yes ☐ No	3.	
Chain of Custody Filled Out:	☑ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr):	☐ Yes ☑ No	5.	**Date/Time 5035A T/C placed in Freezer:** _____ **Short Holds Taken to Lab:** _____
Rush Turn Around Time Requested:	☐ Yes ☑ No	6.	
Containers Intact:	☑ Yes ☐ No	7.	
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	☑ Yes ☐ No	8.	
Were dissolved metals samples field filtered?	☐ Yes ☑ No ☐ N/A	9.	
All containers needing acid/base pres. have been checked? **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** 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 ☑ N/A	14.	
Trip Blank Present: ☐ Yes ☑ No	Custody Seals ☐ Yes ☑ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Sample Container Count

CLIENT: Republic

COC PAGE 1 of 1

COC ID#

Project # 50184447

Sample Line Item	DG9H VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	Bulk SBS DI Kit R				Matrix SI/WT/NAL (Soil/Water/Non-Aqueous Liquid)	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

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	Republic Services - Missouri Landfills
Address:	3377 Hollenberg Drive
	Bridgeton, MO 63044
Email To:	jwilkinson@feezorengineering.com
Phone:	(636)578-8635 Fax
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	Jon Wilkinson
Copy To:	
Purchase Order #:	
Project Name:	Bridgeton Assessment 4Q 2017
Project #:	

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	chris.boyle@pacelabs.com
Pace Profile #:	4762

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 (deg C)	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): TDS, Cl, F, SO4	Ammonia, NO3/NO2, Phos	TOC, COD	Metals, Total	VOC by 8260	Sulfide	PCB by 8082	SVOC by 8270				Line Item	Residual Chlorine (Y/N)	50184455
1	FB @ PZ-104-SD	WT	G		11/13	17	1300		12	5	2	1	3				1	X	X	X	X	X	X	X	X				2		001
2	PZ-104-SD	WT	G				1338		12	5	2	1	3				1	X	X	X	X	X	X	X	X				2		002
3	PZ-104-SS	WT	G				1437		12	5	2	1	3				1	X	X	X	X	X	X	X	X				2		003
4	PZ-104-KS	WT	G		11/13	17	1606		9	4		1	3				1				X	X	X	X	X				3		004
5	PZ-210-SD	WT	G		11/14	17	0931		9	4		1	3				1				X	X	X	X	X				3		005
6	PZ-210-SS	WT	G				1016		9	4		1	3				1				X	X	X	X	X				3		006
7	PZ-211-SD	WT	G				1120		9	4		1	3				1				X	X	X	X	X				3		007
8	PZ-211-SD DUP	WT	G				1120		9	4		1	3				1				X	X	X	X	X				3		008
9	PZ-211-SS	WT	G				1217		9	4		1	3				1				X	X	X	X	X				3		009
10	Trip Blank	WT	G		11/14	17	N/A		3				3									X							2		010
11		WT	G																												
12		WT	G																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	FEI	11/14/17	1700	FedEx	11/14/17	1700
	Fedex	11/15/17	820	Hayden Pratt	11/15/17	820

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER:

DATE Signed: 11/14/2017

Sample Condition Upon Receipt

Pace Analytical™ Project # 50184455

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

Tracking #: 411776359220/9193/9289/9208

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

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

Thermometer 1 2 3 4 5 6 (A) B C D E F Ice Type: (Wet) Blue None ☑ Yes ☐ No ☐ N/A Samples iced, cooling process has begun

Cooler Temperature 1.3/1.3 1.3/1.3 0.4/0.4 1.9/1.9 **Ice Visible in Sample Containers:** ☐ Yes ☐ No ☑ N/A

(Initial/Corrected) Temp should be above freezing to 6°C **If Over 6°C, Was PM Notified?** ☐ Yes ☐ No ☑ N/A

Date/Time and Initials of person examining contents: 11/15/17 1430 HP			**Comments**
Are samples from West Virginia? Document any containers out of temp.	☐ Yes ☑ No	1.	
USDA Regulated Soils? (ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, and Puerto Rico)	☐ Yes ☑ No	2.	
Chain of Custody Present:	☑ Yes ☐ No	3.	
Chain of Custody Filled Out:	☑ Yes ☐ No	4.	
Short Hold Time Analysis (<72hr):	☐ Yes ☑ No	5.	**Date/Time 5035A T/C placed in Freezer:** _____ **Short Holds Taken to Lab:** _____
Rush Turn Around Time Requested:	☐ Yes ☑ No	6.	
Containers Intact:	☑ Yes ☐ No	7.	
Sample Labels match COC: -Includes date/time/ID/Analysis - Except for TerreCores, which only require sample ID.	☑ Yes ☐ No	8.	
Were dissolved metals samples field filtered?	☐ Yes ☑ No ☐ N/A	9.	
All containers needing acid/base pres. have been checked? **exceptions: VOA, coliform, LLHg, O&G, and any container with a septum cap or preserved with HCl.** 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 ☑ N/A	14.	
Trip Blank Present: ☑ Yes ☐ No	Custody Seals ☑ Yes ☐ No	15.	16.

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Sample Container Count

CLIENT: Republic MO

COC PAGE 1 of 1

COC ID#

Project # 50184485

Sample Line Item	DG9B / VG9H	AG0U	AG1H	AG1U	AG2U	AG3S	WGFU	SP5T	BP1U	BP2N	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	R (Bulk SBS DI Kit)	BP3Z			Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3	2		2		1						1		1	1			1			WT	✓	✓	
2	↓	↓		↓		↓						↓		↓	↓			↓			↓	↓	↓	
3	↓	↓		↓		↓						↓		↓	↓			↓			↓	↓	↓	
4	↓	↓		↓																	↓	↓	↓	
5	↓	↓		↓										↓				↓			↓	↓	↓	
6	↓	↓		↓										↓				↓			↓	↓	↓	
7	↓	↓		↓										↓				↓			↓	↓	↓	
8	↓	↓		↓										↓				↓			↓	↓	↓	
9	↓	↓		↓										↓				↓			↓	↓	↓	
10	3																							
11																								
12																								

Container Codes

Glass

DG9B	40mL Na Bisulfate amber vial	AG0U	100mL unpreserved amber glass
DG9H	40mL HCL amber voa vial	AG1H	1 liter HCL amber glass
DG9M	40mL MeOH clear vial	AG1S	1 liter H2SO4 amber glass
DG9P	40mL TSP amber vial	AG1T	1 liter Na Thiosulfate amber glass
DG9S	40mL H2SO4 amber vial	AG1U	1liter unpreserved amber glass
DG9T	40mL Na Thio amber vial	AG2N	500mL HNO3 amber glass
DG9U	40mL unpreserved **amber** vial	AG2S	500mL H2SO4 amber glass
VG9H	40mL HCL clear vial	AG2U	500mL unpreserved amber glass
VG9T	40mL Na Thio. clear vial	AG3S	250mL H2SO4 glass amber
VG9U	40mL unpreserved **clear** vial	AG3U	250mL unpreserved amber glass
VGFX	40mL w/hexane wipe vial	BG1H	1 liter HCL clear glass
VSG	Headspace septa vial & HCL	BG1S	1 liter H2SO4 clear glass
WGAU	8oz unpreserved clear jar	BG1T	1 liter Na Thiosulfate clear glass
WGFU	4oz clear soil jar	BG1U	1 liter unpreserved glass
JGFU	4oz unpreserved amber wide	BG3H	250mL HCl Clear Glass
		BG3U	250mL Unpreserved Clear Glass

Plastic / Misc.

BP1A	1 liter NaOH, Asc Acid plastic	BP3U	250mL unpreserved plastic
BP1N	1 liter HNO3 plastic	BP3Z	250mL NaOH, Zn Ac plastic
BP1S	1 liter H2SO4 plastic		
BP1U	1 liter unpreserved plastic	AF	Air Filter
BP1Z	1 liter NaOH, Zn, Ac	C	Air Cassettes
BP2A	500mL NaOH, Asc Acid plastic	R	Terra core kit
BP2N	500mL HNO3 plastic	SP5T	120mL Coliform Na Thiosulfate
BP2O	500mL NaOH plastic	U	Summa Can
BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3S	250mL H2SO4 plastic		

F-IN-Q-270-rev.10,31Aug2017

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-100-SD

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 485.72

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/7/2017 0913

Casing Diameter (inches): 2

Initial Water Level (ft): 31.42

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 30.57 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 454.30

Total Volume Purged (mL): 13,300

Ground Water Elev Previous Event (ft, msl): 455.15

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 55.23

Well Total Depth Previous Event (ft): Top of pump = 96.21 May 2017

Date/Time Completed: 11/7/2017 0952

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.

As Built TD ≈ 247 ft

Average Purge Rate: 341 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 10,000 mL prior to first reading									
0940	10,000	370	15.3	7.29	607	2.76	0.61	-55	WL: 49.90
0944	11,000	250	15.8	7.29	609	1.56	0.59	-57	WL: 51.64
0948	12,150	287	15.7	7.31	609	11.09	0.53	-59	WL: 53.69
0952	13,300	287	15.7	7.29	608	2.39	0.60	-58	WL: 55.23
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 55.23

Well Collection Sequence #: 7 of 38

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
11/7/2017 0953	287	15.7	7.29	608	2.39	0.60	-58	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/7/2017 0930

End of day: (Date/time) 11/7/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
978.4	N/A	NTU std =	1,000	N/A	986.8	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1597	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std =	4.00 @ 22.0 °C	N/A	4.21	pH std =	4.00 @ 19.1 °C
6.89	N/A	pH std =	7.01 @ 22.2 °C	N/A	7.04	pH std =	7.02 @ 19.3 °C
Slope: 0.87 @ 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: 0.87 @ Temp 16.6°C	Dissolved O_2 Slope Range:	0.6 to 1.25
252	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	234	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 710 µS; Historical Range from May 2014 - Aug 2017: 567 - 635 µS.

pH Prediction Limits = 6.6 - 8.2 s.u.; Historical Range from May 2014 - Aug 2017: 7.09 - 7.48 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Date: 11/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-100-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 485.75

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/7/2017 1017

Casing Diameter (inches): 2

Initial Water Level (ft): 29.37

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 29.24 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 456.38

Total Volume Purged (mL): 6,800 mL

Ground Water Elev Previous Event (ft, msl): 456.51

Purged Dry?: Yes ____ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 43.96

Well Total Depth Previous Event (ft): Top of pump = 89.33 May 2017

Date/Time Completed: 11/7/2017 1044

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.

As Built TD ≈ 96 ft

Average Purge Rate: 252 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1032	3,500	233	16.1	7.17	799	4.07	1.47	+43	WL: 37.28
1036	4,450	237	16.1	7.15	790	3.09	1.36	+45	WL: 39.17
1040	5,800	337	16.2	7.16	789	4.70	1.34	+46	WL: 41.68
1044	6,800	250	16.1	7.16	786	3.62	2.21	+50	WL: 43.96
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 43.96

Well Collection Sequence #: 8 of 38

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
11/7/2017 1045	250	16.1	7.16	786	3.62	2.21	+50	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/7/2017 0730

End of day: (Date/time) 11/7/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
978.4	N/A	NTU std =	1,000	N/A	986.8	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1397	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std =	4.00 @22.0°C	N/A	4.21	pH std =	4.00 @19.1 °C
6.89	N/A	pH std =	7.01 @22.2°C	N/A	7.04	pH std =	7.02 @19.3 °C
Slope: 0.87	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 0.87	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 23.6°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
252	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	234	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from May 2014 - Aug 2017: 618 - 835 µS.

pH Prediction Limits = 6.6 - 8.0 s.u.; Historical Range from May 2014 - Aug 2017: 6.97 - 7.27 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Date: 11/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-104-KS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 483.95

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/13/2017 1521

Casing Diameter (inches): 2

Initial Water Level (ft): 17.96

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 15.62 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 465.99

Total Volume Purged (mL): 22,500 mL

Ground Water Elev Previous Event (ft, msl): 468.33

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 33.03

Well Total Depth Previous Event (ft): Top of pump = 93.29 May 2017

Date/Time Completed: 11/13/2017 1605

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 measured prior to pump installation = 409.26 ft

Average Purge Rate: 511 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1553	18,000	563	24.2	7.13	797	4.31	0.33	-237	WL: 33.05
1557	19,000	450	24.1	7.13	807	3.03	0.29	-238	WL: 33.07
1601	21,100	325	23.8	7.14	822	6.09	0.30	-232	WL: 33.08
1605	22,500	350	23.8	7.14	817	6.03	0.31	-233	WL: 33.03
									WL:
									WL:

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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): 33.03

Well Collection Sequence #: 32 of 38

Parameters: Annual: Semi-Annual: Quarterly: Monthly: Other: ✓ Assessment 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
11/13/2017 1600	350	23.8	7.14	817	6.03	0.31	-233	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.22	NTU std = 0.02
10.00	N/A	NTU std = 10.0	N/A	10.37	NTU std = 10.0
991.6	N/A	NTU std = 1,000	N/A	1009	NTU std = 1,000
1437	N/A	µS std = 1,413	N/A	1420	µS std = 1,413
Cell Const: 0.493	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range: 0.45 - 0.50
4.00	N/A	pH std = 4.00 @ 12.8 °C	N/A	4.09	pH std = 4.00 @ 17.2 °C
6.96	N/A	pH std = 7.05 @ 12.4 °C	N/A	7.04	pH std = 7.03 @ 17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A		@ Temp N/A	@ Temp 15.6°C	
254	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	250	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Clear, Breezy, 50's

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 9

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-104-SD

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/13/2017 1256

Casing Diameter (inches): 2

Initial Water Level (ft): 21.78

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.41 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.73

Total Volume Purged (mL): 15,300 mL

Ground Water Elev Previous Event (ft, msl): 462.10

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 27.84

Well Total Depth Previous Event (ft): Top of pump = 120.62 May 2017

Date/Time Completed: 11/13/2017 1337

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.

As Built TD ≈ 247 ft

Average Purge Rate: 373 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1325	11,000	374	26.2	6.75	2040	4.91	0.30	-106	WL: 27.61
1329	12,500	375	25.9	6.73	2130	3.42	0.19	-110	WL: 27.73
1333	13800	325	26.1	6.73	2080	4.10	0.18	-112	WL: 27.75
1337	15,300	375	26.0	6.76	2010	3.72	0.18	-114	WL: 27.84
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 27.84

Well Collection Sequence #: 30 of 38

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
11/13/2017 1338	375	26.0	6.76	2,010	3.72	0.18	-114	Clear, aerated

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.22	NTU std =	0.02
10.00	N/A	NTU std =	10.0	N/A	10.37	NTU std =	10.0
991.6	N/A	NTU std =	1,000	N/A	1009	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1420	µS std =	1,413
Cell Const: 0.493	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range:	0.45 - 0.50
4.00	N/A	pH std =	4.00 @12.8 °C	N/A	4.09	pH std =	4.00 @17.2 °C
6.96	N/A	pH std =	7.05 @12.4 °C	N/A	7.04	pH std =	7.03 @17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A			@ Temp N/A	@ Temp 15.8°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	250	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 65°F

Sample Characteristics: Clear, aerated

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,500 µS; Historical Range from May 2014 - Aug 2017: 1437 - 2110 µS.

pH Prediction Limits = 6.2 - 8.2 s.u.; Historical Range from May 2014 - Aug 2017: 6.56 - 6.96 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 12

collect FB @ PZ-104-SD @ 1300 - 12 bottles MDWR collects split - Mo App T

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-104-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 483.45

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/13/2017 1406

Casing Diameter (inches): 2

Initial Water Level (ft): 20.49

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 20.24 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 462.96

Total Volume Purged (mL): 9,900 mL

Ground Water Elev Previous Event (ft, msl): 463.21

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 40.93

Well Total Depth Previous Event (ft): Top of pump = 140.29 May 2017

Date/Time Completed: 11/13/2017 1436

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 75 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 147 ft

Average Purge Rate: 330 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1424	6,000	333	26.6	6.63	795	3.46	0.29	-143	WL: 33.30
1428	7,200	300	26.4	6.61	799	5.46	0.14	-154	WL: 35.49
1432	8,580	345	26.4	6.58	800	3.94	0.13	-177	WL: 38.07
1436	9,900	330	26.3	6.57	801	3.30	0.13	-193	WL: 40.93
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-104-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 40.97

Well Collection Sequence #: 31 of 38

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ **Assessment 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
11/13/2017 1437	330	26.3	6.57	801	3.30	0.13	-193	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.22	NTU std =	0.02
10.00	N/A	NTU std =	10.0	N/A	10.37	NTU std =	10.0
991.6	N/A	NTU std =	1,000	N/A	1009	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1420	µS std =	1,413
Cell Const: 0.493	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range:	0.45 - 0.50
4.00	N/A	pH std =	4.00 @12.8 °C	N/A	4.09	pH std =	4.00 @17.2 °C
6.96	N/A	pH std =	7.05 @12.4 °C	N/A	7.04	pH std =	7.03 @17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A			@ Temp N/A	@ Temp 15.8°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	250	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Clear, Breezy 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 930 µS; Historical Range from May 2014 - Aug 2017: 770 - 882 µS.

pH Prediction Limits = 6.2 - 8.5 s.u.; Historical Range from May 2014 - Aug 2017: 6.5 - 7.1 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 12

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-105-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 483.51

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/13/2017 1107

Casing Diameter (inches): 2

Initial Water Level (ft): 23.85

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 23.32 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 459.66

Total Volume Purged (mL): 9,550 mL

Ground Water Elev Previous Event (ft, msl): 460.19

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 42.38

Well Total Depth Previous Event (ft): Top of pump = 144.82 May 2017

Date/Time Completed: 11/13/2017 1140

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 75 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

As Built TD ≈ 151 ft

Average Purge Rate: 289 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1128	6,000	286	21.0	7.05	1,091	4.53	1.20	-51	WL: 35.96
1132	7,170	292	20.9	7.05	1,082	4.79	0.72	-49	WL: 38.01
1136	8,370	300	20.9	7.03	1,072	4.65	1.15	-45	WL: 40.09
1140	9,550	295	21.0	7.02	1,067	4.65	1.55	-28	WL: 42.38
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-105-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 42.38

Well Collection Sequence #: 29 of 38

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
11/13/2017 1141	295	21.0	7.02	1067	4.65	1.55	-28	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.22	NTU std =	0.02
10.00	N/A	NTU std =	10.0	N/A	10.37	NTU std =	10.0
991.6	N/A	NTU std =	1,000	N/A	1009	NTU std =	1,000
1437 1436	N/A	µS std =	1,413	N/A	1420	µS std =	1,413
Cell Const: 4.00 0.493	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range:	0.45 - 0.50
4.00 6.96	N/A	pH std =	4.00 @12.8 °C	N/A	4.09	pH std =	4.00 @17.2 °C
6.96	N/A	pH std =	7.05 @12.4 °C	N/A	7.04	pH std =	7.03 @17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A			@ Temp N/A	@ Temp 15.8°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	250	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: P. Cloudy, Breezy, 55°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,100 µS; Historical Range from May 2014 - Aug 2017: 942 - 1087 µS.

pH Prediction Limits = 6.7 - 8.3 s.u.; Historical Range from May 2014 - Aug 2017: 6.98 - 7.52 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

MDNR collects ep1.7 - Mo App I

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-106-SD

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 463.36

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/6/2017 1425

Casing Diameter (inches): 2

Initial Water Level (ft): 14.98

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.50 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 448.38

Total Volume Purged (mL): 12,500 mL

Ground Water Elev Previous Event (ft, msl): 448.86

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 21.89

Well Total Depth Previous Event (ft): Top of pump = 196.45 May 2017

Date/Time Completed: 11/6/2017 1503

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.

As Built TD ≈ 203 ft

Average Purge Rate: 403 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 9,000 mL prior to first reading									
1451	9,000	474	22.9	7.00	1469	3.21	5.51	-129	WL: 21.59
1455	9,750	187	22.8	7.00	1476	4.87	6.07	-130	WL: 21.65
1459	11,100	337	22.7	7.00	1488	4.00	6.56	-132	WL: 21.82
1503	12,500	350	22.7	7.00	1493	3.61	6.86	-132	WL: 21.89
									WL:
									WL:

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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): 21.89

Well Collection Sequence #: 5 of 38

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
11/6/2017 1504	350	22.7	7.00	1493	3.61	6.86	-132	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/6/2017 0800

End of day: (Date/time) 11/6/2017 1715

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.01	NTU std =	0.02
9.91	N/A	NTU std =	10.0	N/A	10.28	NTU std =	10.0
998.2	N/A	NTU std =	1,000	N/A	1044	NTU std =	1,000
1435	N/A	µS std =	1,413	N/A	1427	µS std =	1,413
Cell Const: 0.490	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.490	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4.00 @ 19.0 °C	N/A	4.19	pH std =	4.00 @ 18.7 °C
6.99	N/A	pH std =	7.03 @ 16.6 °C	N/A	7.08	pH std =	7.03 @ 18.1 °C
Slope: 0.74	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 0.91	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 15.2 °C	@ Temp N/A			@ Temp N/A	@ Temp 16.6 °C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	233	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,200 µS; Historical Range from May 2014 - Aug 2017: 842 - 6120 µS. SO land within historical range.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from May 2014 - Aug 2017: 6.54 - 6.97 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Collect PZ-106-SD Dup @ 1504 - 7 bottles

Date: 11/6/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-106-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 462.71

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/6/2017 1335

Casing Diameter (inches): 2

Initial Water Level (ft): 14.49

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.26 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): ~~448.22~~ 448.22

Total Volume Purged (mL): 10,800 mL

Ground Water Elev Previous Event (ft, msl): 448.45

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 30.50

Well Total Depth Previous Event (ft): Top of pump = 161.39 May 2017

Date/Time Completed: 11/6/2017 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.

As Built TD ≈ 167 ft

Average Purge Rate: 348 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 7,500 mL prior to first reading									
1354	7,500	395	22.6	6.96	1066	2.93	1.85	-106	WL: 25.78
1358	8,450	237	22.4	6.95	1063	2.96	2.24	-105	WL: 27.35
1402	9,650	300	22.5	6.94	1069	4.52	2.58	-106	WL: 28.92
1406	10,800	287	22.4	6.95	1071	2.87	3.00	-107	WL: 30.50
									WL:
									WL:

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): 30.50

Well Collection Sequence #: 4 of 38

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
11/6/2017 1407	287	22.4	6.95	1071	2.87	3.00	-107	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/6/2017 0800

End of day: (Date/time) 11/6/2017 1715

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.01	NTU std =	0.02
9.91	N/A	NTU std =	10.0	N/A	10.28	NTU std =	10.0
998.2	N/A	NTU std =	1,000	N/A	1044	NTU std =	1,000
1435	N/A	µS std =	1,413	N/A	1427	µS std =	1,413
Cell Const: 0.490	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.490	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std = 4.00 @ 14.0 °C		N/A	4.19	pH std = 4.00 @ 18.7 °C	
6.99	N/A	pH std = 7.03 @ 16.4 °C		N/A	7.08	pH std = 7.03 @ 18.1 °C	
Slope: 0.74	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 0.91	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 15.2°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
254	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	233	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. cond calibration appears to be normal

Sp. Cond. Prediction Limit = 950 µS; Historical Range from May 2014 - Aug 2017: 710 - 1026 µS.

pH Prediction Limits = 6.3 - 8.3 s.u.; Historical Range from May 2014 - Aug 2017: 6.84 - 7.26 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 11/6/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-109-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 460.19

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Date/Time Initiated: 11/6/2017 1134

Initial Water Level (ft): 21.04

Initial Water Level Previous Event (ft): 19.84 Aug 2017

Ground Water Elevation (ft, msl): 439.15

Ground Water Elev Previous Event (ft, msl): 440.35

Well Total Depth (ft): Not Applicable

Well Total Depth Previous Event (ft): Top of pump = 130.98 May 2017

Dedicated Equipment: Yes ✓ No

Casing Diameter (inches): 2

One Borehole Volume (gal): Not Applicable

One Borehole Volume Previous Event (gal): N/A

Total Volume Purged (mL): 9,400 mL

Purged Dry?: Yes No ✓

Water Level after Purge (feet): 39.42

Date/Time Completed: 11/6/2017 1203

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.

As Built TD ≈ 138 ft

Average Purge Rate: 362 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,500 mL prior to first reading									
1151	5,500	393	20.6	7.07	811	3.20	1.18	-53	WL: 32.56
1155	6,550	262	20.5	7.07	812	2.90	1.21	-35	WL: 34.45
1159	8,200	412	20.6	7.06	811	3.48	1.26	-21	WL: 37.29
1203	9,400	300	20.5	7.05	811	3.23	1.30	-13	WL: 39.42
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-109-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 39.42

Well Collection Sequence #: 3 of 38

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
11/6/2017 1204	300	20.5	7.05	811	3.23	1.30	-13	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/6/2017 0800

End of day: (Date/time) 11/6/2017 1715

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.01	NTU std =	0.02
9.91	N/A	NTU std =	10.0	N/A	10.28	NTU std =	10.0
998.2	N/A	NTU std =	1,000	N/A	1044	NTU std =	1,000
1435	N/A	µS std =	1,413	N/A	1427	µS std =	1,413
Cell Const: 0.490	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.490	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4.00 @ 14.0°C	N/A	4.19	pH std =	4.00 @ 18.7 °C
6.99	N/A	pH std =	7.03 @ 16.4°C	N/A	7.08	pH std =	7.03 @ 18.1 °C
Slope: 0.74	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 0.91	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 15.2°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	233	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 990 µS; Historical Range from May 2014 - Aug 2017: 715 - 829 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from May 2014 - Aug 2017: 6.97 - 7.36 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 11/6/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-111-SD

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 466.46

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/6/2017 1026

Casing Diameter (inches): 2

Initial Water Level (ft): 32.29

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 33.43 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 434.17

Total Volume Purged (mL): 12,250 mL

Ground Water Elev Previous Event (ft, msl): 433.03

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 59.71

Well Total Depth Previous Event (ft): Top of pump = 197.08 May 2017

Date/Time Completed: 11/6/2017 1101

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.

As Built TD ≈ 212 ft

Average Purge Rate: 350 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1049	8,500	370	16.9	7.13	839	1.75	2.37	-75	WL: 52.33
1053	9,500	270	16.9	7.13	840	0.58	1.69	-71	WL: 54.30
1057	10,900	330	16.9	7.13	839	4.20	1.53	-71	WL: 57.01
1101	12,250	337	16.8	7.14	839	2.75	1.58	-69	WL: 59.71
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-111-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 59.71

Well Collection Sequence #: 2 of 38

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
11/6/2017 1102	337	16.8	7.14	839	2.75	1.58	-69	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/6/2017 0800

End of day: (Date/time) 11/6/2017 1715

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.01	NTU std =	0.02
9.91	N/A	NTU std =	10.0	N/A	10.28	NTU std =	10.0
998.2	N/A	NTU std =	1,000	N/A	1044	NTU std =	1,000
1435	N/A	µS std =	1,413	N/A	1427	µS std =	1,413
Cell Const: 0.490	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.490	Cell Const Range:	0.45 - 0.50
4.12	N/A	pH std =	4.00 @14.0°C	N/A	4.19	pH std =	4.00 @ 18.7 °C
6.99	N/A	pH std =	7.03 @14.4°C	N/A	7.08	pH std =	7.03 @ 18.1 °C
Slope: 0.74	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 0.91	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 15.2°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	233	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from May 2014 - Aug 2017: 697 - 853 µS.

pH Prediction Limits = 6.4 - 8.1 s.u.; Historical Range from May 2014 - Aug 2017: 7.01 - 7.43 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 7

Date: 11/6/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-111-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 464.63

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/6/2017 0951

Casing Diameter (inches): 2

Initial Water Level (ft): 33.71

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 31.98 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 430.92

Total Volume Purged (mL): 8,450 mL

Ground Water Elev Previous Event (ft, msl): 432.65

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 34.27

Well Total Depth Previous Event (ft): N/A May 2017

Date/Time Completed: 11/6/2017 1012

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.

Measured TD = 115.30 ft

Average Purge Rate: 402 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1000	4,000	444	15.5	6.94	1986	15.15	2.52	-107	WL: 34.32
1004	5,450	362	15.6	6.94	1942	9.20	2.54	-112	WL: 34.28
1008	7,000	387	15.7	6.93	1872	5.30	2.29	-112	WL: 34.27
1012	8,450	362	15.7	6.93	1827	6.24	1.65	-120	WL: 34.27
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-111-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 34.27

Well Collection Sequence #: 1 of 38

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
11/6/2017 1013	362	15.7	6.93	1027	0.24	1.65	-120	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/6/2017 0800

End of day: (Date/time) 11/6/2017 1715

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.01	NTU std = 0.02
9.91	N/A	NTU std = 10.0	N/A	10.28	NTU std = 10.0
999.2	N/A	NTU std = 1,000	N/A	1044	NTU std = 1,000
1435	N/A	µS std = 1,413	N/A	1427	µS std = 1,413
Cell Const: 0.490	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.490	Cell Const Range: 0.45 - 0.50
4.12	N/A	pH std = 4.00 @ 14.0 °C	N/A	4.19	pH std = 4.00 @ 18.7 °C
6.99	N/A	pH std = 7.03 @ 16.4 °C	N/A	7.08	pH std = 7.03 @ 18.1 °C
Slope: 0.74 @ Temp 15.2 °C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 0.91 @ Temp 16.6 °C	Dissolved O_2 Slope Range: 0.6 to 1.25
254	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	233	ORP std: 240 ± 20 mV @ 25°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: 7

Date: 11/6/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-114-AS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 451.26

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/15/2017 0920

Casing Diameter (inches): 2

Initial Water Level (ft): 20.40

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 18.52 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 430.86

Total Volume Purged (mL): ~~4,100~~ 4,100

Ground Water Elev Previous Event (ft, msl): 432.74

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 20.50

Well Total Depth Previous Event (ft): Top of pump = 26.04 May 2017

Date/Time Completed: 11/15/2017 0932

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.

As Built TD ≈ 32 ft

Average Purge Rate: 241 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 1,000 mL prior to first reading									
0925	1,000	200	16.0	6.56	2,330	3.84	0.98	-68	WL: 20.45
0929	1,850	212	16.3	6.56	2,320	4.68	1.48	-77	WL: 20.49
0933	2,950	275	16.3	6.56	2,310	4.66	2.23	-81	WL: 20.46
0937	4,100	287	16.2	6.56	2,310	3.22	2.79	-78	WL: 20.50
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-114-AS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 20.50

Well Collection Sequence #: 27 of 38

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
11/13/2017 0980	287	16.2	6.56	2,310	8.22	2.79	-78	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.22	NTU std =	0.02
10.00	N/A	NTU std =	10.0	N/A	10.37	NTU std =	10.0
991.6	N/A	NTU std =	1,000	N/A	1009	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1420	µS std =	1,413
Cell Const: 0.493	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range:	0.45 - 0.50
4.00	N/A	pH std =	4.00 @22.8 °C	N/A	4.09	pH std =	4.00 @17.2 °C
6.96	N/A	pH std =	7.05 @12.4 °C	N/A	7.04	pH std =	7.03 @17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A			@ Temp N/A	@ Temp 15.8°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	250	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,400 µS; Historical Range from May 2014 - Aug 2017: 1917 - 2740 µS.

pH Prediction Limits = 6.2 - 7.0 s.u.; Historical Range from May 2014 - Aug 2017: 6.46 - 6.72 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

MDNR collects split - MO App I

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

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: 11/13/2017 1003

Casing Diameter (inches): 2

Initial Water Level (ft): 15.44

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.14 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 436.83

Total Volume Purged (mL): 7,100 mL

Ground Water Elev Previous Event (ft, msl): 438.13

Purged Dry?: Yes ____ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 20.94

Well Total Depth Previous Event (ft): Top of pump = 81.03 May 2017

Date/Time Completed: 11/13/2017 1027

PURGE DATA: Discharge: 4.5 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.

As Built TD ≈ 87 ft

Average Purge Rate: 296 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1015	3,500	292	15.7	6.59	2,730	14.36	0.30	-18	WL: 18.79
1019	4,200	175	15.8	6.61	2,710	4.26	0.22	-10	WL: 19.34
1023	5,700	375	16.0	6.61	2,730	4.51	0.19	-5	WL: 20.14
1027	7,100	350	15.8	6.61	2,730	4.23	0.20	-10	WL: 20.94
									WL:
									WL:

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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): 20.94

Well Collection Sequence #: 28 of 38

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
11/13/2017 1028	350	15.8	6.61	2,730	4.23	0.20	−10	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/13/2017 0810

End of day: (Date/time) 11/13/2017 1620

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	End of day			Sampling Event Start of day	End of day		
0.02	N/A	NTU std =	0.02	N/A	0.22	NTU std =	0.02
10.00	N/A	NTU std =	10.0	N/A	10.37	NTU std =	10.0
991.6	N/A	NTU std =	1,000	N/A	1009	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1420	µS std =	1,413
Cell Const: 0.493	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.493	Cell Const Range:	0.45 - 0.50
4.00	N/A	pH std =	4.00 @12.8 °C	N/A	4.09	pH std =	4.00 @17.2 °C
6.96	N/A	pH std =	7.05 @12.4 °C	N/A	7.04	pH std =	7.03 @ 17.6 °C
Slope: 1.15	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.20	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.4°C	@ Temp N/A			@ Temp N/A	@ Temp 15.8°C		
254	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	250	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Cloudy, Calm, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,500 µS; Historical Range from May 2014 - Aug 2017: 1920 - 2740 µS.

pH Prediction Limits = 6.1 - 7.6 s.u.; Historical Range from May 2014 - Aug 2017: 6.55 - 6.88 s.u.

Well Closed and Locked? (Y)/ N Full Suite Collected? (Y)/ N # Bottles Collected: 7

MDNR Collects split - No App I

Date: 11/13/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-201A-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 480.20

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/7/2017 1116

Casing Diameter (inches): 2

Initial Water Level (ft): 12.82

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 11.72 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 467.38

Total Volume Purged (mL): 7,050

Ground Water Elev Previous Event (ft, msl): 468.48

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 30.78

Well Total Depth Previous Event (ft): Top of pump = 86.28 May 2017

Date/Time Completed: 11/7/2017 1142

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.

As Built TD ≈ 92 ft

Average Purge Rate: ~~271~~ 241 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1130	4,000	~~200~~ 4,000	17.2	7.17	781	6.40	1.68	-33	WL: 23.48
1134	5,100	275	17.0	7.17	779	2.59	1.66	+9	WL: 25.76
1138	6,100	250	16.9	7.16	780	3.37	1.93	+28	WL: 28.25
1142	7,050	237	16.7	7.18	777	3.04	2.30	+36	WL: 30.78
									WL:
									WL:

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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): 30.78

Well Collection Sequence #: 9 of 38

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
11/7/2017 1143	237	16.7	7.18	777	3.84	2.38	+36	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/7/2017 0730

End of day: (Date/time) 11/7/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
978.4	N/A	NTU std =	1,000	N/A	986.5	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1397	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std =	4.00 @22.0 °C	N/A	4.21	pH std =	4.00 @19.1 °C
6.89	N/A	pH std =	7.00 @22.2 °C	N/A	7.04	pH std =	7.02 @19.3 °C
Slope: 0.87 @ 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: 0.87 @ Temp 16.6°C	Dissolved O_2 Slope Range:	0.6 to 1.25
252	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	234	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 970 µS; Historical Range from May 2014 - Aug 2017: 745 - 851 µS.

pH Prediction Limits = 6.4 - 8.5 s.u.; Historical Range from May 2014 - Aug 2017: 6.96 - 7.21 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 11/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: **Feezor Engineering, Inc.**

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-205-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 465.18

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/7/2017 0820

Casing Diameter (inches): 2

Initial Water Level (ft): 31.21

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 29.67 Aug 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 433.97

Total Volume Purged (mL): 6,600 mL

Ground Water Elev Previous Event (ft, msl): 435.51

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 44.94

Well Total Depth Previous Event (ft): Top of pump = 93.00 Aug 2017

Date/Time Completed: 11/7/2017 0843

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.

Measured TD = 103.61 ft

Average Purge Rate: 287 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
0831	3,500	318	18.3	7.03	882	4.32	1.65	+66	WL: 38.81
0835	4,350	212	18.5	7.02	885	4.70	1.61	+69	WL: 40.64
0839	5,480	282	18.3	7.06	894	4.71	1.65	+71	WL: 42.68
0843	6,600	280	18.6	7.04	886	4.72	1.72	+71	WL: 44.94
									WL:
									WL:

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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): 44.94

Well Collection Sequence #: 6 of 38

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
11/7/2017 0844	200	18.6	7.04	886	4.72	1.72	+71	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/7/2017 0730

End of day: (Date/time) 11/7/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
478.4	N/A	NTU std =	1,000	N/A	986.6	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1397	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std =	4.00 @22.0°C	N/A	4.21	pH std =	4.00 @19.1 °C
6.89	N/A	pH std =	7.01 @22.2°C	N/A	7.04	pH std =	7.02 @19.3 °C
Slope: 0.87	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 0.87	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 28.6°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
252	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	234	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,300 µS; Historical Range from May 2014 - Aug 2017: 762 - 927 µS.

pH Prediction Limits = 6.5 - 7.9 s.u.; Historical Range from May 2014 - Aug 2017: 6.93 - 7.27 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 7

Date: 11/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-209-SD

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 489.58

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/9/2017 1350

Casing Diameter (inches): 2

Initial Water Level (ft): 24.20

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 22.62 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 465.38

Total Volume Purged (mL): 14,670 mL

Ground Water Elev Previous Event (ft, msl): 466.96

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 52.23

Well Total Depth Previous Event (ft): Top of pump = 101.40 May 2017

Date/Time Completed: 11/7/2017 1429

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 measured prior to pump installation = 253.05 ft

Average Purge Rate: 376 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1417	11,000	407	14.0	7.31	819	4.45	0.26	-121	WL: 46.17
1421	12,100	275	14.1	7.32	822	3.87	0.30	-120	WL: 47.81
1425	13,380	320	14.0	7.31	819	4.13	0.31	-120	WL: 50.14
1429	14,670	322	14.1	7.30	821	4.02	0.29	-120	WL: 52.23
									WL:
									WL:

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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): 52.23

Well Collection Sequence #: 10 of 38

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment 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
11/9/2017 1430	322	14.1	7.30	821	4.02	0.29	-120	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/9/2017 0730

End of day: (Date/time) 11/9/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
978.4	N/A	NTU std =	1,000	N/A	986.8	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1347	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std = 4.00 @ 22.0 °C		N/A	4.21	pH std = 4.00 @ 19.1 °C	
6.89	N/A	pH std = 7.00 @ 22.0 °C		N/A	7.04	pH std = 7.02 @ 19.3 °C	
Slope: 0.87	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 0.87	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 23.6°C	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
252	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	234	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) N Full Suite Collected? (Y) N # Bottles Collected: 9

Date: 11/9/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-209-SS

Sampler(s): Michael Spurgeon
Jonathan Wilkinson

Top of Casing (ft, msl) 489.68

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/7/2017 1443

Casing Diameter (inches): 2

Initial Water Level (ft): 22.40

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.45 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 467.28

Total Volume Purged (mL): 10,160 mL

Ground Water Elev Previous Event (ft, msl): 468.23

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 41.96

Well Total Depth Previous Event (ft): Top of pump = 99.89 May 2017

Date/Time Completed: 11/7/2017 1513

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 measured prior to pump installation = 152.70 ft

Average Purge Rate: ~~261~~ 337 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1501	6,000	333	14.1	7.38	712	3.31	0.28	-151	WL: 34.55
1505	7750	437	14.2	7.38	713	4.88	0.24	-155	WL: 37.43
1509	9,100	337	14.2	7.37	715	5.09	0.24	-158	WL: 40.08
1513	10,160	265	14.2	7.38	717	5.47	0.24	-160	WL: 41.96
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-209-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 41.96

Well Collection Sequence #: 11 of 39

Parameters: Annual: Semi-Annual: Quarterly: Monthly: Other: ✓ Assessment 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
11/7/2017 1514	265	14.2	7.39	717	5.47	0.24	-160	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/7/2017 0730

End of day: (Date/time) 11/7/2017 1630

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.37	NTU std =	0.02
9.93	N/A	NTU std =	10.0	N/A	10.17	NTU std =	10.0
978.4	N/A	NTU std =	1,000	N/A	986.8	NTU std =	1,000
1420	N/A	µS std =	1,413	N/A	1397	µS std =	1,413
Cell Const: 0.478	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.478	Cell Const Range:	0.45 - 0.50
4.06	N/A	pH std =	4.00 @ 22.0 °C	N/A	4.21	pH std =	4.00 @ 19.1 °C
6.89	N/A	pH std =	7.00 @ 22.2 °C	N/A	7.04	pH std =	7.02 @ 19.3 °C
Slope: 0.87	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 0.87	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 23.6°	@ Temp N/A			@ Temp N/A	@ Temp 16.6°C		
252	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	234	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 9

Date: 11/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

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: 11/14/2017 0846

Casing Diameter (inches): 2

Initial Water Level (ft): 26.35

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 25.15 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 460.65

Total Volume Purged (mL): 14,150 mL

Ground Water Elev Previous Event (ft, msl): 461.85

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 50.63

Well Total Depth Previous Event (ft): Top of pump = 101.60 May 2017

Date/Time Completed: 11/14/2017 0930

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 measured prior to pump installation = 250.13 ft

Average Purge Rate: 322 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 10,500 mL prior to first reading									
0918	10,500	328	15.7	7.19	939	5.28	0.39	-44	WL: 44.49
0922	11,650	287	15.6	7.19	941	3.82	0.35	-41	WL: 46.31
0926	12,950	325	15.8	7.19	938	4.69	0.33	-44	WL: 48.39
0930	14,150	300	15.7	7.19	939	4.53	0.32	-41	WL: 50.63
									WL:
									WL:

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-210-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 50.63

Well Collection Sequence #: 33 of 38

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment 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
11/14/2017 0931	300	15.7	7.19	939	4.53	0.32	-41	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/14/2017 0800

End of day: (Date/time) 11/14/2017 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.12	NTU std = 0.02
10.01	N/A	NTU std = 10.0	N/A	10.74	NTU std = 10.0
989.6	N/A	NTU std = 1,000	N/A	>1100	NTU std = 1,000
1437	N/A	µS std = 1,413	N/A	1423	µS std = 1,413
Cell Const: 0.485	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.485	Cell Const Range: 0.45 - 0.50
4.03	N/A	① 4.00 pH std = 7.0 @15.6°C	N/A	4.12	pH std = 4.00 @17.0 °C
6.96	N/A	② 7.04 pH std = 4.00 @15.7°C	N/A	7.04	7.04 ③ pH std = 4.00 @16.4 °C
Slope: 1.13	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.17	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 16.7°C	@ Temp N/A		@ Temp N/A	@ Temp 15.7°C	
255	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	258	ORP std: 240 ± 20 mV @ 25°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: 11/14/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-210-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 486.90

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/14/2017 0946

Casing Diameter (inches): 2

Initial Water Level (ft): 25.63

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 24.54 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.27

Total Volume Purged (mL): 9,550 mL

Ground Water Elev Previous Event (ft, msl): 462.36

Purged Dry?: Yes No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 43.09

Well Total Depth Previous Event (ft): Top of pump = 101.46 May 2017

Date/Time Completed: 11/14/2017 1015

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 measured prior to pump installation = 150.39 ft

Average Purge Rate: 329 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	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									
1003	6,000	353	15.8	7.21	834	4.52	0.51	-26	WL: 36.68
1007	7,000	250	15.8	7.20	824	4.87	0.35	-40	WL: 38.54
1011	8,250	312	15.8	7.20	825	4.35	0.32	-26	WL: 41.06
1015	9,550	325	15.7	7.20	823	4.81	0.30	-34	WL: 43.09
									WL:
									WL:

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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): 43.09

Well Collection Sequence #: 34 of 38

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment 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
11/14/2017 1016	325	15.7	7.20	823	4.81	0.30	-34	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/14/2017 0800

End of day: (Date/time) 11/14/2017 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.12	NTU std =	0.02
10.01	N/A	NTU std =	10.0	N/A	10.74	NTU std =	10.0
989.6	N/A	NTU std =	1,000	N/A	>1100	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1423	µS std =	1,413
Cell Const: 0.485	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.485	Cell Const Range:	0.45 - 0.50
4.03	N/A	pH std =	4.00 @ 15.6 °C	N/A	4.12	pH std =	4.00 @ 17.0 °C
6.96	N/A	pH std =	7.04 @ 15.7 °C	N/A	7.04	pH std =	7.04 @ 16.4 °C
Slope: 1.13	Slope: N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A	Slope: 1.17	Dissolved O_2 Slope Range:	0.6 to 1.25
@ Temp 16.7°C	@ Temp N/A			@ Temp N/A	@ Temp 18.7°C		
255	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	258	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics:

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 9

Date: 11/14/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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: 11/14/2017 1048

Casing Diameter (inches): 2

Initial Water Level (ft): 22.89

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.50 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 464.57

Total Volume Purged (mL): 14,600 mL

Ground Water Elev Previous Event (ft, msl): 465.96

Purged Dry?: Yes ____ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 50.50

Well Total Depth Previous Event (ft): Top of pump = 99.02 May 2017

Date/Time Completed: 11/14/2017 1127

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 measured prior to pump installation = 249.82 ft

Average Purge Rate: 374 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 10,500 mL prior to first reading									
1115	10,500	389	14.7	7.27	903	5.59	0.22	-172	WL: 42.91
1119	11,500	250	14.7	7.27	903	6.93	0.21	-180	WL: 44.89
1123	13,100	400	14.6	7.27	904	6.87	0.22	-181	WL: 47.86
1127	14,600	375	14.7	7.27	905	5.13	0.22	-183	WL: 50.50
									WL:
									WL:

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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): 50.50

Well Collection Sequence #: 35 of 38

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ___ Monthly: ___ Other: ✓ Assessment 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
11/14/2017 1128	375	14.7	7.27	905	5.13	0.22	-183	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/14/2017 0800

End of day: (Date/time) 11/14/2017 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.12	NTU std =	0.02
10.01	N/A	NTU std =	10.0	N/A	10.74	NTU std =	10.0
989.6	N/A	NTU std =	1,000	N/A	>1100	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1423	µS std =	1,413
Cell Const: 0.485	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.485	Cell Const Range:	0.45 - 0.50
4.03	N/A	pH std = 4.00 @ 15.6°C		N/A	4.12	pH std = 4.00 @ 17.0 °C	
6.96	N/A	pH std = ~~7.00~~ 7.04 @ 15.7°C		N/A	7.04	pH std = 7.04 @ 16.4 °C	
Slope: 1.13	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25		Slope: N/A	Slope: 1.17	Dissolved O_2 Slope Range: 0.6 to 1.25	
@ Temp 16.7°C	@ Temp N/A			@ Temp N/A	@ Temp 15.7°C		
255	N/A	ORP std: 240 ± 20 mV @ 25°C		N/A	258	ORP std: 240 ± 20 mV @ 25°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: 4

collect PZ-211-SD DUP @ 1128 - 4 bottles

Date: 11/14/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Location: Bridgeton, Missouri

Sample Matrix: Groundwater

Sample Point ID: PZ-211-SS

Sampler(s): Michael Spurgeon

Jonathan Wilkinson

Top of Casing (ft, msl) 487.41

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 11/14/2017 1149

Casing Diameter (inches): 2

Initial Water Level (ft): 21.09

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 19.43 May 2017

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 466.32

Total Volume Purged (mL): 10,100 mL

Ground Water Elev Previous Event (ft, msl): 467.98

Purged Dry?: Yes ___ No ✓

Well Total Depth (ft): Not Applicable

Water Level after Purge (feet): 39.85

Well Total Depth Previous Event (ft): Top of pump = 98.12 May 2017

Date/Time Completed: 11/14/2017 1216

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 measured prior to pump installation = 149.99 ft

Average Purge Rate: 374 mL / min

Time	Cumulative Volume (mL)	Purge Rate (mL/min)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,100 mL prior to first reading									
1204	6,000	400	15.0	7.21	698	6.47	0.75	-117	WL: 32.31
1208	7,150	287	14.9	7.22	695	5.38	0.34	-130	WL: 34.54
1212	8,650	375	14.9	7.23	697	4.45	0.29	-135	WL: 37.05
1216	10,100	362	14.8	7.23	697	3.91	0.27	-138	WL: 39.85
									WL:
									WL:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-211-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 39.85

Well Collection Sequence #: 36 of 38

Parameters: Annual: Semi-Annual: Quarterly: Monthly: Other: ✓ Assessment 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
11/14/2017 1217	362	14.8	7.23	697	3.91	0.27	−138	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 11/14/2017 0800

End of day: (Date/time) 11/14/2017 1625

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201205083

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	0.12	NTU std =	0.02
10.01	N/A	NTU std =	10.0	N/A	10.74	NTU std =	10.0
989.6	N/A	NTU std =	1,000	N/A	>1100	NTU std =	1,000
1437	N/A	µS std =	1,413	N/A	1423	µS std =	1,413
Cell Const: 0.485	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	Cell Const: 0.485	Cell Const Range:	0.45 - 0.50
4.03	N/A	pH std =	4.00 @ 15.6 °C	N/A	4.12	pH std =	4.00 @ 17.0 °C
6.96	N/A	pH std =	~~7.00~~ 7.04 @ 15.7 °C	N/A	7.04	pH std =	7.04 @ 16.4 °C
Slope: 1.13 @ Temp 16.9°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range:	0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.17 @ Temp 15.7°C	Dissolved O_2 Slope Range:	0.6 to 1.25
255	N/A	ORP std:	240 ± 20 mV @ 25°C	N/A	258	ORP std:	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 9

Date: 11/14/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.