JETT ENVIRONMENTAL CONSULTING

May 4, 2017

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

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

Dear Ms. Fitch:

On behalf of the Bridgeton Landfill, LLC – Bridgeton Landfill, Jett Environmental Consulting is submitting the Detection Monitoring Program Groundwater Statistical Analysis Report for the First 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

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SWMP

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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)

10 Quiet Brook Court
St. Charles, MO 63303

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DETECTION MONITORING PROGRAM
GROUNDWATER STATISTICAL ANALYSIS REPORT

First Quarter 2017
Sampling Event

Bridgeton Landfill, LLC
Bridgeton Landfill
Bridgeton, Missouri

MO DNR PERMIT No. 118912

May 2017

Prepared by:

JETT ENVIRONMENTAL CONSULTING

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TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SITE BACKGROUND AND MONITORING NETWORK 1

3.0 SITE HYDROGEOLOGY 2

4.0 STATISTICAL PROCEDURES 4

4.1 Outliers 4

4.2 Screening for Statistical Trends 4

4.3 Intra-Well Prediction Limits 4

4.4 Statistical Trends in Exceeding Constituents 5

4.5 Organic Constituent Results 6

5.0 STATISTICAL RESULTS SUMMARY 6

TABLES

Table 1 Detection Monitoring Program Wells
Table 2 Intra-Well Prediction Limit Exceedances
Table 3 Organic Constituent Detections at PZ-114-AS
Table 4 Organic Constituent Detections at PZ-104-SS & PZ-104-SD

APPENDICES

Appendix A Statistical Power Curves
Appendix B Potentiometric Surface Maps
Appendix C Statistical Evaluations, Alluvial Zone
Appendix D Statistical Evaluations, St. Louis Formation
Appendix E Statistical Evaluations, Salem Formation
Appendix F Laboratory Analytical Report & Field Information Logs

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 First Quarter 2017 quarterly groundwater monitoring event. Sampling for the First Quarter 2017 event was conducted by Feezor Engineering, Inc. on February 7, 8, 9, and 17, 2017. Laboratory analytical testing was performed by Pace Analytical Services, Inc. Statistical evaluations were performed using the statistical analysis software package, Sanitas™, which follows a documented decision logic that incorporates the United States Environmental Protection Agency's (USEPA's) March 2009 Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance (hereafter, Unified Guidance).

2.0 SITE BACKGROUND AND MONITORING NETWORK

Jett Environmental Consulting statistically evaluated the detection monitoring results from the First 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.

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

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

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

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

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

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

A full suite of sample bottles was collected from each well during the First Quarter 2017 event. A field duplicate was collected at well PZ-115-SS. Three 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. For constituents where the original and/or field duplicate results were less than five times the RL, the results exhibited a difference that was less than or equal to the RL.

There were no detections above laboratory RLs in the trip blanks.

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 February 6, 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 First 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 First Quarter 2017 event. Intra-well prediction limit summary tables and graphs are presented in **Appendices C**, **D**, and **E**.

For the First Quarter 2017 event, there were no results that exceeded an intra-well prediction limit in the Alluvial Zone.

There were 12 results that exceeded their respective intra-well prediction limits in the St. Louis Formation Zone: total calcium, chloride, total magnesium, sulfate, and total dissolved solids (TDS) at PZ-105-SS; total barium, chloride, total iron, total sodium, and field specific conductance at PZ-106-SS; ammonia and total manganese at PZ-115-SS.

There were 10 results that exceeded their respective intra-well prediction limits in the Salem Formation Zone: total barium, chloride, total magnesium, total sodium, field specific conductance, TDS, and total organic carbon (TOC) at PZ-104-SD; and ammonia, total barium, and total magnesium at PZ-106-SD.

Of the 22 prediction limit exceedances observed for the First Quarter 2017 event, 21 were also observed for the previous monitoring event in Fourth Quarter 2016. One new prediction limit exceedance was observed for the First Quarter 2017 event: total barium at PZ-106-SS. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (Second Quarter 2017) will be used to confirm the new exceedance.

The First Quarter 2017 event served as a confirmatory event for the two new prediction limit exceedances that were observed for the Fourth Quarter 2016 event. One of the new exceedances observed for the Fourth Quarter 2016 event was not confirmed as an exceedance for the First Quarter 2017 event: total boron at PZ-201A-SS. One of the new exceedances observed for the Fourth Quarter 2016 event was confirmed as an exceedance for the First Quarter 2017 event: field specific conductance at PZ-106-SS.

4.4 Statistical Trends in Exceeding Constituents

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

Trend evaluation indicated that of the 22 constituent-well pairs that exceeded intra-well prediction limits for the First Quarter 2017 event, each also exhibited increasing statistical trends.

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 First Quarter 2017 monitoring event, organic constituents were detected at three wells: Alluvial Zone well PZ-114-AS, St. Louis Formation well PZ-104-SS, and Salem Formation Zone well PZ-104-SD. Wells PZ-114-AS, PZ-104-SS, and PZ-104-SD have previously exhibited confirmed organic constituent detections.

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

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

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

5.0 STATISTICAL RESULTS SUMMARY

For the First Quarter 2017 monitoring event, there were no results that exceeded an intra-well prediction limit in the Alluvial Zone. There were 12 results that exceeded their respective limits in the St. Louis Formation Zone. There were 10 results that exceeded their respective limits in the Salem Formation Zone.

One new prediction limit exceedance was observed for the First Quarter 2017 event: total barium at PZ-106-SS. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (Second Quarter 2017) will be used to confirm the new exceedance.

The First Quarter 2017 event served as a confirmatory event for the two new prediction limit exceedances that were observed for the Fourth Quarter 2016 event. One of the new exceedances observed for the Fourth Quarter 2016 event was not confirmed as an exceedance for the First Quarter 2017 event: total boron at PZ-201A-SS. One of the new exceedances observed for the Fourth Quarter 2016 event was confirmed as an exceedance for the First Quarter 2017 event: field specific conductance at PZ-106-SS.

Well PZ-104-SD exhibited confirmed exceedances and upward trends for the following inorganic constituents in First Quarter 2017: total barium, chloride, total magnesium, total sodium, field specific conductance, TDS, and TOC. PZ-104-SD also exhibited confirmed detections for the following organic constituents: 1,4-dichlorobenzene, benzene, toluene, and total xylenes.

Appendix F presents a copy of the laboratory analytical report and field information forms for the First 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 assessment monitoring plan (AMP) is not required when a Bridgeton Landfill detection monitoring well exhibits a confirmed inorganic prediction limit exceedance, unless the inorganic constituent also exhibits a concurrent statistically significant upward trend and the same well exhibits a concurrent confirmed organic constituent detection above the laboratory reporting limit (RL). The MDNR's position was originally articulated in a comment letter dated October 23, 2003. Of the constituent-well pairs identified by the MDNR as exhibiting confirmed exceedances with upward trends between September 2014 and March 2016, none exhibited concurrent confirmed organic constituent detections. An ASD or AMP was accordingly not required for these SSIs, per the MDNR's October 23, 2003 letter. However, given the assessment monitoring program that is presently in place for identified impacts to groundwater at detection monitoring wells PZ-104-SS and PZ-104-SD, the facility proactively prepared the November 14, 2016 ASD to address confirmed inorganic SSIs at other detection monitoring wells. The ASD concluded that the inorganic SSIs observed at other wells are a result of natural variation, and are 1) not indicative of a new impact to groundwater or 2) not related to the impact previously identified at PZ-104-SS and PZ-104-SD. The ASD is currently under review by the MDNR. The items addressed in the ASD are consistent with exceedances noted in the First 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 29, 2016 Annual Assessment Monitoring Report with the next annual report scheduled to be submitted by August 31, 2017. Potential remedial alternatives to address the groundwater quality issues at wells PZ-104-SS and PZ-104-SD were discussed and evaluated in a February 19, 2016 Assessment of Corrective Measures Report Addendum by Feezor Engineering, Inc.

An updated AMP was also included in the site's November 14, 2016 submittal noted above. The updated version of the AMP was prepared in response to the October 14, 2016 MDNR comment letter. The MDNR's letter addressed the facility's August 18, 2014 responses to comments on the AMP. In its letter, the MDNR requested that the facility submit a complete, updated AMP incorporating revisions to the AMP that were presented in the August 18, 2014 submittal. The November 14, 2016 updated AMP is currently under review by the MDNR.

TABLES

TABLE 1 Detection Monitoring Wells – First 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-110-SS, PZ-115-SS, PZ-201A-SS, PZ-205-SS
Salem Formation	PZ-100-SD, PZ-104-SD, PZ-106-SD, PZ-111-SD

TABLE 2
Prediction Limit Exceedances - First Quarter 2017
Bridgeton Landfill, LLC
Bridgeton Landfill

Zone	Well	Constituent	Units	Result	Prediction Limit	Repeat from Fourth Quarter 2016?	Trend
Alluvial	None						
St. Louis Formation	PZ-105-SS	Calcium, Total	mg/L	106	87	Yes	Increasing
		Chloride	mg/L	66.3	26	Yes	Increasing
		Magnesium, Total	mg/L	56.8	47	Yes	Increasing
		Sulfate as SO_4	mg/L	47.6	47	Yes	Increasing
		Total Dissolved Solids	mg/L	583	540	Yes	Increasing
	PZ-106-SS	Barium, Total	mg/L	0.180	0.170	No	Increasing
		Chloride	mg/L	41.0	17	Yes	Increasing
		Iron, Total	mg/L	2.48	1.40	Yes	Increasing
		Sodium, Total	mg/L	26.6	17.0	Yes	Increasing
		Specific Condutance, Field	umhos/cm	985	950	Yes	Increasing
	PZ-115-SS	Ammonia	mg/L	1.20	1.00	Yes	Increasing
		Manganese, Total	mg/L	0.0765	0.019	Yes	Increasing
Salem Formation	PZ-104-SD	Barium, Total	mg/L	0.609	0.230	Yes	Increasing
		Chloride	mg/L	264	110	Yes	Increasing
		Magnesium, Total	mg/L	67.7	58	Yes	Increasing
		Sodium, Total	mg/L	178	34	Yes	Increasing
		Specific Condutance, Field	umhos/cm	2,030	1,500	Yes	Increasing
		Total Dissolved Solids	mg/L	1,080	780	Yes	Increasing
		Total Organic Carbon	mg/L	75	32	Yes	Increasing
	PZ-106-SD	Ammonia	mg/L	35.6	1.4	Yes	Increasing
		Barium, Total	mg/L	0.421	0.10	Yes	Increasing
		Magnesium, Total	mg/L	65.3	63	Yes	Increasing

Table 3
Organic Constituent Detections at PZ-114-AS - First 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

Notes

All results are presented in units of ug/L.

Result above laboratory Reporting Limit (RL).

** Confirmation sampling event.*

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

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

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

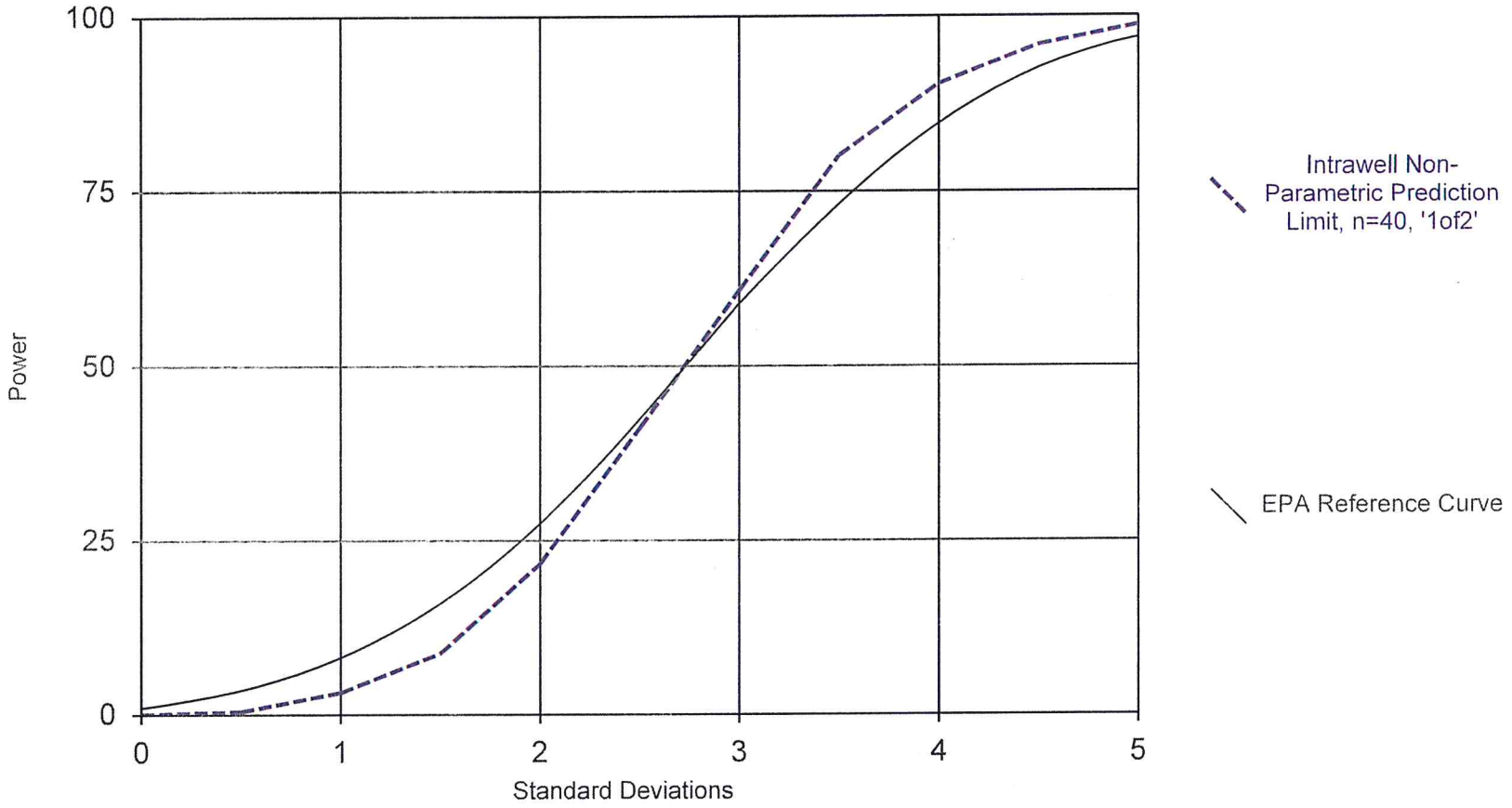
Well	Date	124-Trimethylbenzene	12-Dichloroethane	14-Dichlorobenzene	1-Chlorobutane	2-Hexanone	Acetone	Aroclor 1221 (PCB-1221)	Benzene	Chloroethane	Ethylbenzene	Isopropylbenzene	m+p-Cresols	Methyl ethyl ketone (2-Butanone)	Methyl-iso-butyl ketone	Methyl-tert-butyl ether	p-Isopropyltoluene	Tetrahydrofuran	Toluene	Xylenes [Total]
104-SD	5/11/2012	n/a	<5	<5	n/a	<10	<10	n/a	57	<10	<5	n/a	n/a	<10	<10	n/a	n/a	n/a	5.5	<5
	11/27/2012	6.56	6.7	6	3.44	<10	<10	n/a	350	<10	11	1.36	n/a	<10	<10	4.4	12.2	617	140	31
	4/11/2013	n/a	24	<0.66	n/a	<3.1	59	n/a	1000	<0.8	24	n/a	n/a	37	<2.7	n/a	n/a	n/a	1800	58
	10/7/2013	n/a	<5	5.4	n/a	19	3000	n/a	920	<10	18	n/a	n/a	1900	47	n/a	n/a	n/a	250	42
	5/28/2014	n/a	<5	<5	n/a	<10	<10	n/a	1300	<10	20	n/a	n/a	<10	<10	n/a	n/a	n/a	73	46
	9/24/2014	<5	<5	<5	n/a	<10	11	<0.1	1200	<10	13	<10	21	<10	<10	<10	<10	63	34	25
	11/20/2014	<5	<5	<5	n/a	<10	<10	<0.1	820	<10	11	<5	<10	<10	<10	<5	<5	231	36.5	21
	2/3/2015	<5	<5	<5	n/a	<10	<10	<0.099	542	<10	10	<5	34	<10	<10	<5	<5	420	26.1	20.4
	5/13/2015	<5	<5	<5	<5	<10	<10	<0.2	672	<10	9.4	<5	20.4	<10	<10	<5	<5	301	25.1	22.7
	8/25/2015	n/a	<5	<5	<5	<10	109	n/a	564	<10	7.3	n/a	n/a	70.9	<10	n/a	n/a	n/a	84.3	22
	11/18/2015	<5	<5	<5	<5	<10	<10	<0.2	640	<10	5.4	<5	67.6	<10	<10	5.4	<5	1560	10.5	19.1
	3/1/2016	n/a	<5	<5	<50	<10	<10	n/a	426	<10	<5	n/a	<10	<10	<10	n/a	n/a	n/a	9.6	19.3
	6/3/2016	<5	<5	<5	<5	<10	<10	<0.2	554	<10	<5	<5	<10	<10	<10	5.2	<5	<1000	8.5	24.4
	8/24/2016	n/a	<5	8.9	n/a	<10	<10	n/a	451	<10	7.3	n/a	n/a	<10	<10	n/a	n/a	n/a	9.3	33.7
	11/9/2016	<25 / <5	<25 / <5	<25 / 6.5	<25 / <5	<50	<50 / <10	<0.2 / <0.2	592 / 564	<50	<25 / <5	<25 / <5	<10 / <10	<50 / <10	<50 / <10	<25 / 5.2	<25 / 9.9	2060E / 2030	<25 / 9.7	<25 / 26.8
	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
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

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

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

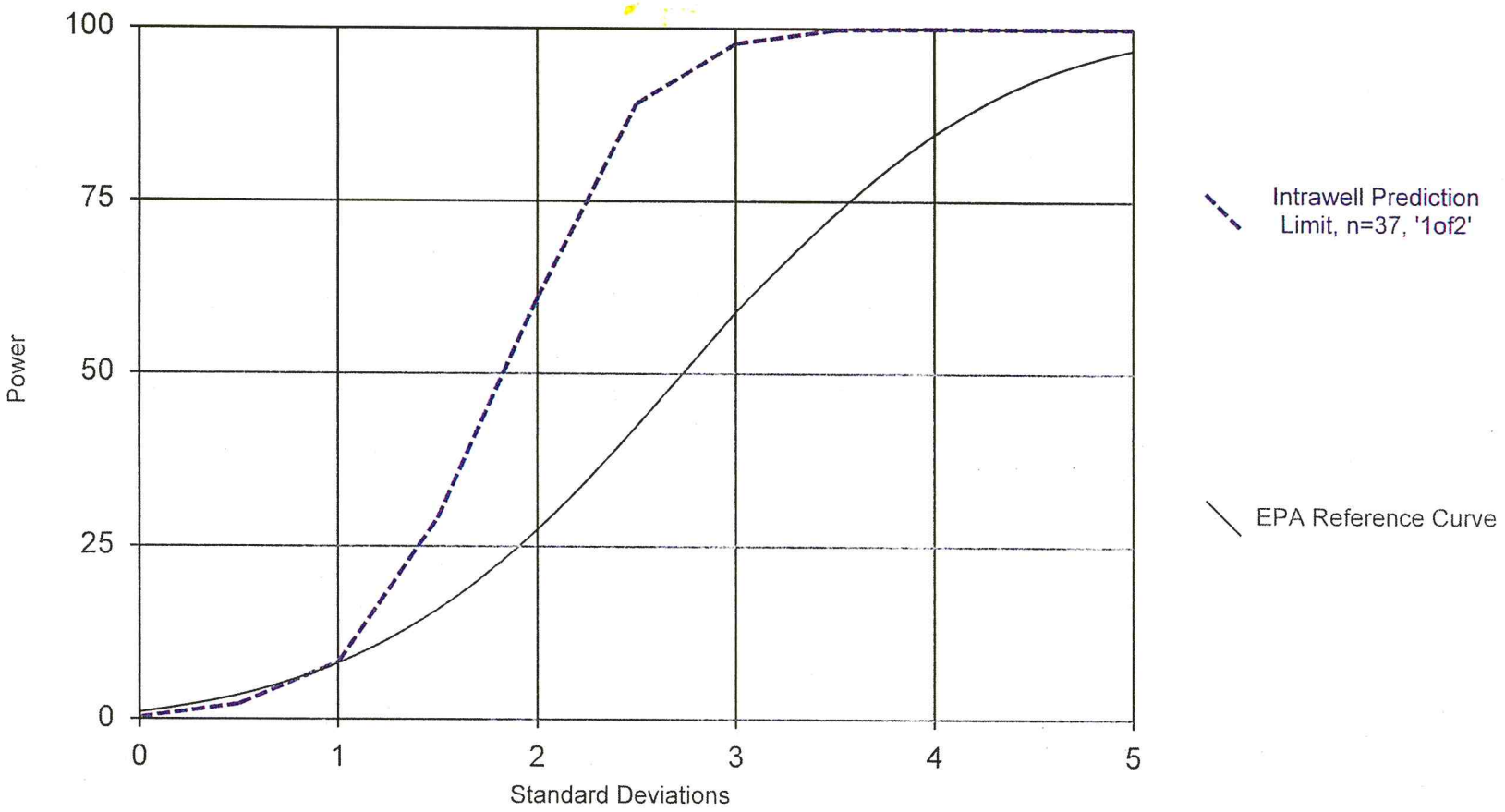
Power Curve



Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve



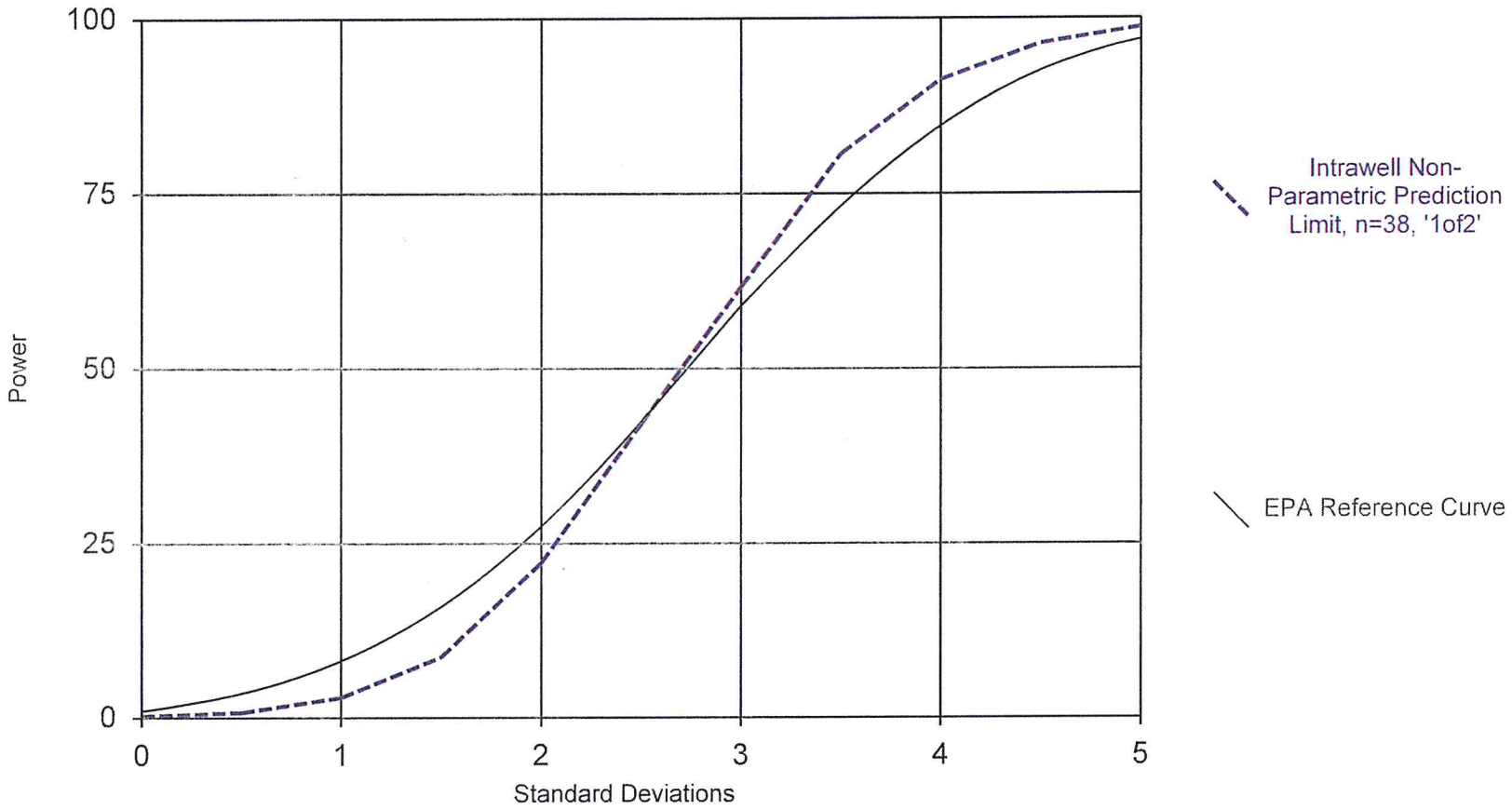
Kappa = 2.092, based on 1 compliance well and 34 constituents, evaluated quarterly (this report reflects annual total).

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

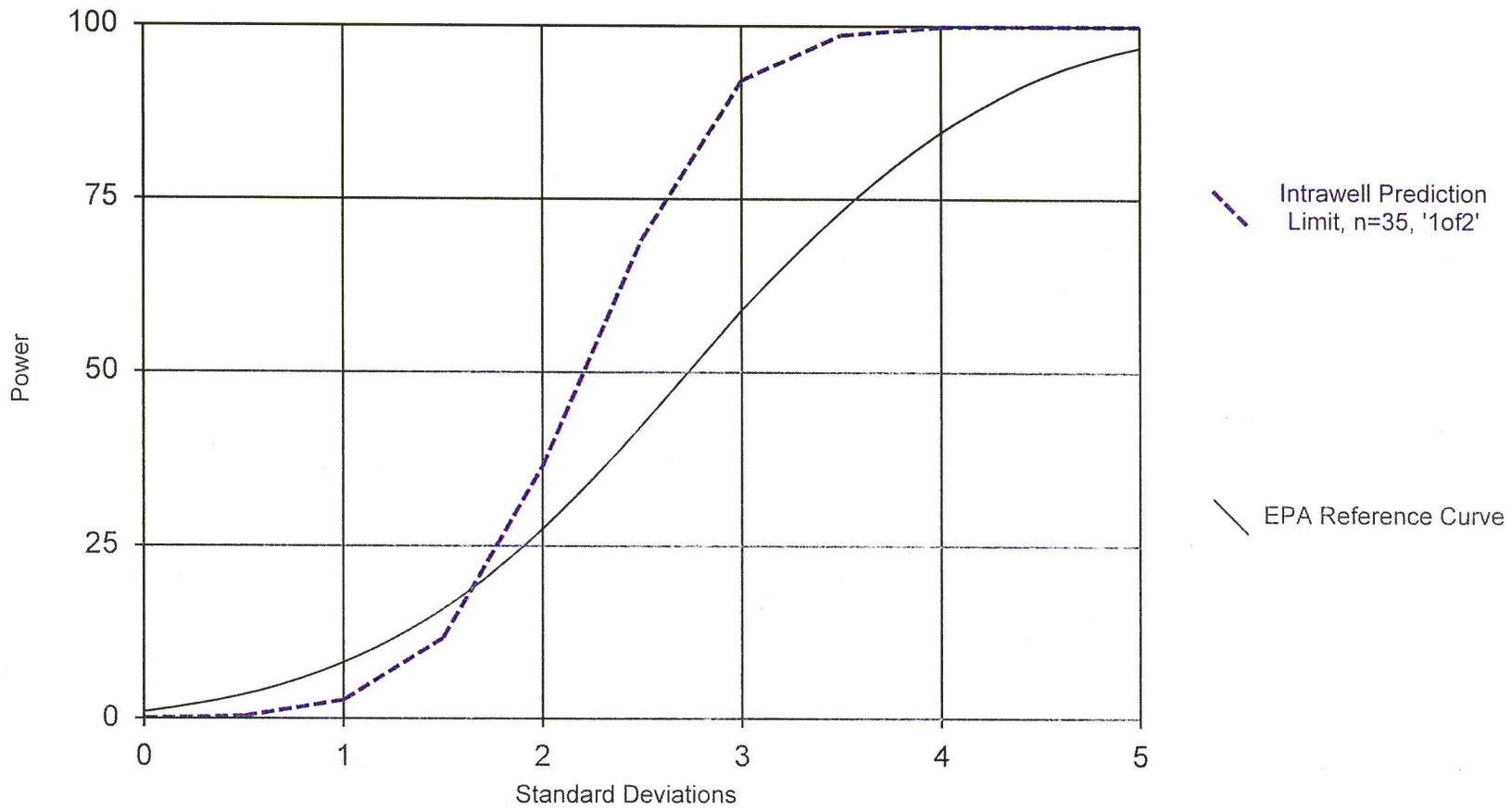
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve



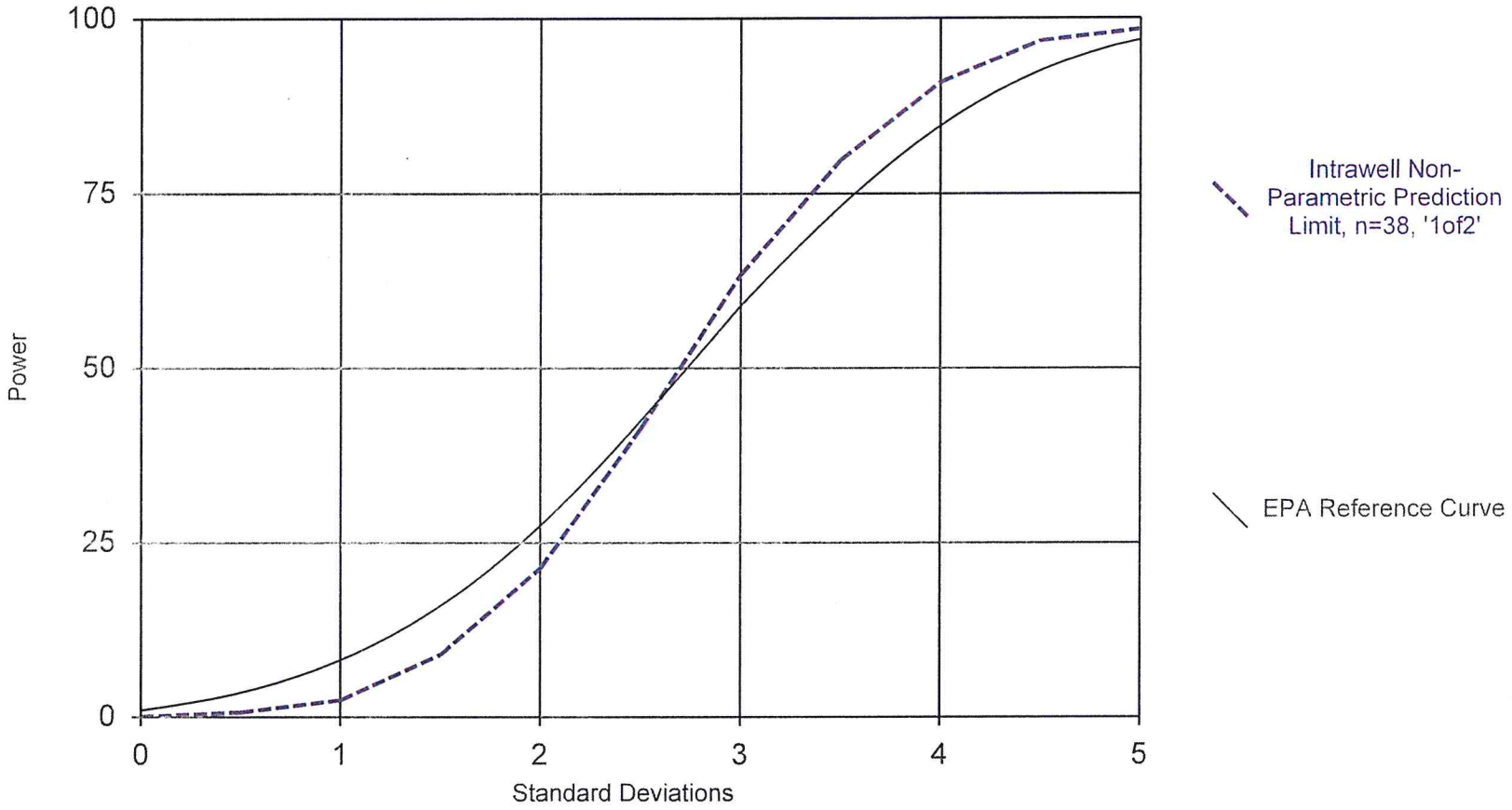
Kappa = 2.466, based on 4 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

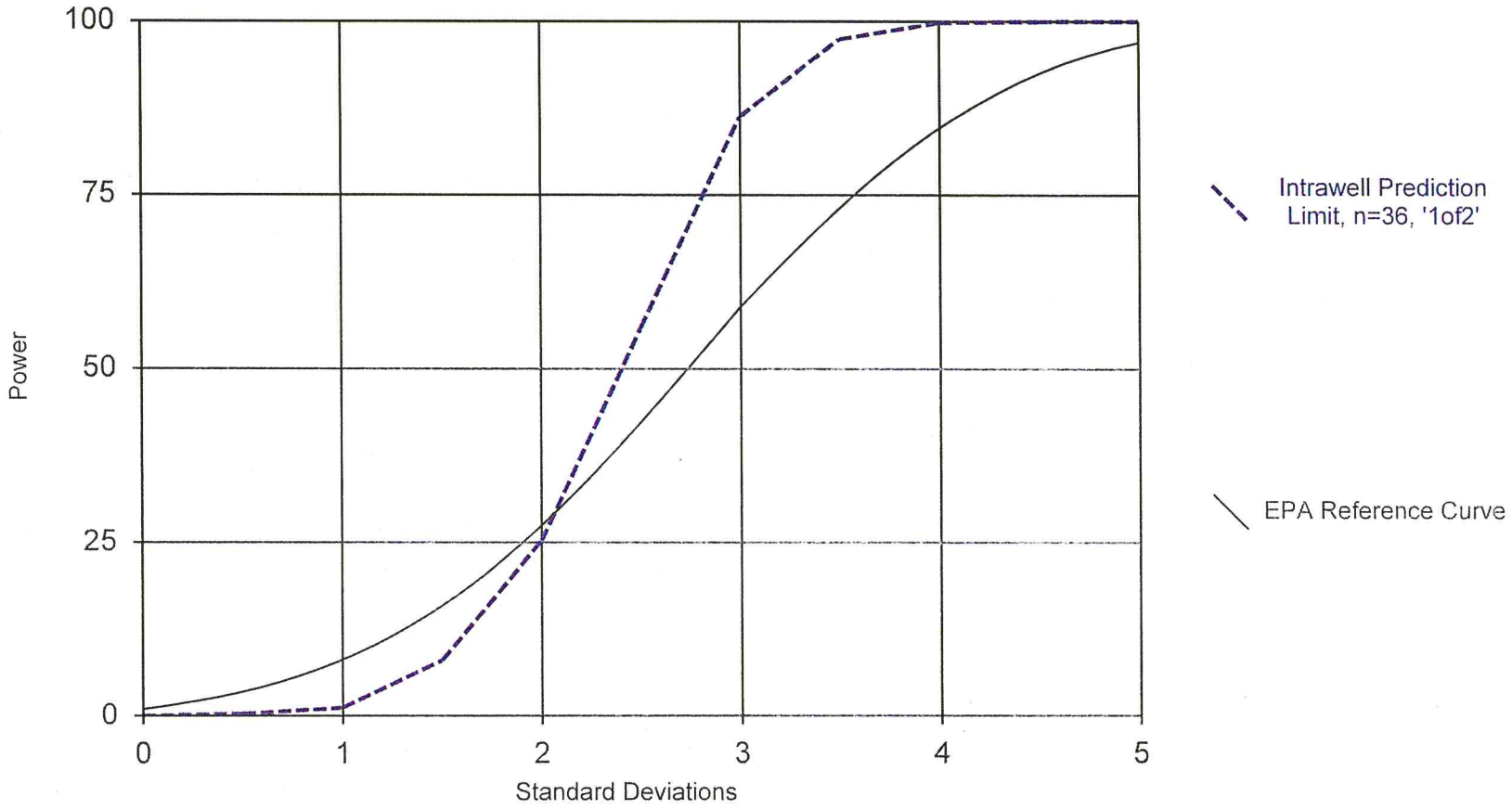
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

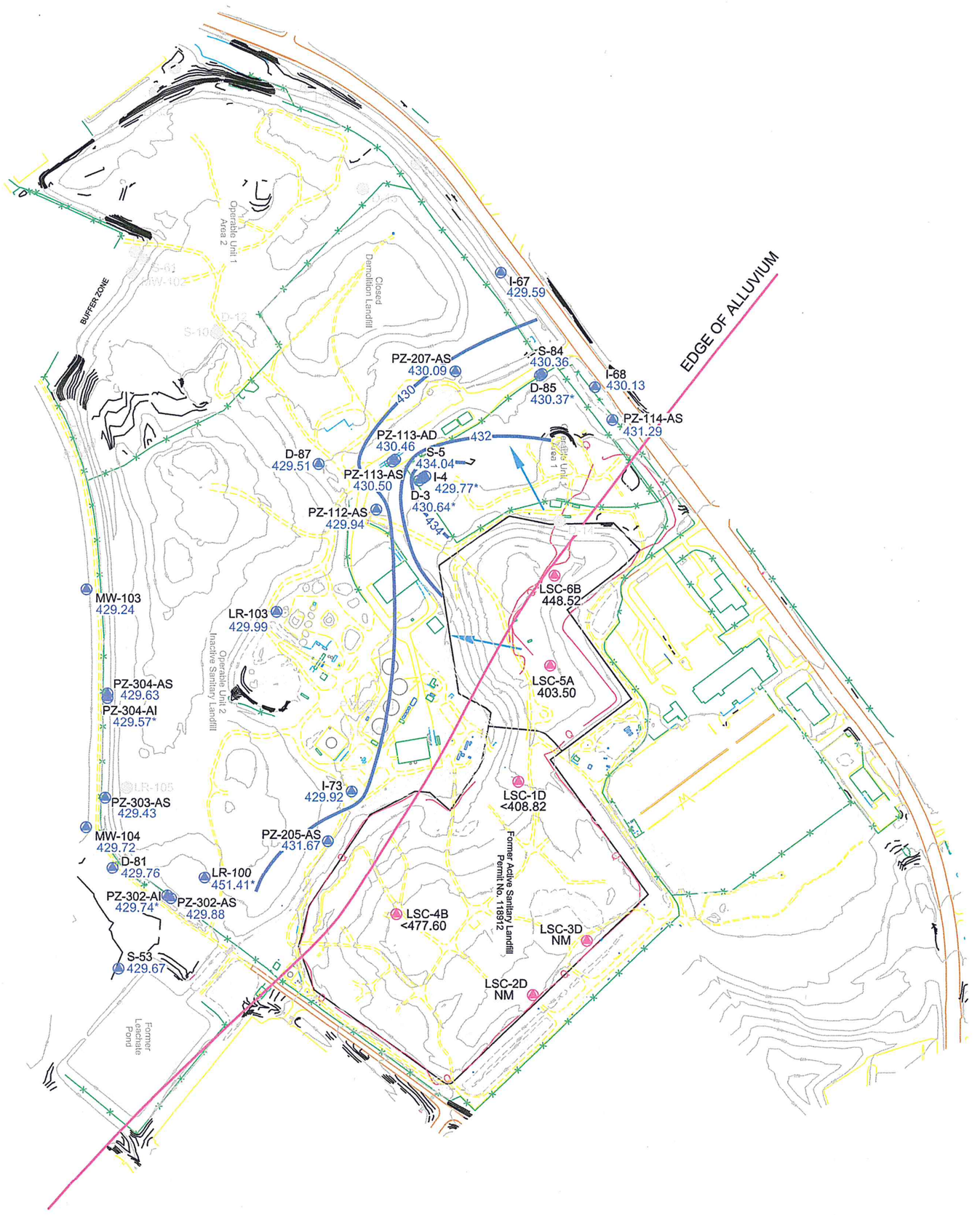


Kappa = 2.654, based on 9 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

APPENDIX B
POTENTIOMETRIC SURFACE MAPS



WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 2/6/17 by Feezor Engineering, Inc.; LCS measurements collected on 2/6/17 by Bridgeton Landfill, LLC.
Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

* Denotes I-4, D-3, D-85, LR-100, PZ-302-AI, and PZ-304-AI not contoured in the well clusters, due to deeper installations.

LEGEND

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

NORTH

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

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

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



WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 2/6/17 by Feezor Engineering, Inc.; LCS measurements collected on 2/6/17 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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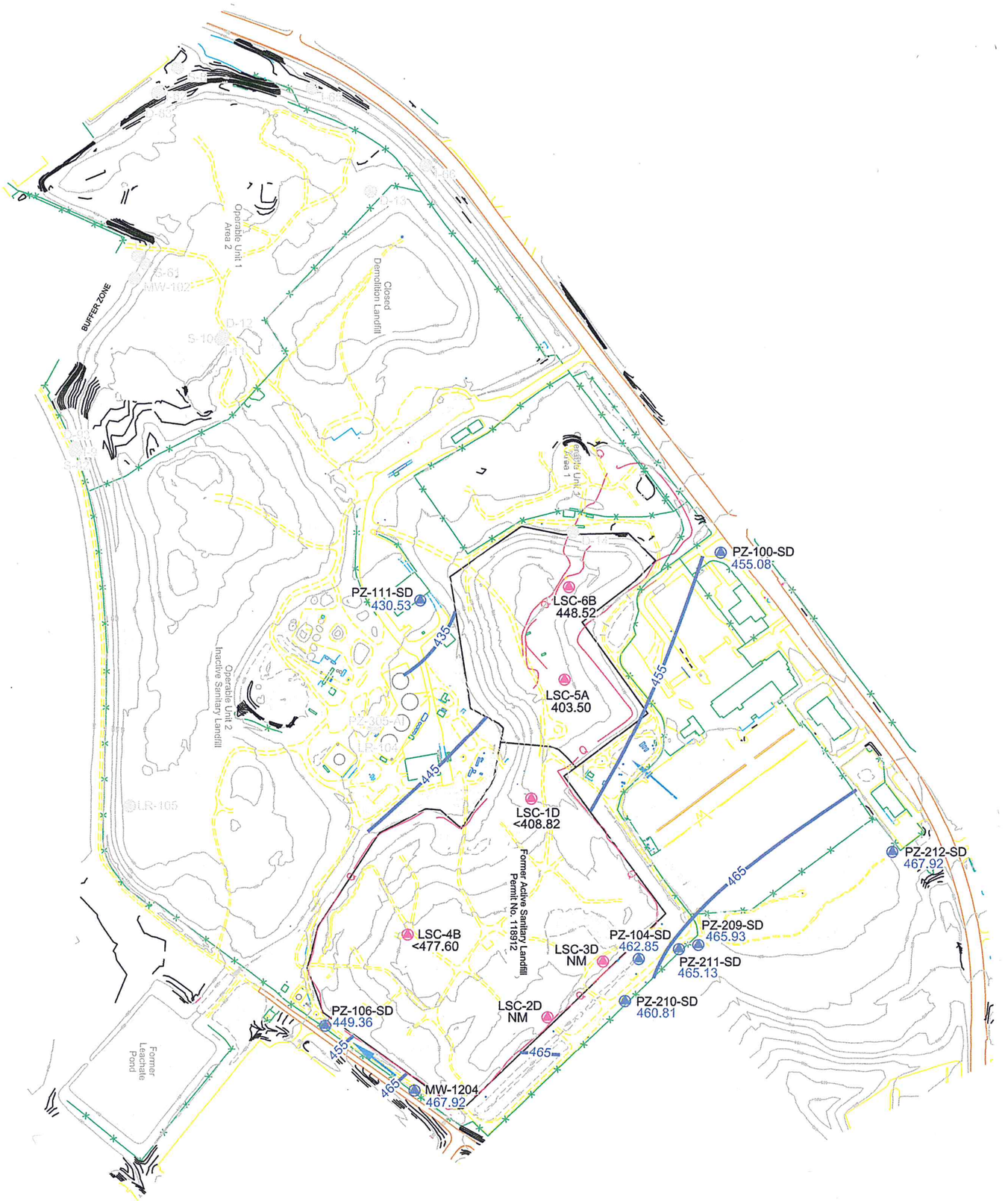
First Quarter 2017
St. Louis/Upper Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 2/6/17 by Feezor Engineering, Inc.;
LCS measurements collected on 2/6/17 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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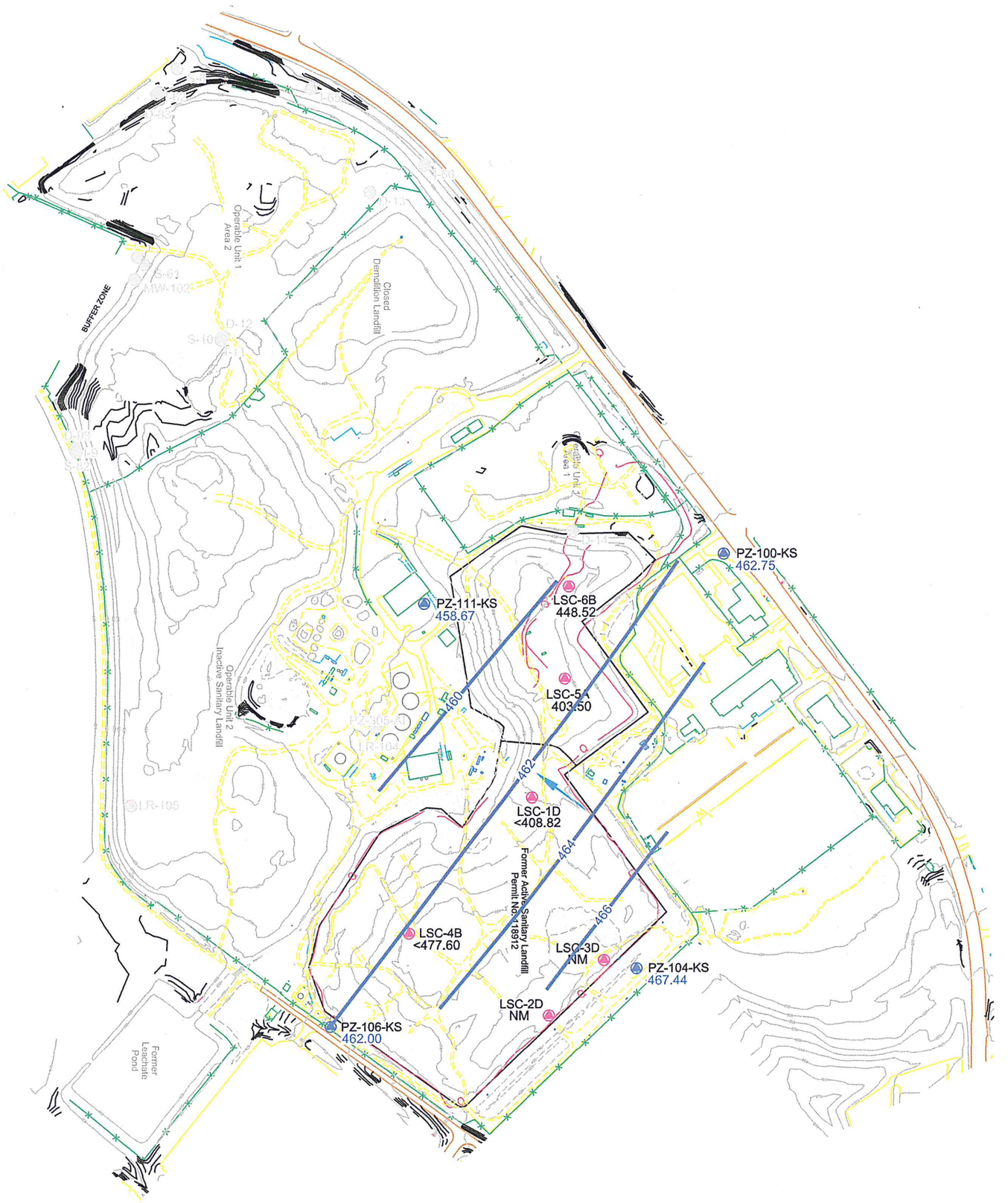
First Quarter 2017
Deep Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri



WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 2/6/17 by Feezor Engineering, Inc.; LCS measurements collected on 2/6/17 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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First Quarter 2017
Keokuk Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

Groundwater Elevation Summary Table
Bridgeton Landfill, LLC

Well	Top of PVC Casing Elevation[1] (fmsl)	Depth to Water[2] (ft)	Groundwater Elevation (fmsl)
Alluvial Zone			
D-3	468.74	38.10	430.64
D-81*	450.87	21.11	429.76
D-85	457.67	27.30	430.37
D-87*	464.41	34.90	429.51
I-4	465.32	35.55	429.77
I-67*	441.78	12.19	429.59
I-68	450.60	20.47	430.13
I-73	461.96	32.04	429.92
LR-100*	468.14	16.73	451.41
LR-103	470.64	40.65	429.99
MW-103*	438.85	9.61	429.24
MW-104*	440.91	11.19	429.72
PZ-112-AS	462.53	32.59	429.94
PZ-113-AD	462.24	31.78	430.46
PZ-113-AS	462.19	31.69	430.50
PZ-114-AS	452.14	20.85	431.29
PZ-205-AS	464.77	33.10	431.67
PZ-207-AS	462.65	32.56	430.09
PZ-302-AI*	451.02	21.28	429.74
PZ-302-AS*	451.33	21.45	429.88
PZ-303-AS*	453.08	23.65	429.43
PZ-304-AI*	453.86	24.29	429.57
PZ-304-AS*	453.61	23.98	429.63
S-5	465.75	31.71	434.04
S-53*	444.18	14.51	429.67
S-84	457.45	27.09	430.36
St. Louis / Upper Salem Zone			
PZ-100-SS	486.55	29.94	456.61
PZ-101-SS	493.08	39.10	453.98
PZ-102R-SS	488.56	26.62	461.94
PZ-102-SS	484.65	22.62	462.03
PZ-103-SS	484.21	16.79	467.42
PZ-104-SS	484.00	20.33	463.67
PZ-105-SS	484.04	23.79	460.25
PZ-106-SS	463.11	13.82	449.29
PZ-107-SS	465.41	34.23	431.17
PZ-109-SS	460.19	22.08	438.11
PZ-110-SS	461.46	31.10	430.36
PZ-113-SS	462.66	31.96	430.70
PZ-115-SS	452.90	15.39	437.51
PZ-116-SS	478.21	12.98	465.23
PZ-200-SS	486.23	22.18	464.05
PZ-201A-SS	482.33	12.75	469.58
PZ-202-SS	481.82	12.14	469.68
PZ-203-SS	487.19	25.05	462.14
PZ-204A-SS	463.09	4.66	458.43
PZ-204-SS	465.28	8.98	456.30
PZ-205-SS	465.83	32.19	433.64
PZ-206-SS	463.42	29.72	433.70
PZ-208-SS	475.19	19.92	455.27
PZ-209-SS	489.68	21.98	467.70
PZ-210-SS	486.90	25.60	461.30
PZ-211-SS	487.41	20.36	467.05
PZ-212-SS	482.79	11.39	471.40
Deep Salem Zone			
MW-1204	478.04	10.12	467.92
PZ-100-SD	486.49	31.41	455.08
PZ-104-SD	484.15	21.30	462.85
PZ-106-SD	463.84	14.48	449.36
PZ-111-SD	466.57	36.04	430.53
PZ-209-SD	489.58	23.65	465.93
PZ-210-SD	487.00	26.19	460.81
PZ-211-SD	487.46	22.33	465.13
PZ-212-SD	482.72	14.80	467.92
Keokuk Zone			
PZ-100-KS	486.36	23.61	462.75
PZ-104-KS	484.60	17.16	467.44
PZ-106-KS	464.73	2.73	462.00
PZ-111-KS	465.80	7.13	458.67

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; and 1/30/2017.

2 - Depth to water measurements recorded by Feezor Engineering, Inc. on 2/6/2017.

** - 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.*

Leachate Elevation Summary Table
Bridgeton Landfill, LLC

Sumps Where Depth to Leachate from Surface is Measured					
Leachate Collection Sump	Ground Surface Elevation[1] (fmsl)	Total Depth of Sump[1] (ft)	Depth to Leachate (ft)	Height of Leachate Above Base of Sump (ft)	Elevation of Leachate (fmsl)
LCS-1D	499.22	247.00	> 92.4[2]	< 154.60[2]	< 408.82[2]
LCS-3D	---[3]	140.00[3]	5.00	135.00	NM[3]
LCS-4B	551.60	256.60	> 74.00[2]	< 182.60[2]	< 477.60[2]

Sumps Where Height of Leachate Above Transducer is Measured					
Leachate Collection Sump	Elevation of Base of Sump[1] (fmsl)	Height of Transducer Above Base of Sump (ft)	Height of Leachate Above Transducer (ft)	Height of Leachate Above Base of Sump (ft)	Elevation of Leachate (fmsl)
LCS-2D	235.92	14.40	NM[4]	NM[4]	NM[4]
LCS-5A	235.40	104.10	64.00	168.10	403.50
LCS-6B	429.52	9.40	9.60	19.00	448.52

Notes:
Depths and heights of leachate recorded by Bridgeton Landfill personnel on 2/6/17.
1 - Ground surface elevations, sump total depths, and base of sump elevations are from as-built diagrams unless otherwise noted; LCS-1D - Aquaterra, 10/7/2009; LCS-2D - Aquaterra, 12/19/2008; LCS-4B - Aquaterra, 1/22/2010; LCS-5A - Aquaterra, 11/21/2005; LCS-6B - Aquaterra, 1/4/2010.
2 - Depth to leachate at LCS-1D and LCS-4B was greater than the transducer during 2/6/17 event. Exact depths and elevations not available.
3 - LCS-3D not surveyed. As-built not available. Total depth provided by Bridgeton landfill, LLC.
4 - The transducer at LCS-2D was not operational during the 2/6/17 event. Scheduled for maintenance.

FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
D-3	2/6/2017	1336	38.10	35.45	107.65	107.69	
D-81	"	1446	21.11	18.36	62.49	62.55	
D-85		0812	27.30	24.42	76.73	76.74	
D-87		0910	34.90	32.14	115.15	115.06	
I-4		1338	35.55	32.82	35.85	35.96*	*Apparent blockage in PVC.
I-67		0821	12.19	9.19	40.45	40.45	
I-68		0827	20.47	17.55	40.47	40.46	
I-73		1143	32.04	29.50	50.56	50.55	
LR-100		1138	16.73	16.27	26.98	26.99	
LR-103		1400	40.65	38.05	49.81	49.82	
MW-103		1508	9.61	6.51	14.40	14.41	
MW-104		1450	11.19	8.39	18.95	19.15	
MW-1204		1039	10.12	8.77	215.21	215.18	
PZ-100-KS		0848	23.61	23.38	N/A	383.68	
PZ-100-SD		0845	31.41	32.55	96.27 (Top of Pump)	96.42 (Top of Pump)	
PZ-100-SS		0842	29.94	29.89	89.34 (Top of Pump)	89.12 (Top of Pump)	
PZ-101-SS		0929	39.10	39.19	157.35	155.43	Well extended January 2017
PZ-102-SS		0938	22.62	22.00	91.27	91.28	TD: 91.27
PZ-102R-SS		0935	26.62	21.71	94.03	90.94	Well extended January 2017
PZ-103-SS		0942	16.79	15.96	149.63	149.62	
PZ-104-KS		1011	17.16	16.58	93.01 (Top of Pump)	93.09 (Top of Pump)	
PZ-104-SD		1015	21.30	20.81	120.61 (Top of Pump)	120.68 (Top of Pump)	
PZ-104-SS		1018	20.33	19.94	140.54 (Top of Pump)	140.32 (Top of Pump)	
PZ-105-SS		1034	23.79	23.33	~~144.83~~ (W) (Top of Pump)	144.86 (Top of Pump)	144.63 - Top of pump
PZ-106-KS		1049	2.73	2.59	N/A	375.00	
PZ-106-SD		1050	14.48	13.82	196.47 (Top of Pump)	196.48 (Top of Pump)	
PZ-106-SS		1054	13.82	13.21	161.40 (Top of Pump)	161.42 (Top of Pump)	
PZ-107-SS	"	1120	34.23	31.60	103.72	103.80	
PZ-109-SS	2/6/2017	1149	22.08	28.11	130.92 (Top of Pump)	130.98 (Top of Pump)	

FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
PZ-110-SS	2/6/2017	1155 @ ~~1055~~	31.10	28.76	107.19 (Top of Pump)	107.19 (Top of Pump)	
PZ-111-KS		1200	7.13	7.05	N/A	374.61	
PZ-111-SD		1202	36.04	34.19	197.16 (Top of Pump)	197.20 (Top of Pump)	
PZ-112-AS		0923	32.59	29.90	38.35	38.35	
PZ-113-AD		1211	31.78	29.07	109.95	110.11	
PZ-113-AS		1210	31.69	28.98	39.18	38.95	
PZ-113-SS		1214	31.96	29.35	160.27	160.25	
PZ-114-AS		0835	20.85	18.01	26.29 (Top of Pump)	26.32 (Top of Pump)	
PZ-115-SS		0832	15.39	15.05	81.04 (Top of Pump)	81.11 (Top of Pump)	
PZ-116-SS		1043	12.98	11.56	142.68 (Top of Pump)	142.60 (Top of Pump)	
PZ-200-SS		0853	22.18	21.59	99.28	99.29	Labeled as GMP-7.
PZ-201A-SS		0859	12.75	11.82	86.09 (Top of Pump)	86.12 (Top of Pump)	
PZ-202-SS		0958	12.14	11.44	85.19 (Top of Pump)	85.15 (Top of Pump)	
PZ-203-SS		1029	25.05	24.76	111.30	111.12	
PZ-204-SS		1428	8.98	7.93	87.98	87.99	
PZ-204A-SS		1426	4.66	4.45	84.62	84.51	
PZ-205-AS		1124	33.10	30.26	53.83	53.89	
PZ-205-SS		1130	32.19	30.20	92.84 (Top of Pump)	92.98 (Top of Pump)	
PZ-206-SS		1354	29.72	28.75	129.84	129.87	
PZ-207-AS		0808	32.56	29.72	38.97	38.93	
PZ-208-SS		0906	19.92	19.75	100.30	100.37	
PZ-209-SD		0950	23.65	23.09	101.33 (Top of Pump)	101.42 (Top of Pump)	
PZ-209-SS		0953	21.98	21.55	99.88 (Top of Pump)	99.81 (Top of Pump)	
PZ-210-SD		1025	26.14	25.69	101.72 (Top of Pump)	101.65 (Top of Pump)	
PZ-210-SS		1023	25.60	25.11	101.48 (Top of Pump)	101.49 (Top of Pump)	
PZ-211-SD		1006	22.33	21.74	99.29 (Top of Pump)	99.33 (Top of Pump)	
PZ-211-SS		1004	20.36	20.04	98.13 (Top of Pump)	98.15 (Top of Pump)	
PZ-212-SD		1412	14.80	14.30	92.75 (Top of Pump)	92.80 (Top of Pump)	
PZ-212-SS	2/6/2017	1414	11.39	10.24	93.88 (Top of Pump)	93.74 (Top of Pump)	

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Engineering for a Better World
FEEZOR ENGINEERING, INC.

GROUNDWATER ELEVATION MEASUREMENTS

Site: Bridgeton Landfill, Bridgeton, Missouri

Personnel: Michael Spurgeon & Jonathan Wilkinson

Well ID	Date	Time	Depth to Water (ft)	Depth to Water Previous Event (ft)	Total Depth (ft)	Total Depth Previous Event (ft)	Notes
PZ-302-AI	2/6/2017	1442	21.28	18.59	44.15	44.15	
PZ-302-AS	"	1440	21.45	18.72	24.49	24.50	
PZ-303-AS		1455	23.65	21.08	28.26	28.25	
PZ-304-AI		1502	24.29	21.56	51.99	51.98	
PZ-304-AS		1504	23.98	21.28	29.21	29.21	
S-5		1340	31.71	31.20	43.45	43.62	
S-53		1435	14.51	11.72	18.02	18.02	
S-84	2/6/2017	0815	27.09	24.11	32.72	32.74	

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APPENDIX C
STATISTICAL EVALUATIONS
ALLUVIAL ZONE

TREND EVALUATION OF BACKGROUND DATA

Trend Test

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

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

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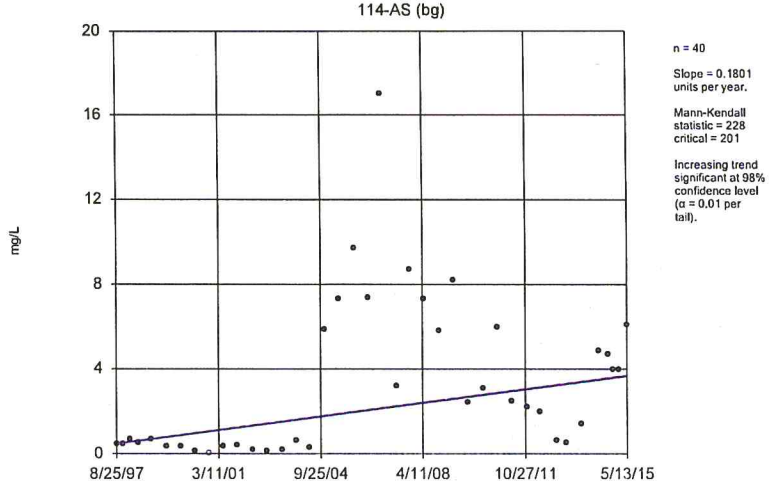
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 0.1801 units per year.

Mann-Kendall statistic = 228
critical = 201

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

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

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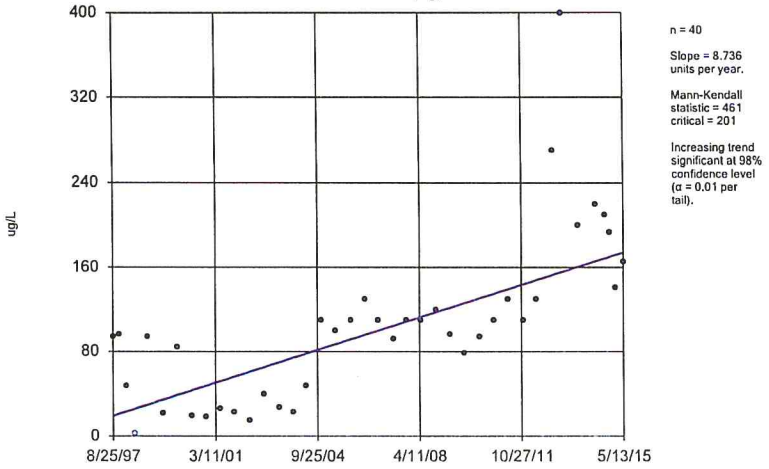
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 8.736 units per year.

Mann-Kendall statistic = 461
critical = 201

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

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

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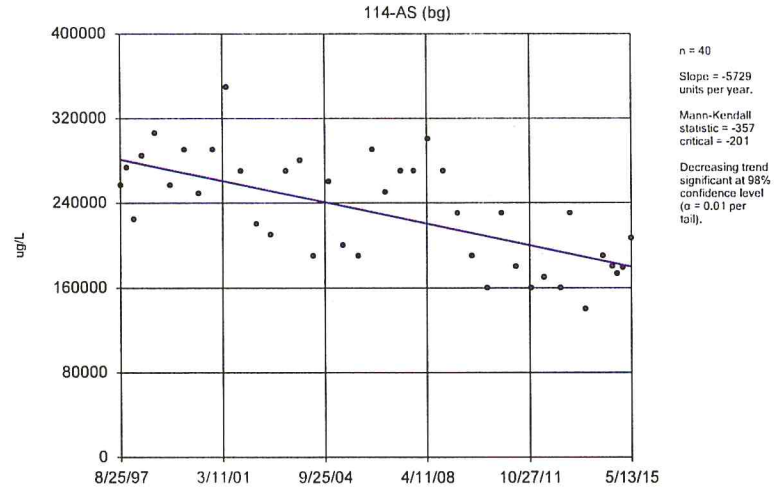
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -5729 units per year.

Mann-Kendall statistic = -357
critical = -201

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

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

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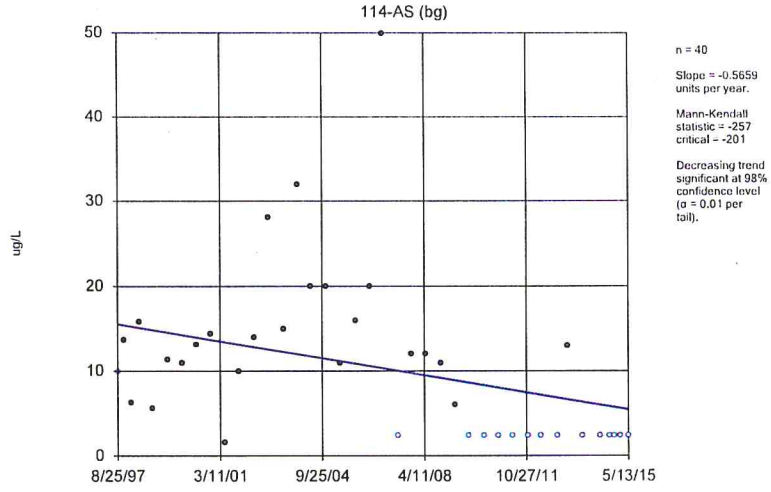
Hollow symbols indicate censored values.

Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -0.5659 units per year.

Mann-Kendall statistic = -257
critical = -201

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

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

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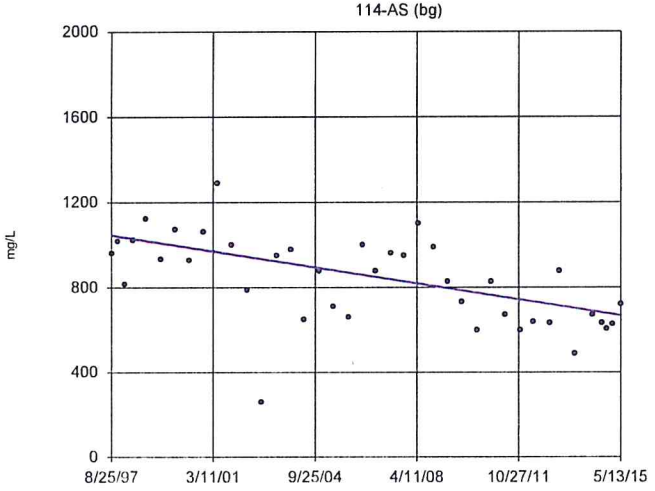
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -21.28 units per year.

Mann-Kendall statistic = -349
critical = -201

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

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

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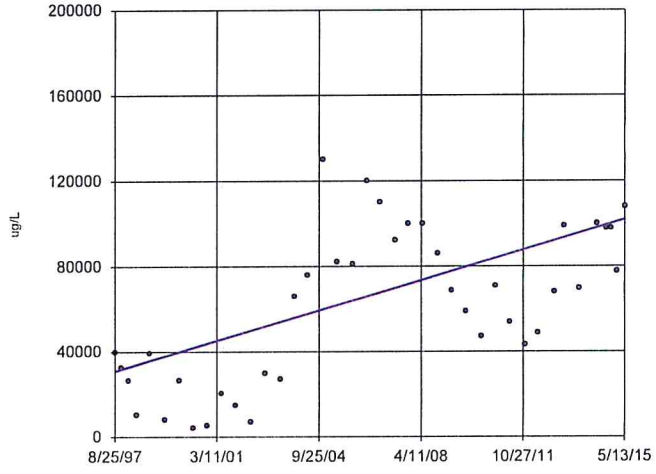
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = 4003 units per year.

Mann-Kendall statistic = 315
critical = 201

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

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

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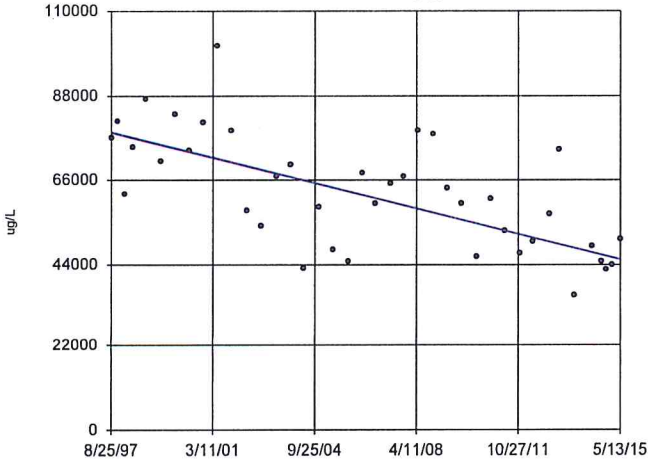
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -1865 units per year.

Mann-Kendall statistic = -374
critical = -201

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

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

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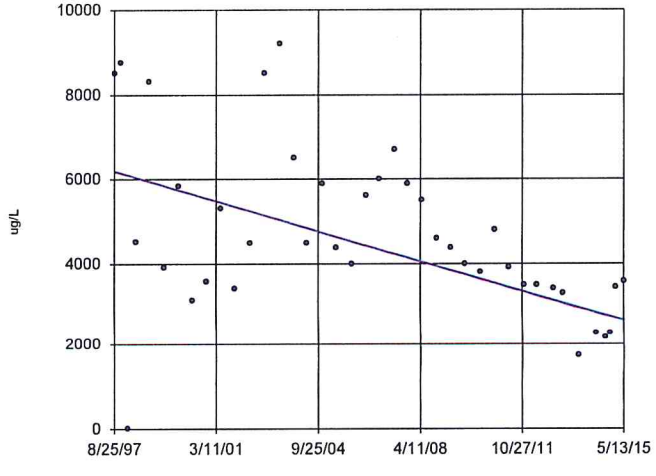
Sen's Slope Estimator

114-AS (bg)



n = 40

Slope = -200.1 units per year.

Mann-Kendall statistic = -316
critical = -201

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

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

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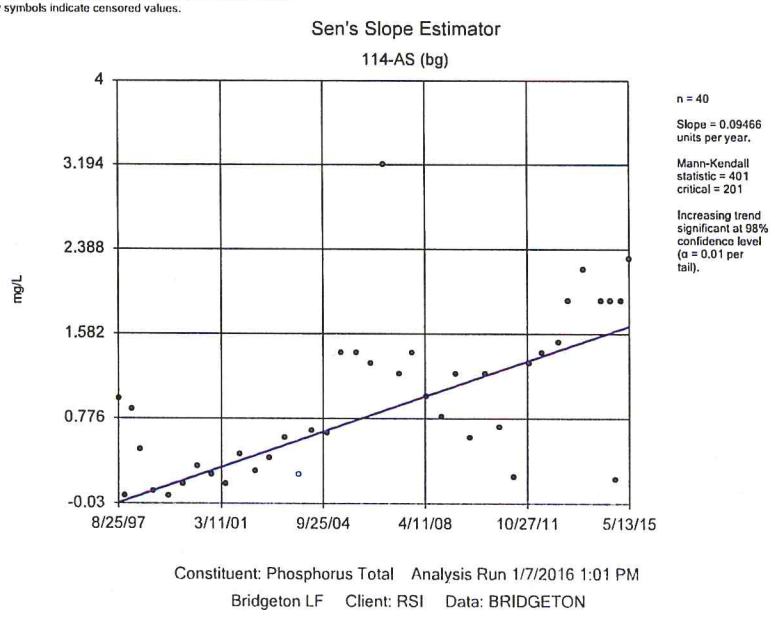
Hollow symbols indicate censored values.



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

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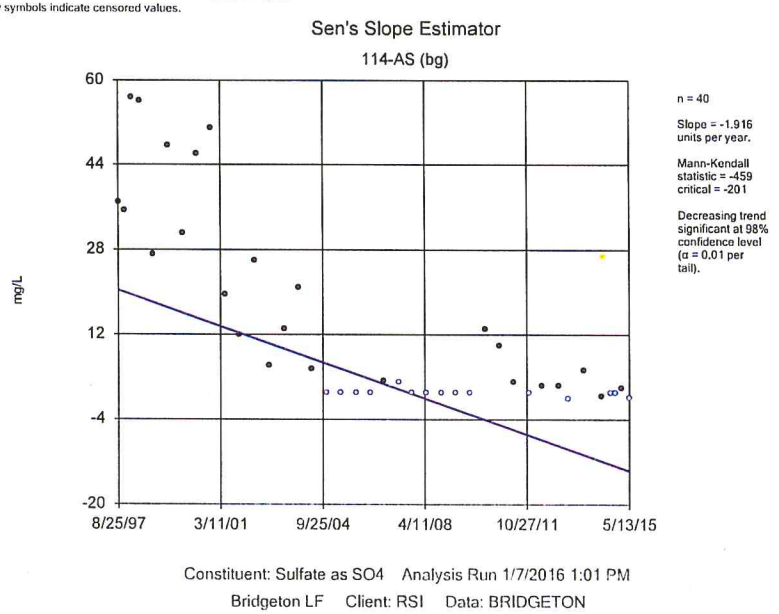
Hollow symbols indicate censored values.



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

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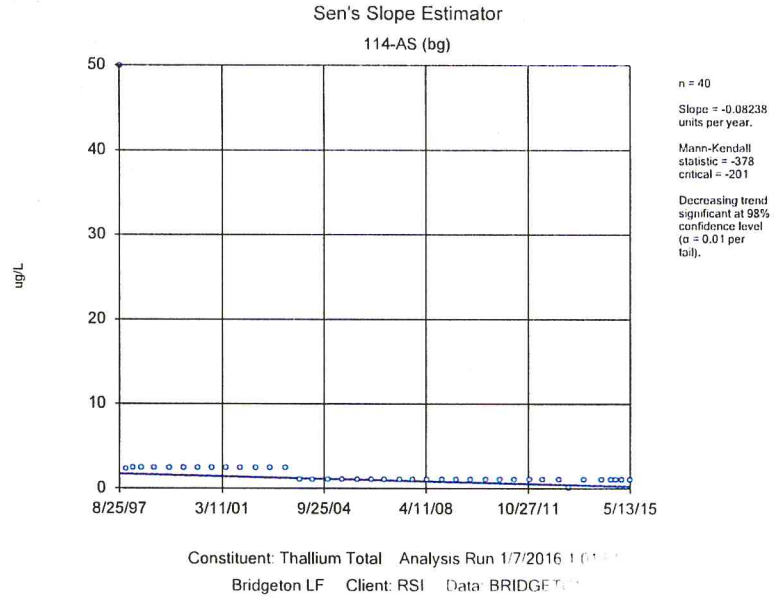
Hollow symbols indicate censored values.



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

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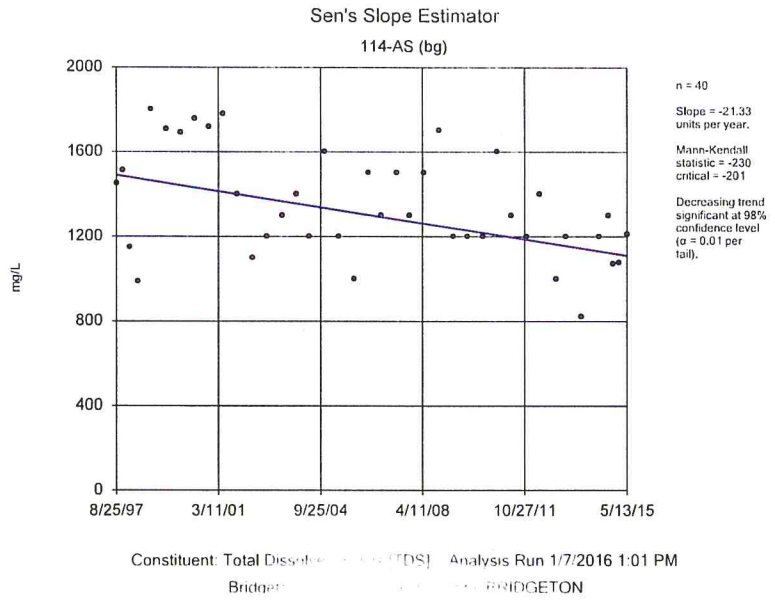

Constituent: Total Dissolved [illegible] [DS] Analysis Run 1/7/2016 1:01 PM
Bridgeton [illegible] BRIDGETON

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 3/14/2017, 7:01 AM

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	50	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	114-AS	1100	n/a	2/17/2017	991	No	44	9.047	0.6436	0	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Beryllium Total (ug/L)	114-AS	1.0	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	114-AS	660	n/a	2/17/2017	203	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Cadmium Total (ug/L)	114-AS	5.9	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	114-AS	340000	n/a	2/17/2017	202000	No	44	476.8	51.66	0	None	sqrt(x)	0.0007744	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	114-AS	320	n/a	2/17/2017	39.2	No	44	3.933	0.8907	6.818	None	ln(x)	0.0007744	Param Intra 1 of 2
Chloride (mg/L)	114-AS	570	n/a	2/17/2017	400	No	44	353.4	106.4	0	None	No	0.0007744	Param Intra 1 of 2
Chromium Total (ug/L)	114-AS	5.4	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	114-AS	50	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	43.18	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Copper Total (ug/L)	114-AS	110	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	114-AS	1.2	n/a	2/17/2017	0.14	No	30	n/a	n/a	16.67	n/a	n/a	0.00199	NP Intra (normality) 1 of 2
Hardness Total (mg/L)	114-AS	1200	n/a	2/17/2017	709	No	44	816.8	200.1	0	None	No	0.0007744	Param Intra 1 of 2
Lead Total (ug/L)	114-AS	25	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	114-AS	98000	n/a	2/17/2017	49500	No	44	11	0.2427	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Manganese Total (ug/L)	114-AS	8600	n/a	2/17/2017	4400	No	44	4528	1997	0	None	No	0.0007744	Param Intra 1 of 2
Mercury Total (ug/L)	114-AS	0.10	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	114-AS	84	n/a	2/17/2017	5ND	No	44	n/a	n/a	65.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	114-AS	5.0	n/a	2/17/2017	0.05ND	No	44	n/a	n/a	84.09	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
pH [Field] (su)	114-AS	6.9	6.3	2/17/2017	6.55	No	40	1.887	0.02464	0	None	ln(x)	0.0003872	Param Intra 1 of 2
Selenium Total (ug/L)	114-AS	50	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	114-AS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	114-AS	320000	n/a	2/17/2017	169000	No	44	12.08	0.2859	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	114-AS	3400	n/a	2/17/2017	2260	No	43	2322	507.9	0	None	No	0.0007744	Param Intra 1 of 2
Sulfate (mg/L)	114-AS	57	n/a	2/17/2017	1	No	44	n/a	n/a	38.64	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Thallium Total (ug/L)	114-AS	50	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	114-AS	1900	n/a	2/17/2017	1350	No	44	7.182	0.1805	0	None	ln(x)	0.0007744	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	114-AS	42	n/a	2/17/2017	7.6	No	44	2.255	0.5969	9.091	None	x^(1/3)	0.0007744	Param Intra 1 of 2
Vanadium Total (ug/L)	114-AS	12	n/a	2/17/2017	5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	114-AS	48	n/a	2/17/2017	10ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2

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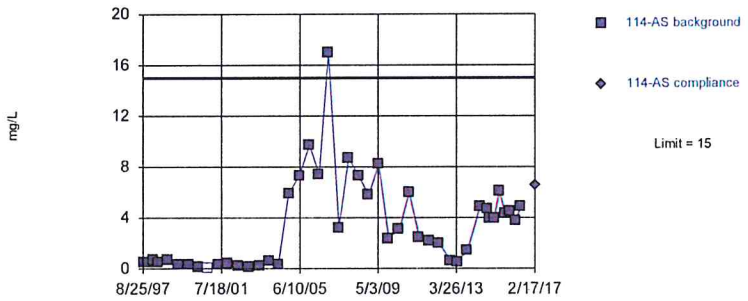
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=1.295, Std. Dev.=0.5582, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.934, critical = 0.924. Kappa = 2.06 (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: Ammonia as N Analysis Run 3/14/2017 6:59 AM

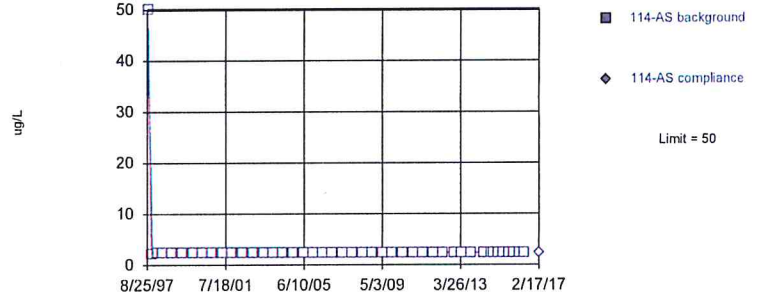
Bridgeton LF Client: RSI Data: Bridgeton LF

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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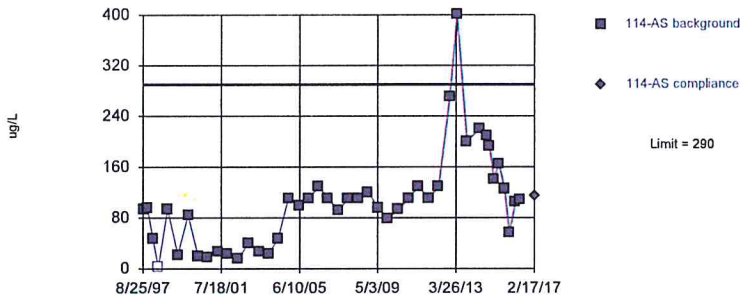
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=9.58, Std. Dev.=3.658, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9563, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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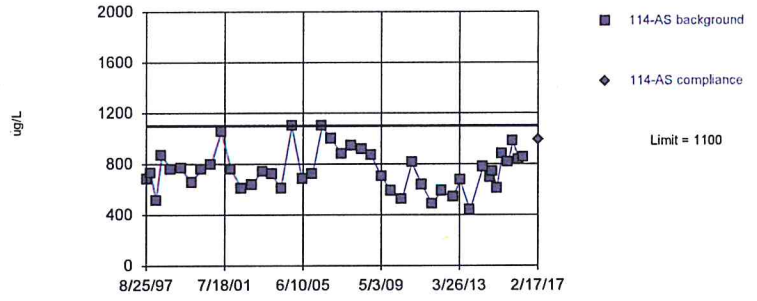
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=9.047, Std. Dev.=0.6436, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9837, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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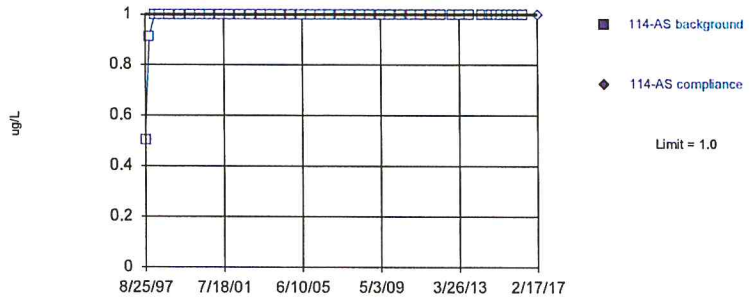
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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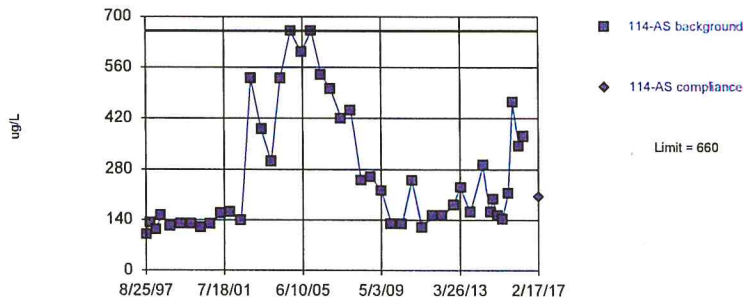
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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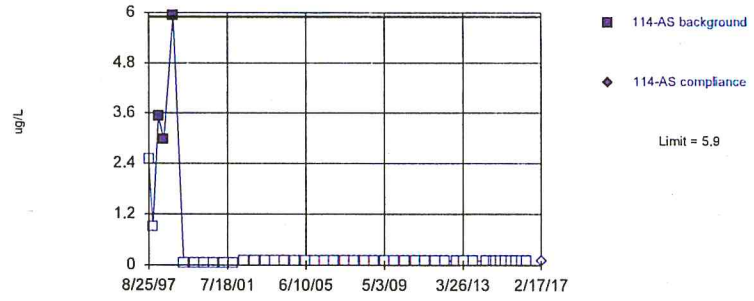
Hollow symbols indicate censored values.

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 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI

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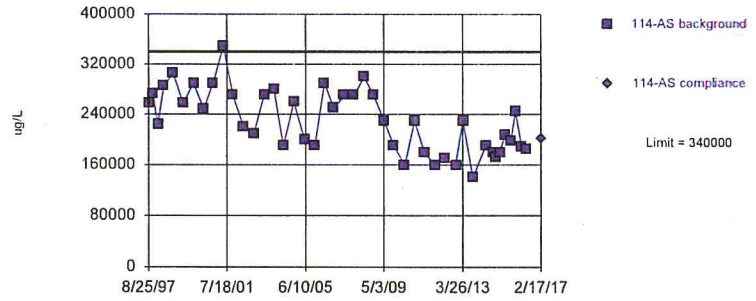
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=476.8, Std. Dev.=51.66, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9582, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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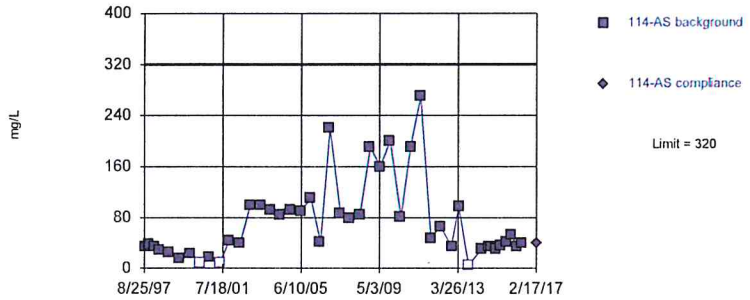
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.933, Std. Dev.=0.8907, n=44, 6.818% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9544, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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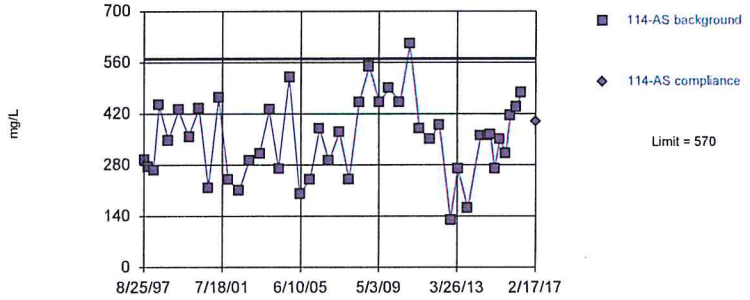
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=353.4, Std. Dev.=106.4, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9845, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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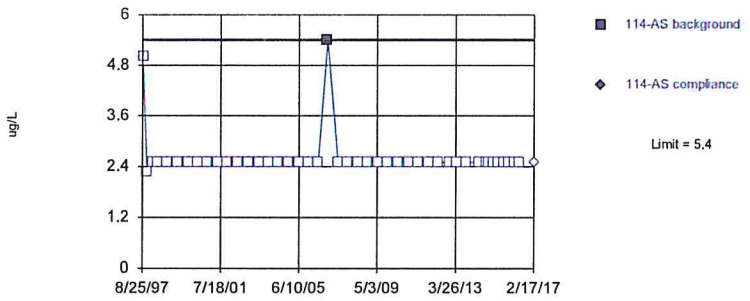
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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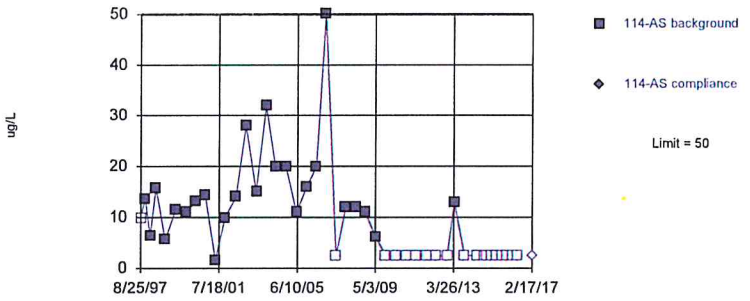
Hollow symbols indicate censored values.

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 44 background values. 43.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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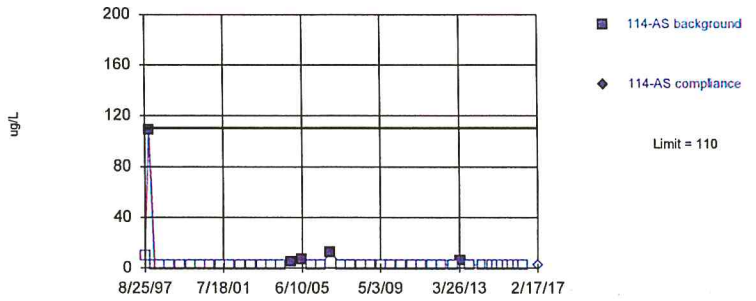
Hollow symbols indicate censored values.

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 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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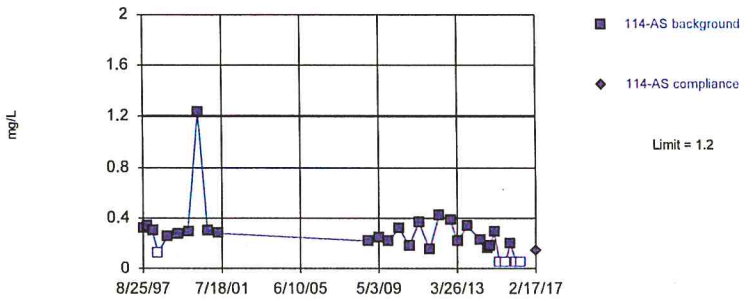
Hollow symbols indicate censored values.

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 30 background values. 16.67% NDs. Well-constituent pair annual alpha = 0.007937. Individual comparison alpha = 0.00199 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Fluoride Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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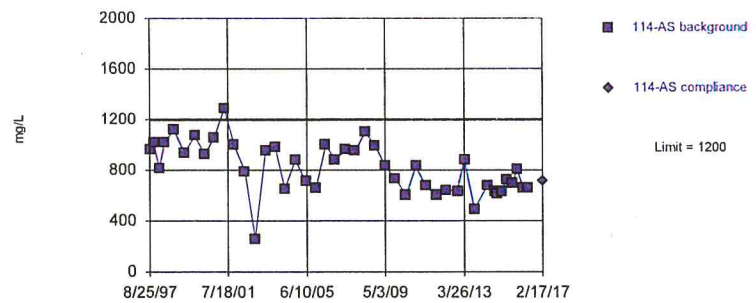
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=816.8, Std. Dev.=200.1, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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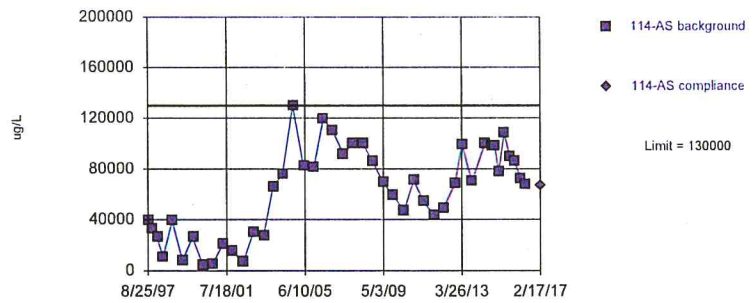
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=62755, Std. Dev.=34641, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9489, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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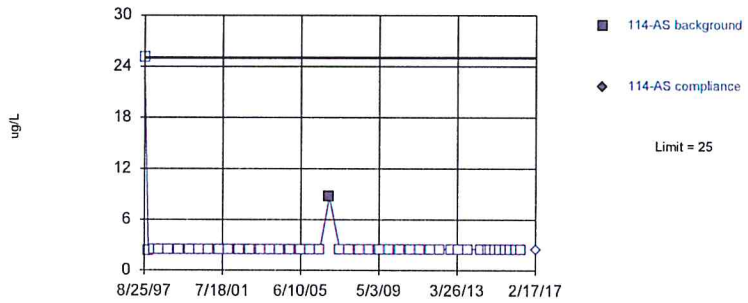
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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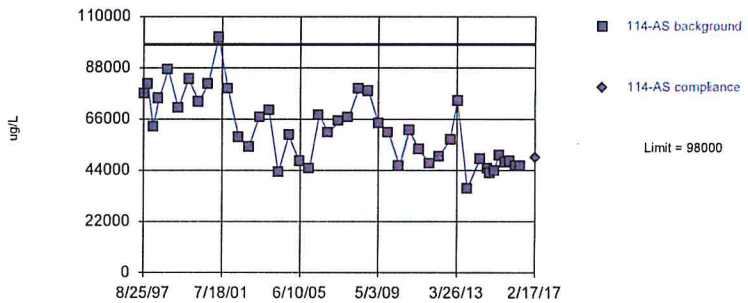
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11, Std. Dev.=0.2427, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9604, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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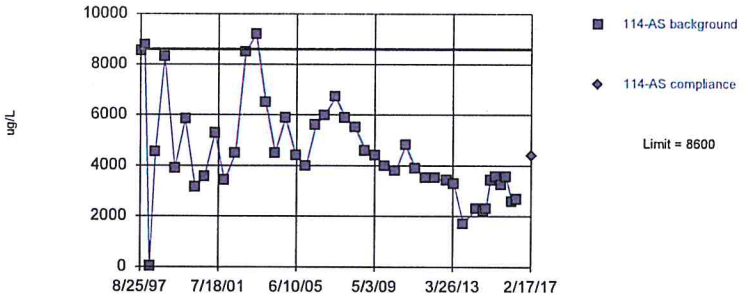
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4528, Std. Dev.=1997, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.924. Kappa = 2.06 (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: Manganese Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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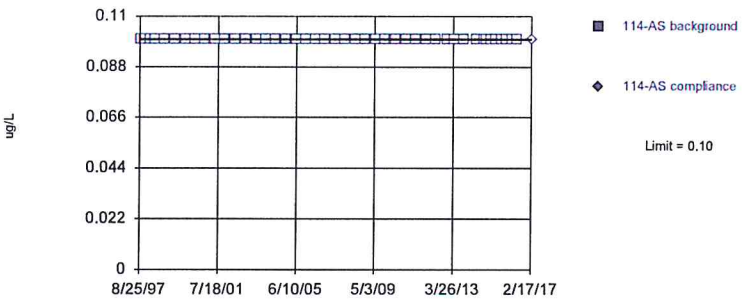
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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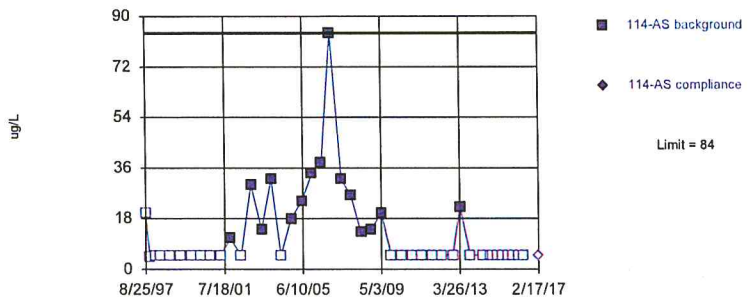
Hollow symbols indicate censored values.

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 44 background values. 65.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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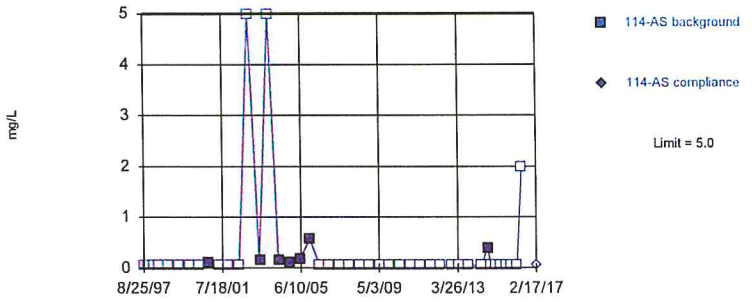
Hollow symbols indicate censored values.

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 44 background values. 84.09% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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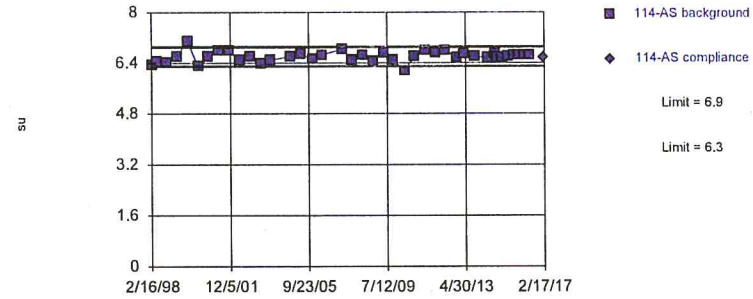
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.887, Std. Dev.=0.02464, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9703, 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. Four background outliers were removed: 5.8 (8/25/1997); 5.91 (11/10/1997); 7.5 (5/11/2004); 7.21 (11/8/2006).

Constituent: pH [Field] Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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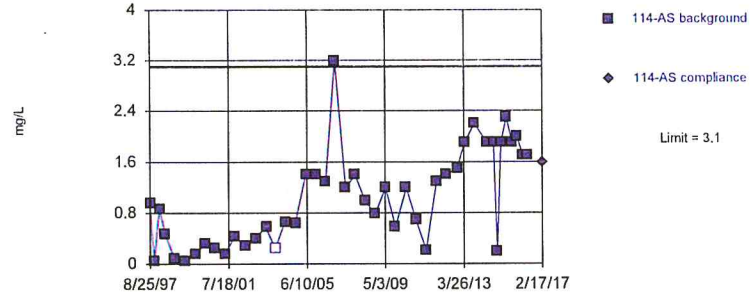
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.9434, Std. Dev.=0.3989, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9574, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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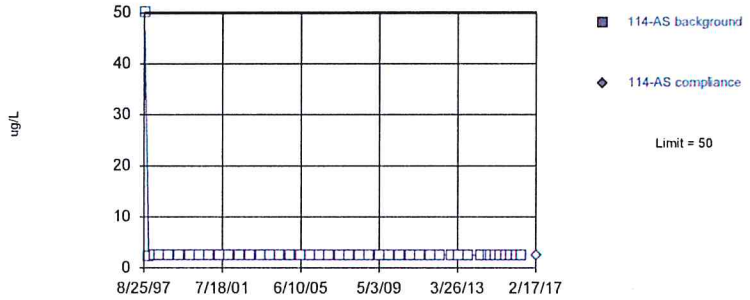
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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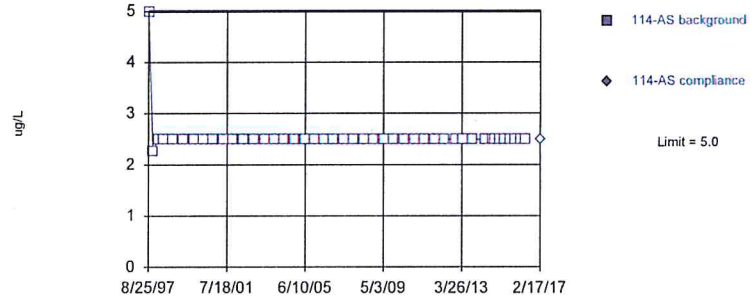
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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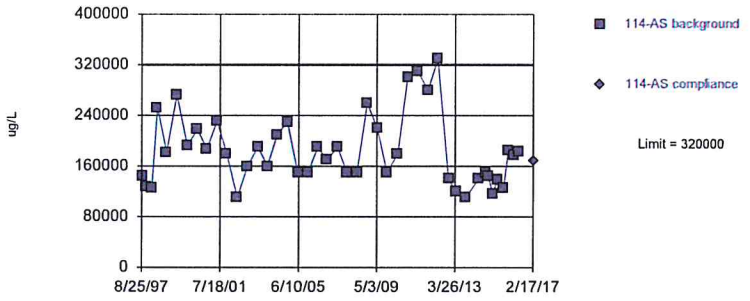
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=12.08, Std. Dev.=0.2859, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9565, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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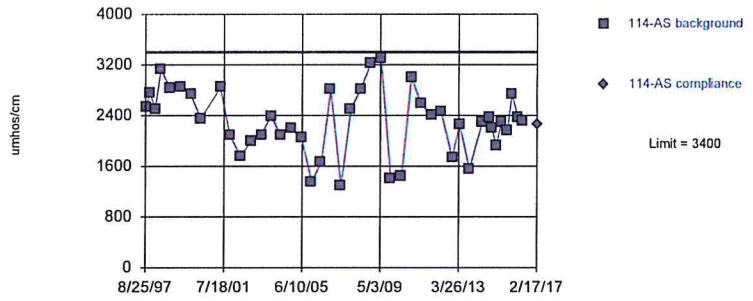
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2322, Std. Dev.=507.9, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9687, critical = 0.923. Kappa = 2.064 (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 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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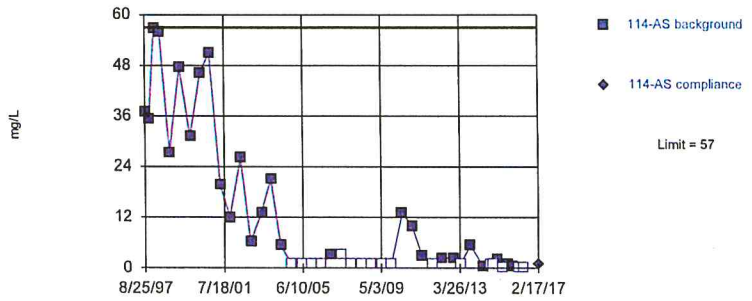
Hollow symbols indicate censored values.

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 44 background values. 38.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sulfate Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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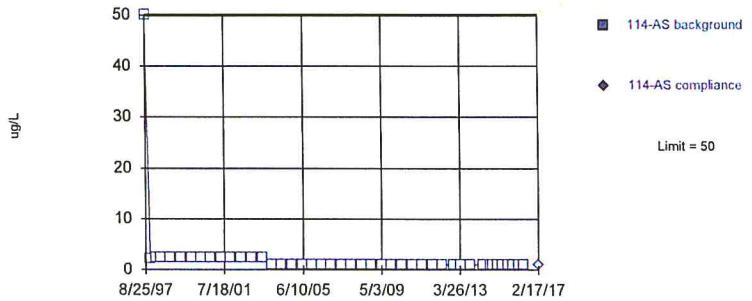
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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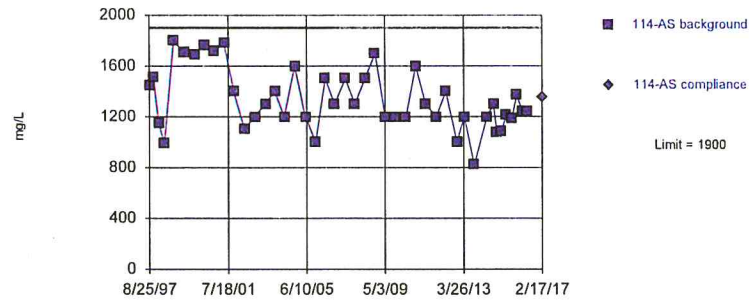
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.182, Std. Dev.=0.1805, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.924. Kappa = 2.06 (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 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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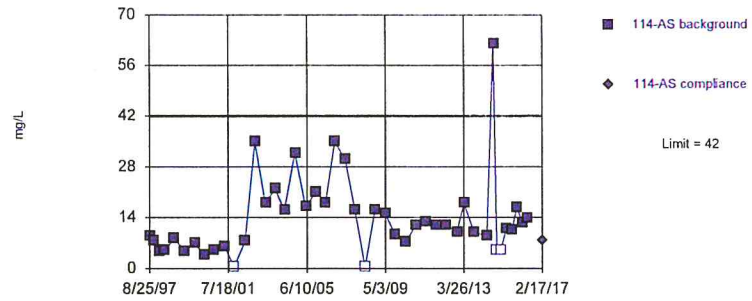
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.255, Std. Dev.=0.5969, n=44, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9667, critical = 0.924. Kappa = 2.06 (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.

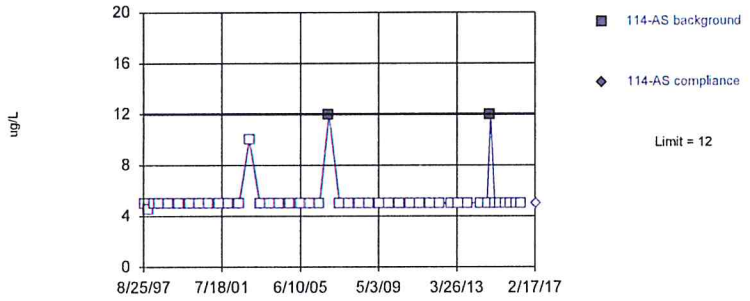
Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 6:59 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Hollow symbols indicate

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 3/14/2017 6:59 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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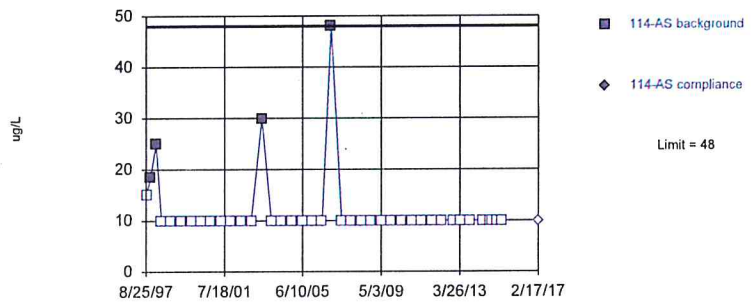
Hollow symbols indicate censored values.

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: Zinc Total Analysis Run 3/14/2017 7:00 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:27 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Ammonia as N (mg/L)	114-AS	31	n/a	2/17/2017	6.6	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	2/17/2017	114	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	2/17/2017	66400	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	2/17/2017	1.6	No	19	0.7295	0.2274	5.263	None	x^(1/3)	0.0007744	Param Intra 1 of 2

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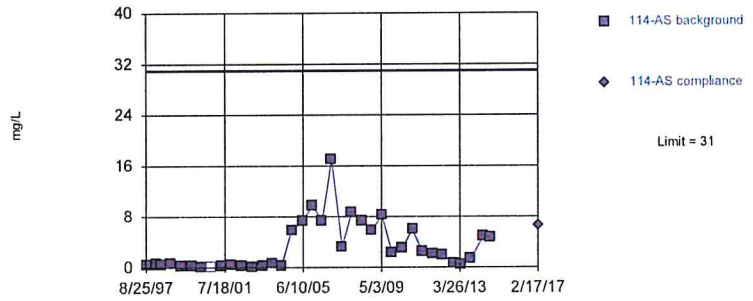
Hollow symbols indicate censored values.

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 3/14/2017 8:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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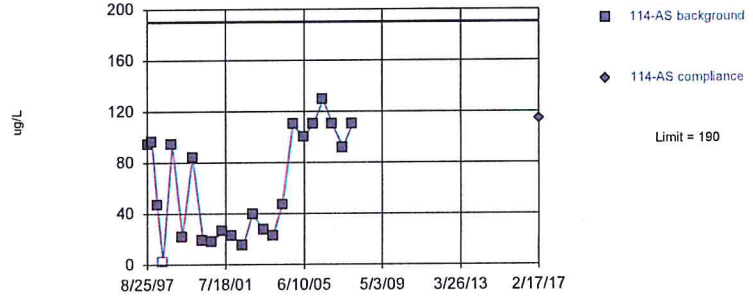
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



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

Constituent: Arsenic Total Analysis Run 3/14/2017 8:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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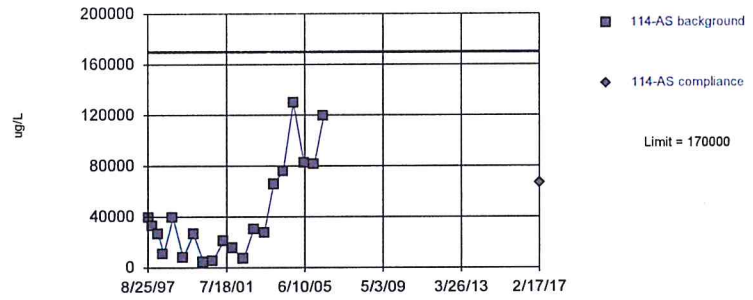
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube 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 3/14/2017 8:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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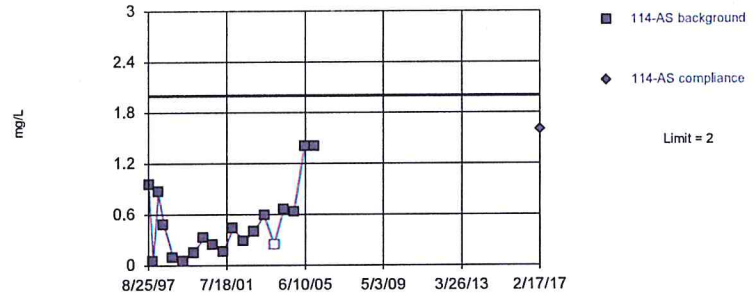
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



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

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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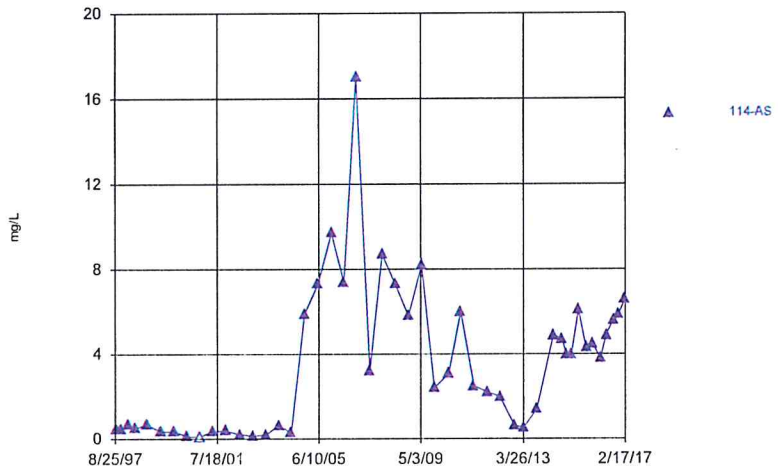
Time Series



Constituent: Ammonia as N Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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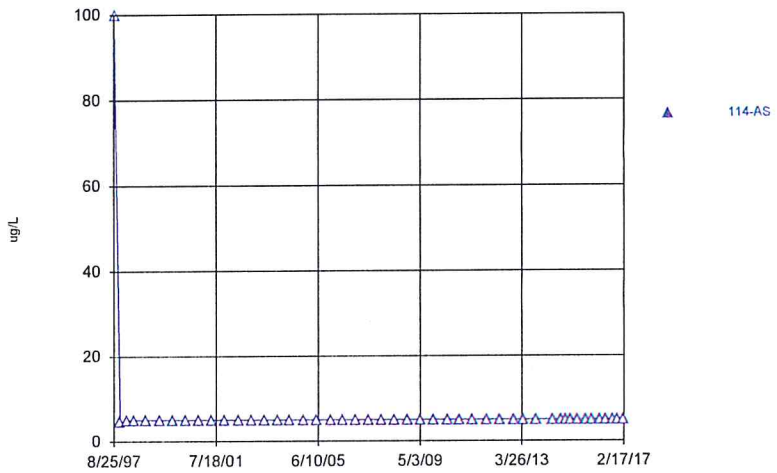
Hollow symbols indicate censored values.

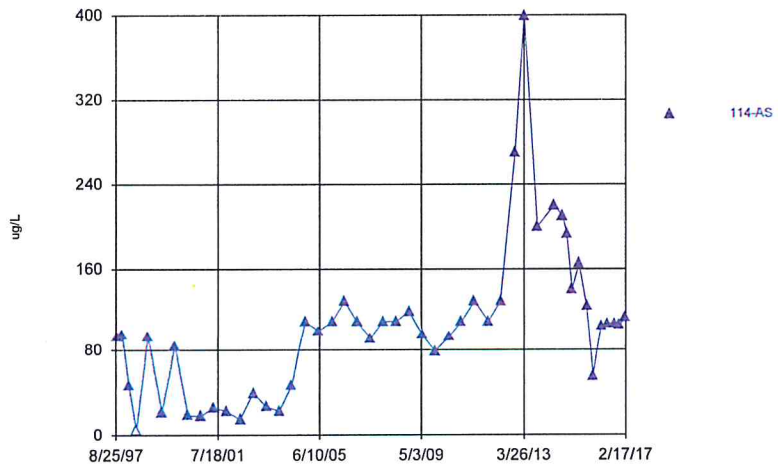
Time Series



Constituent: Antimony Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

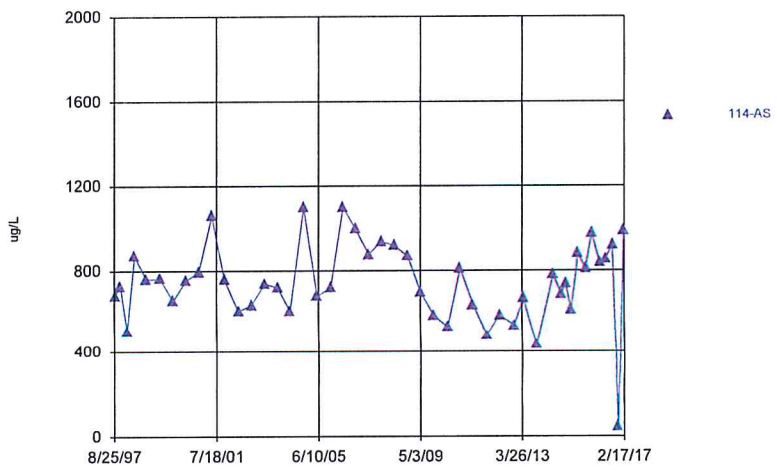
Time Series



Constituent: Arsenic Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

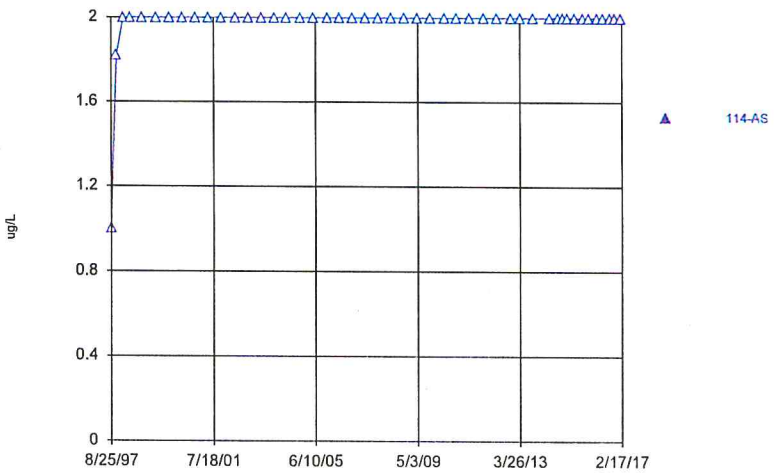
Time Series



Constituent: Barium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

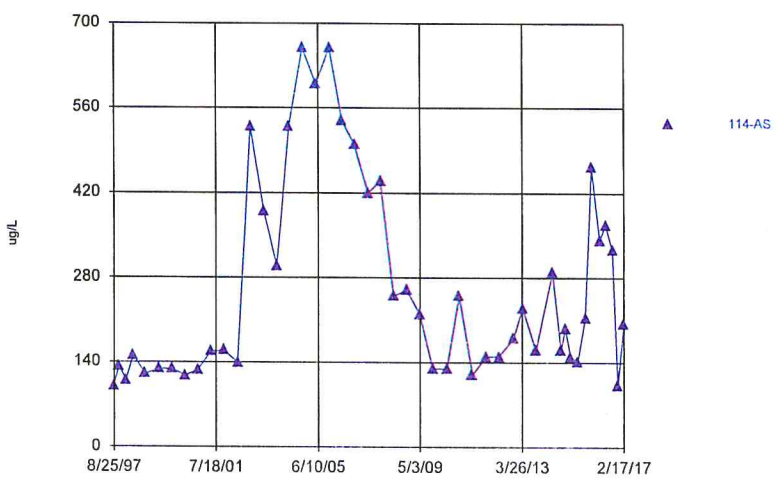
Time Series



Constituent: Beryllium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

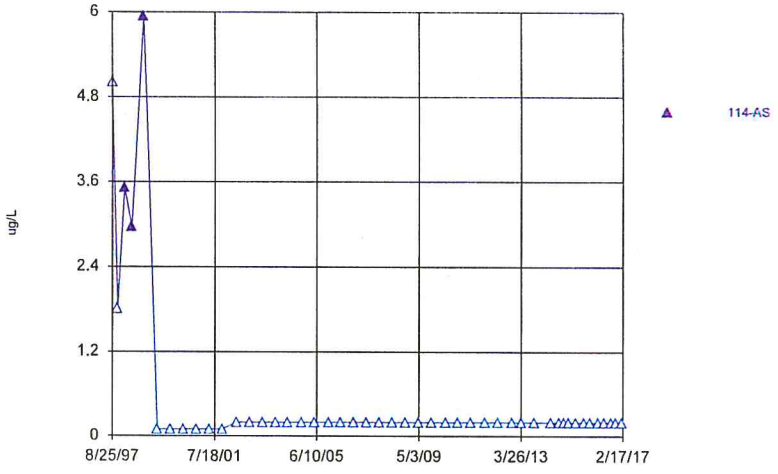
Time Series



Constituent: Boron Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

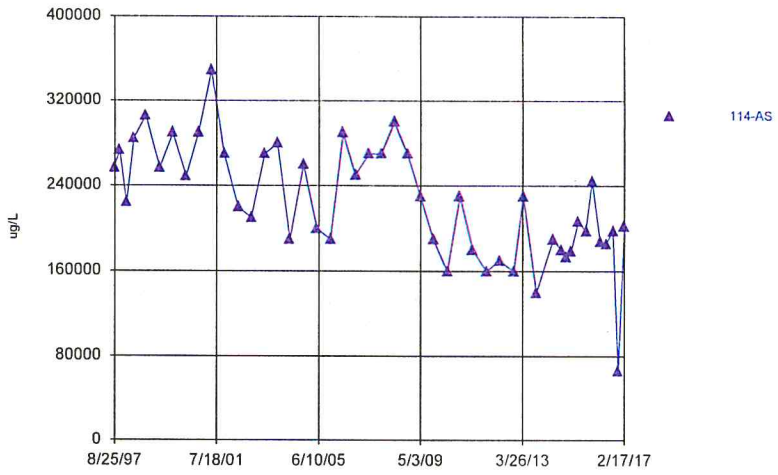
Time Series



Constituent: Cadmium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: Calcium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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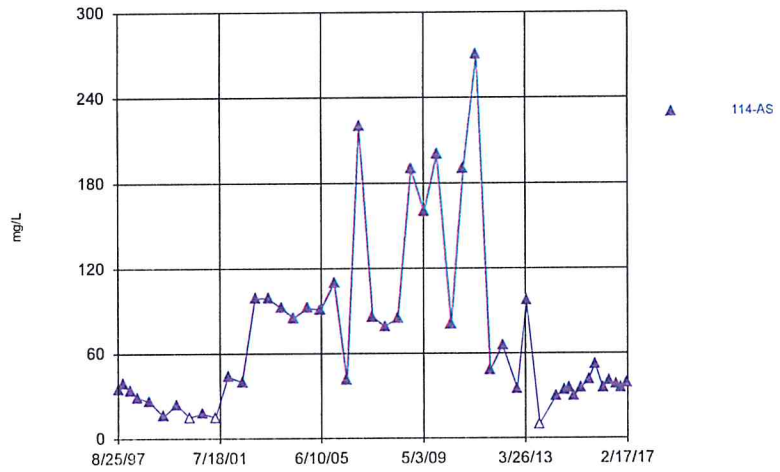
Hollow symbols indicate censored values.

Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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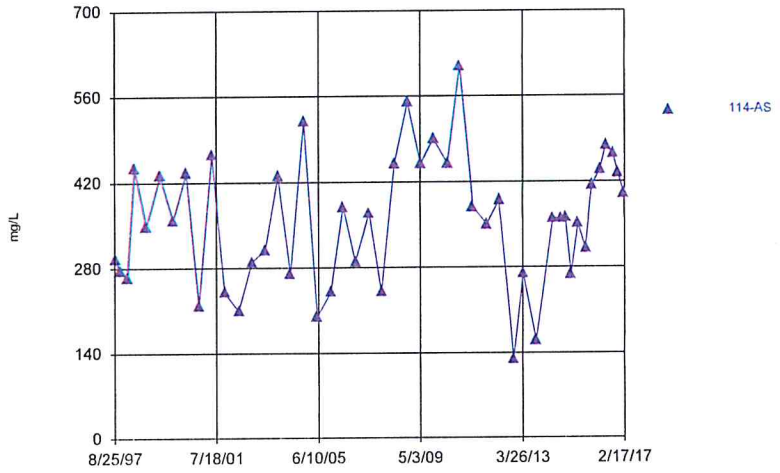
Time Series



Constituent: Chloride Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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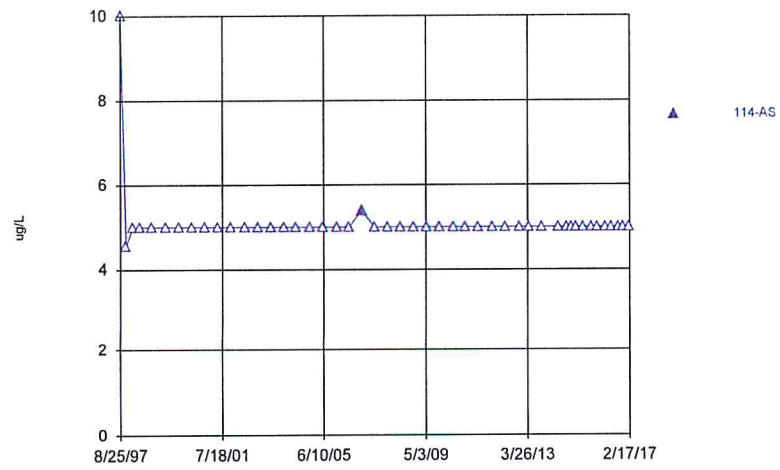
Hollow symbols indicate censored values.

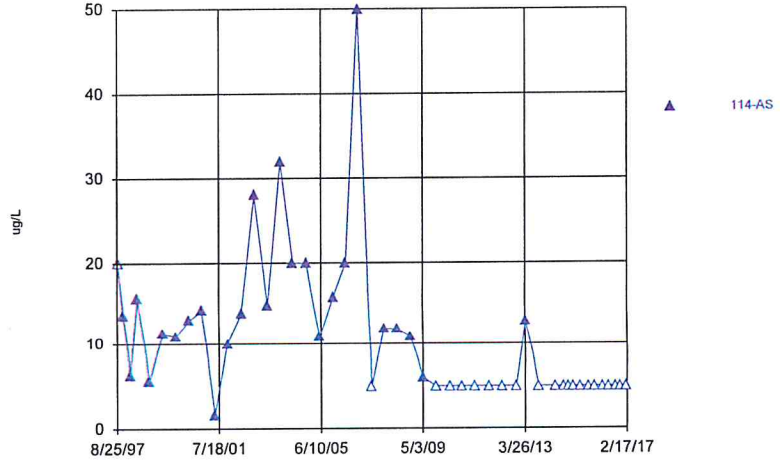
Time Series



Constituent: Chromium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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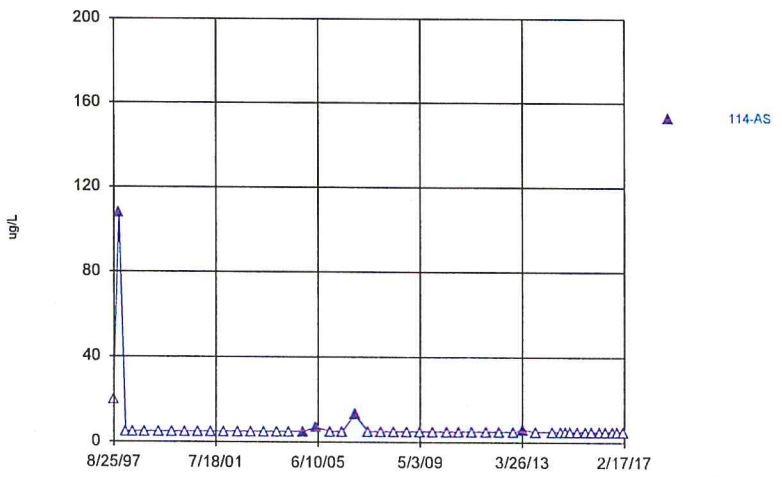
Hollow symbols indicate censored values.

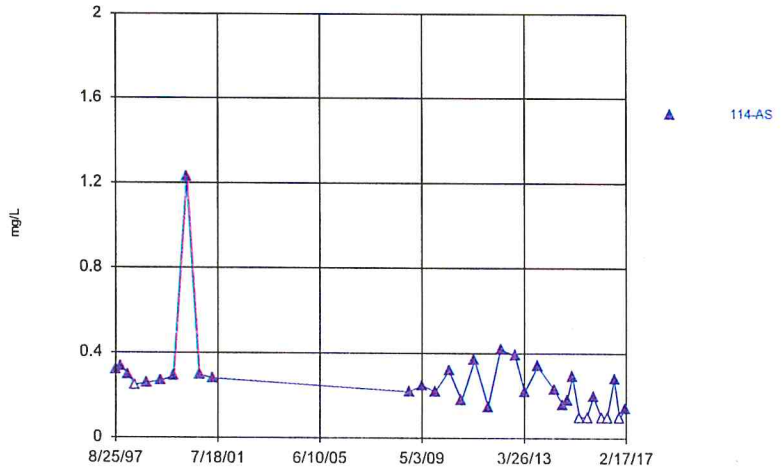
Time Series



Constituent: Copper Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

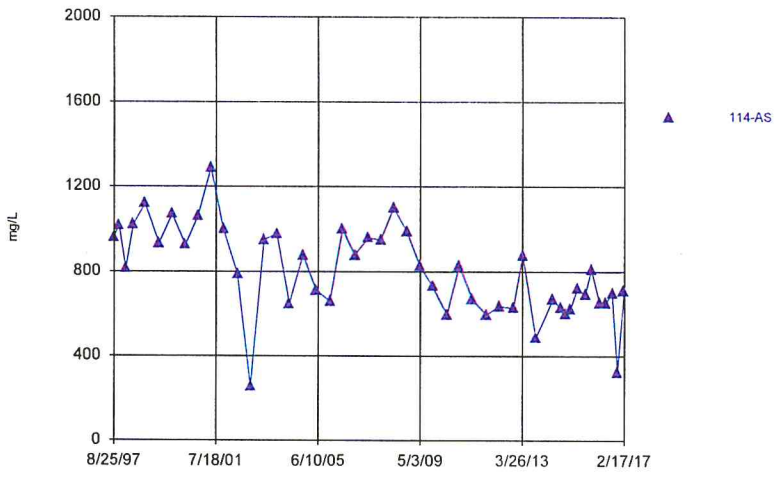
Time Series



Constituent: Fluoride Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

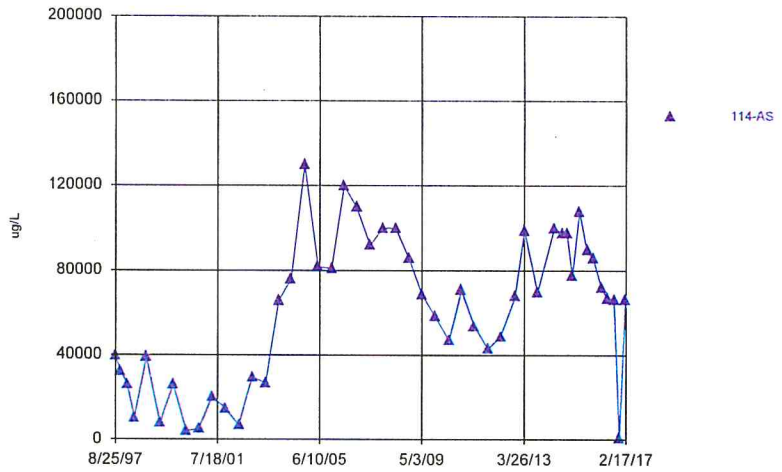
Time Series



Constituent: Hardness Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

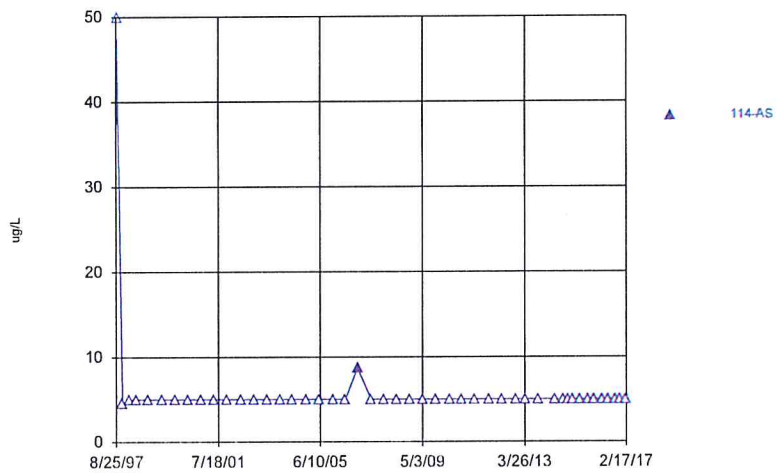
Time Series



Constituent: Iron Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

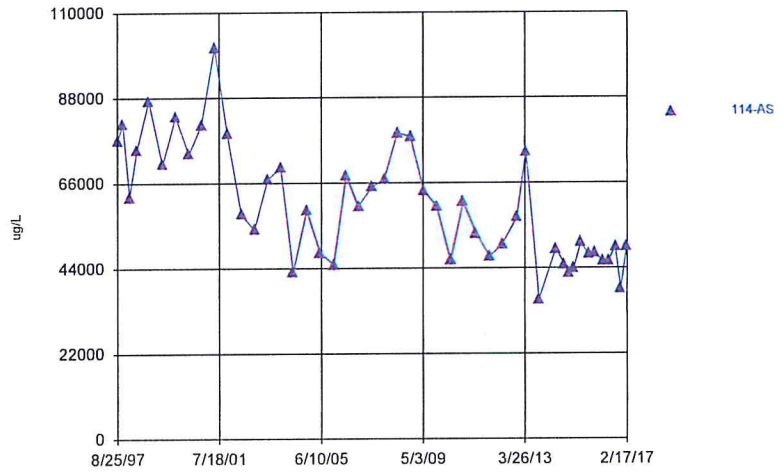
Time Series



Constituent: Lead Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting

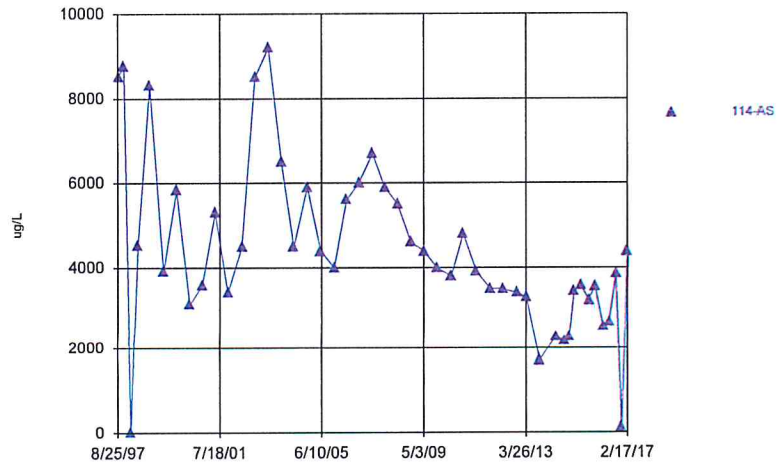
Time Series



Constituent: Magnesium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

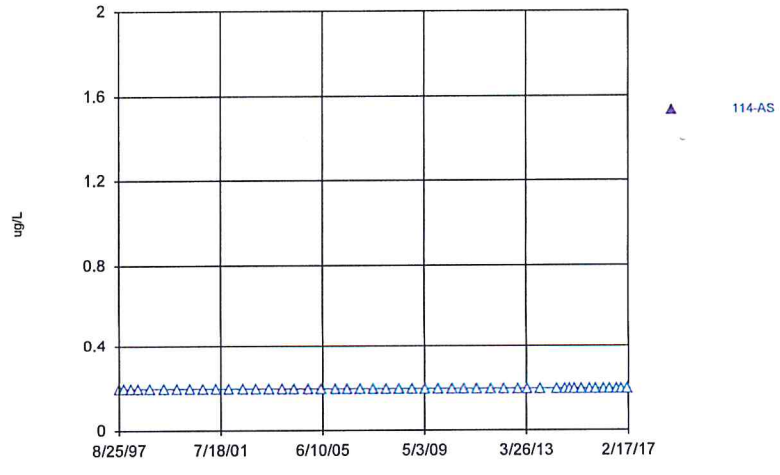
Time Series



Constituent: Manganese Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

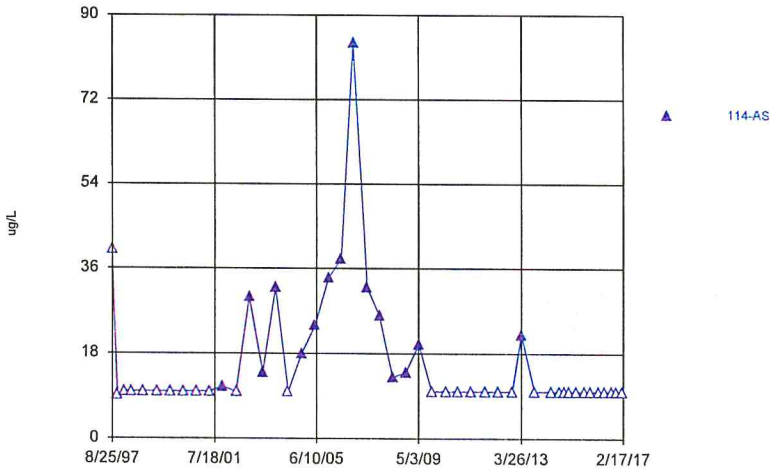
Time Series



Constituent: Mercury Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

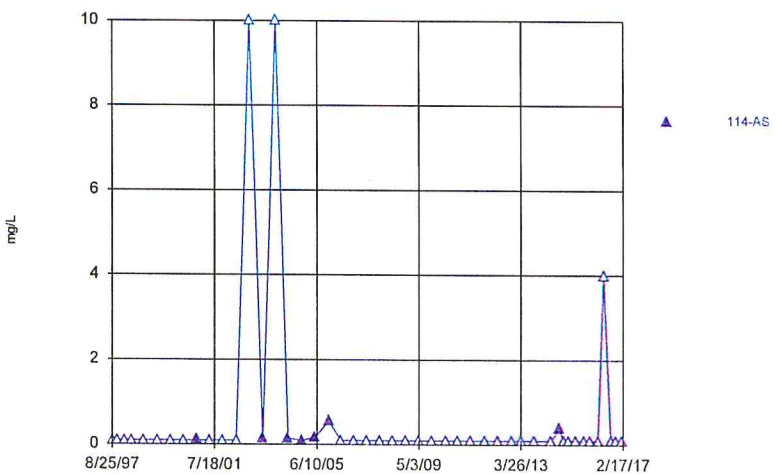
Time Series



Constituent: Nickel Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

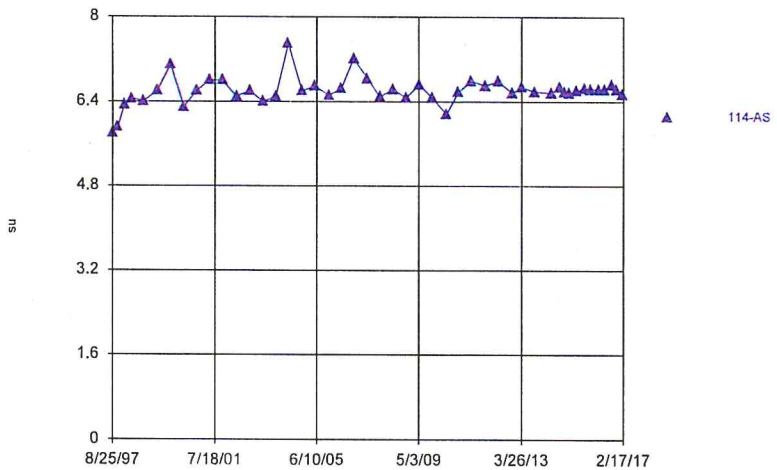
Time Series



Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

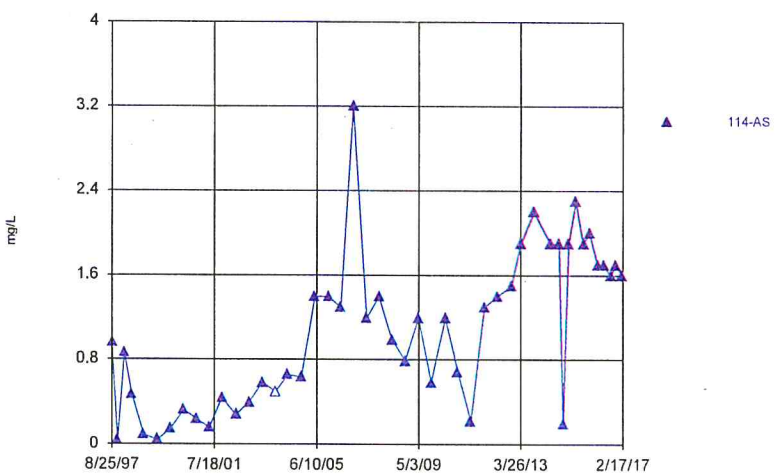
Time Series



Constituent: pH [Field] Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

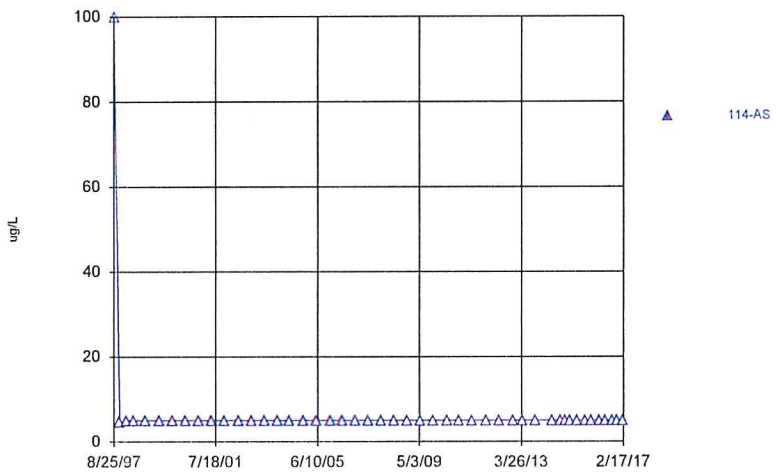
Time Series



Constituent: Phosphorus Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

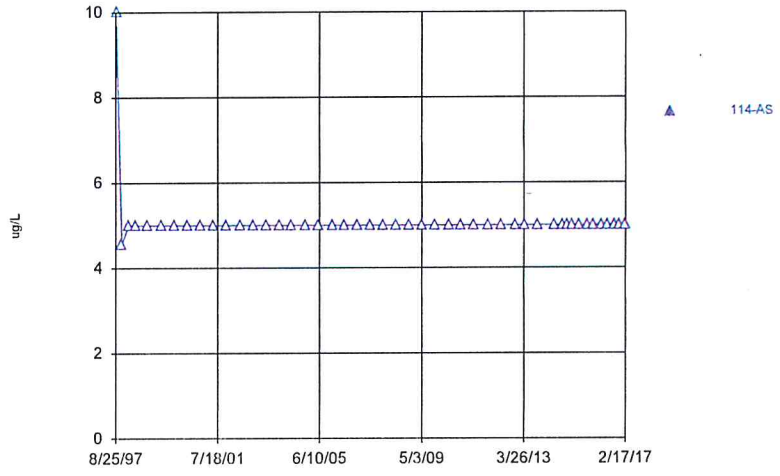
Time Series



Constituent: Selenium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

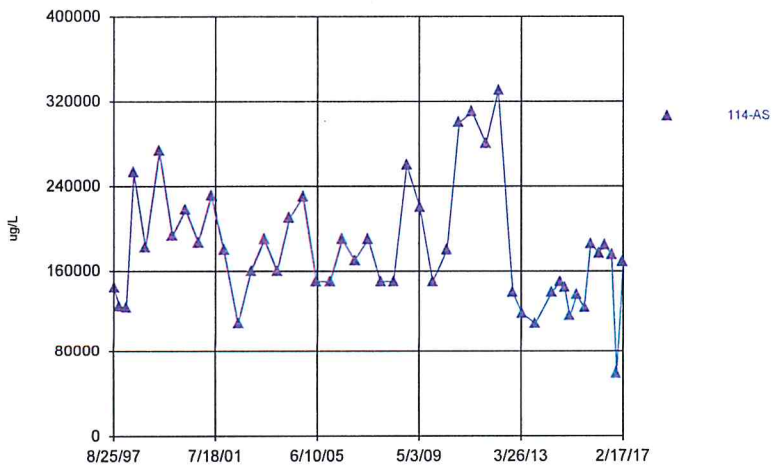
Time Series



Constituent: Silver Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

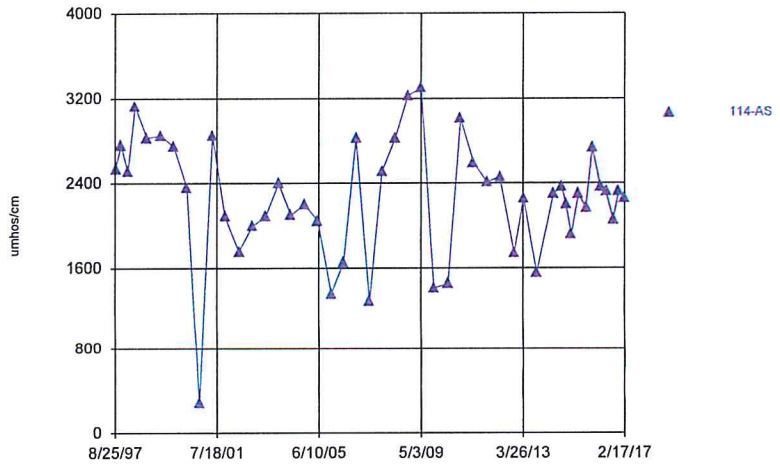
Time Series



Constituent: Sodium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

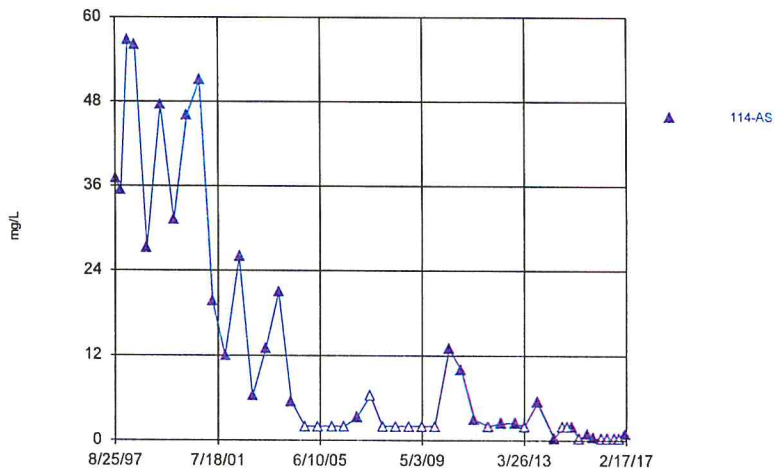
Time Series



Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

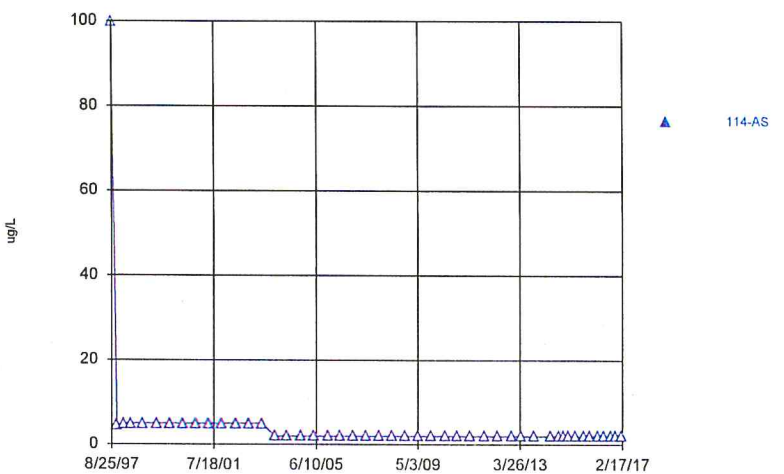
Time Series



Constituent: Sulfate Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

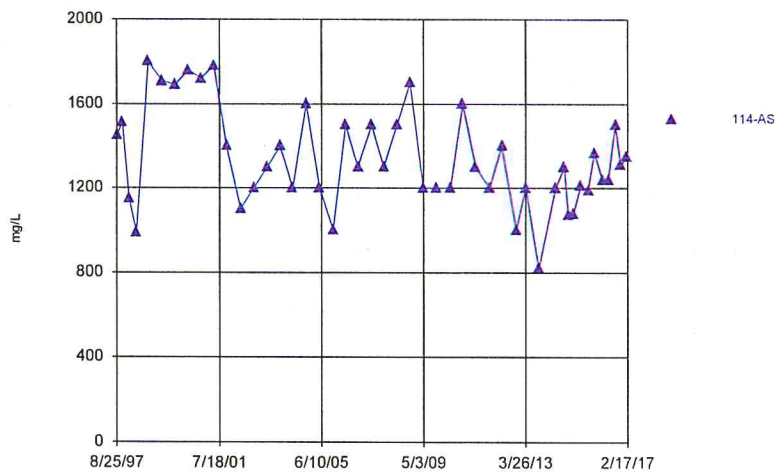
Time Series



Constituent: Thallium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

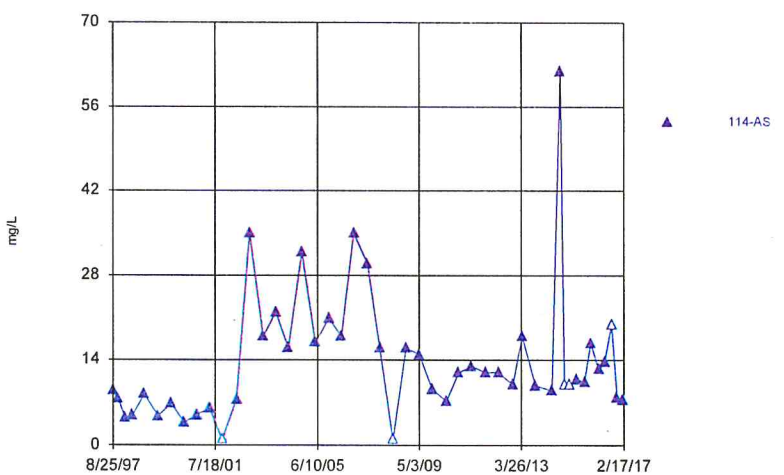
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/201[illegible] AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

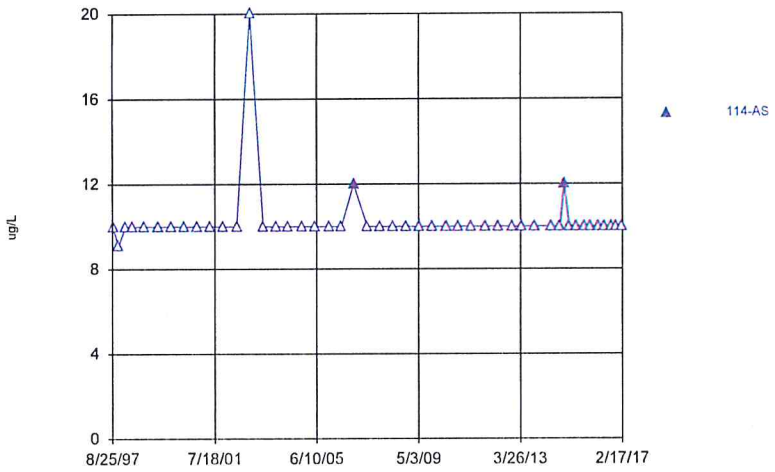
Time Series



Constituent: Total Organic [illegible] Analysis Run 3/14/2017 10:22 AM
Bridgeton [illegible] Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

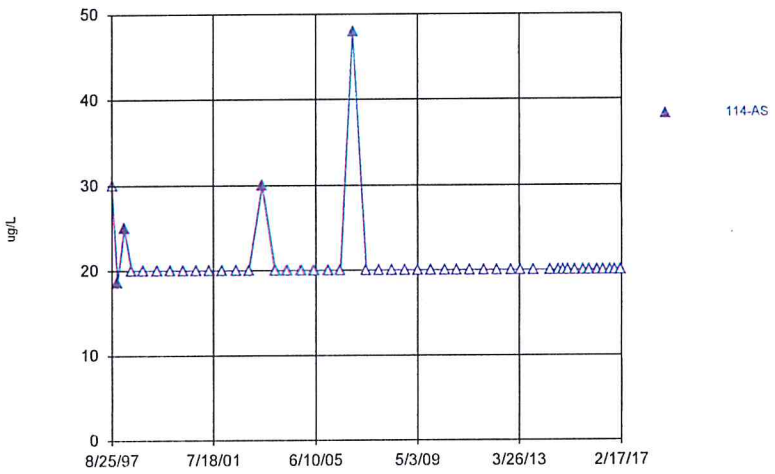
Time Series



Constituent: Vanadium Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

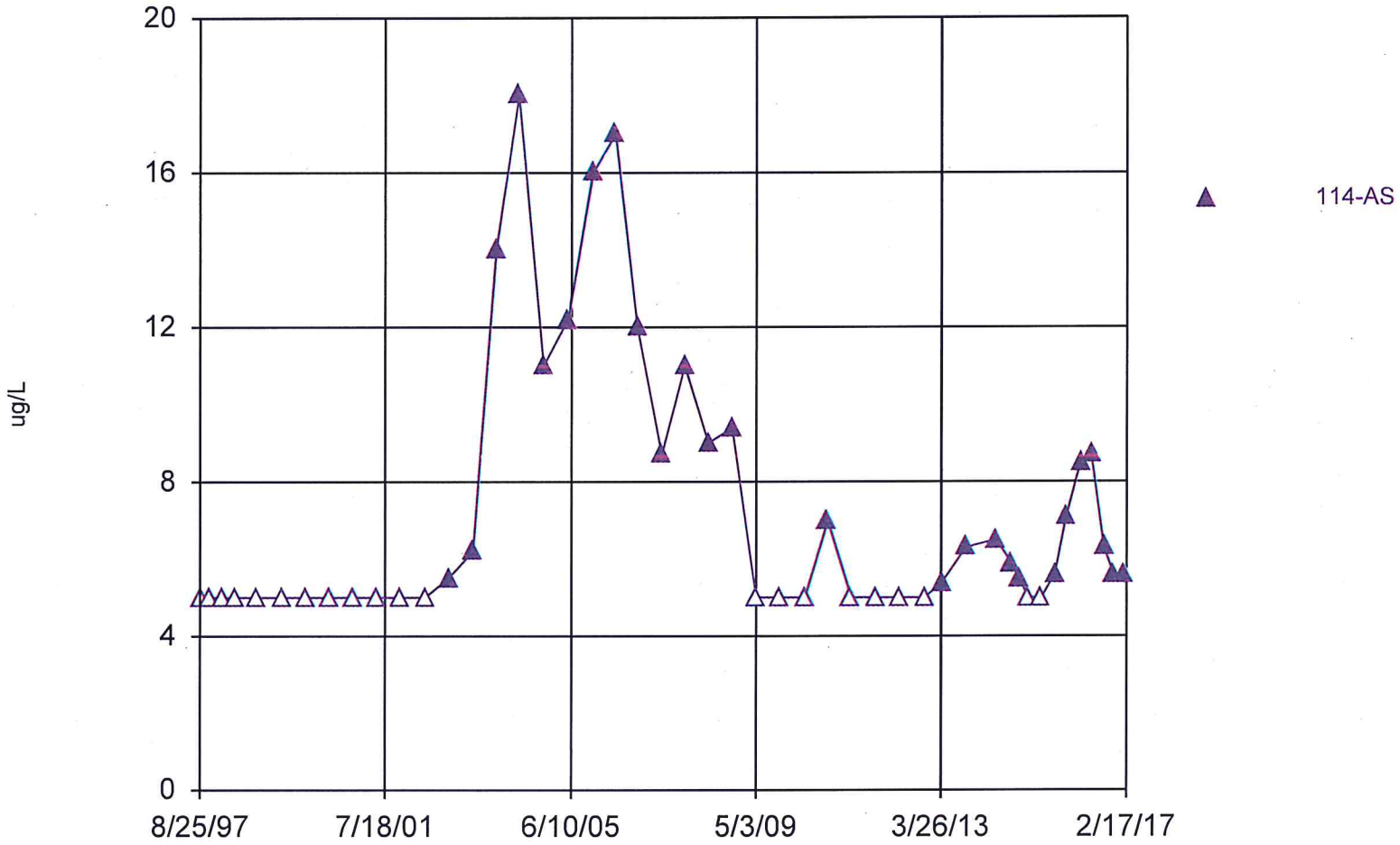
Time Series



Constituent: Zinc Total Analysis Run 3/14/2017 10:22 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v 9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

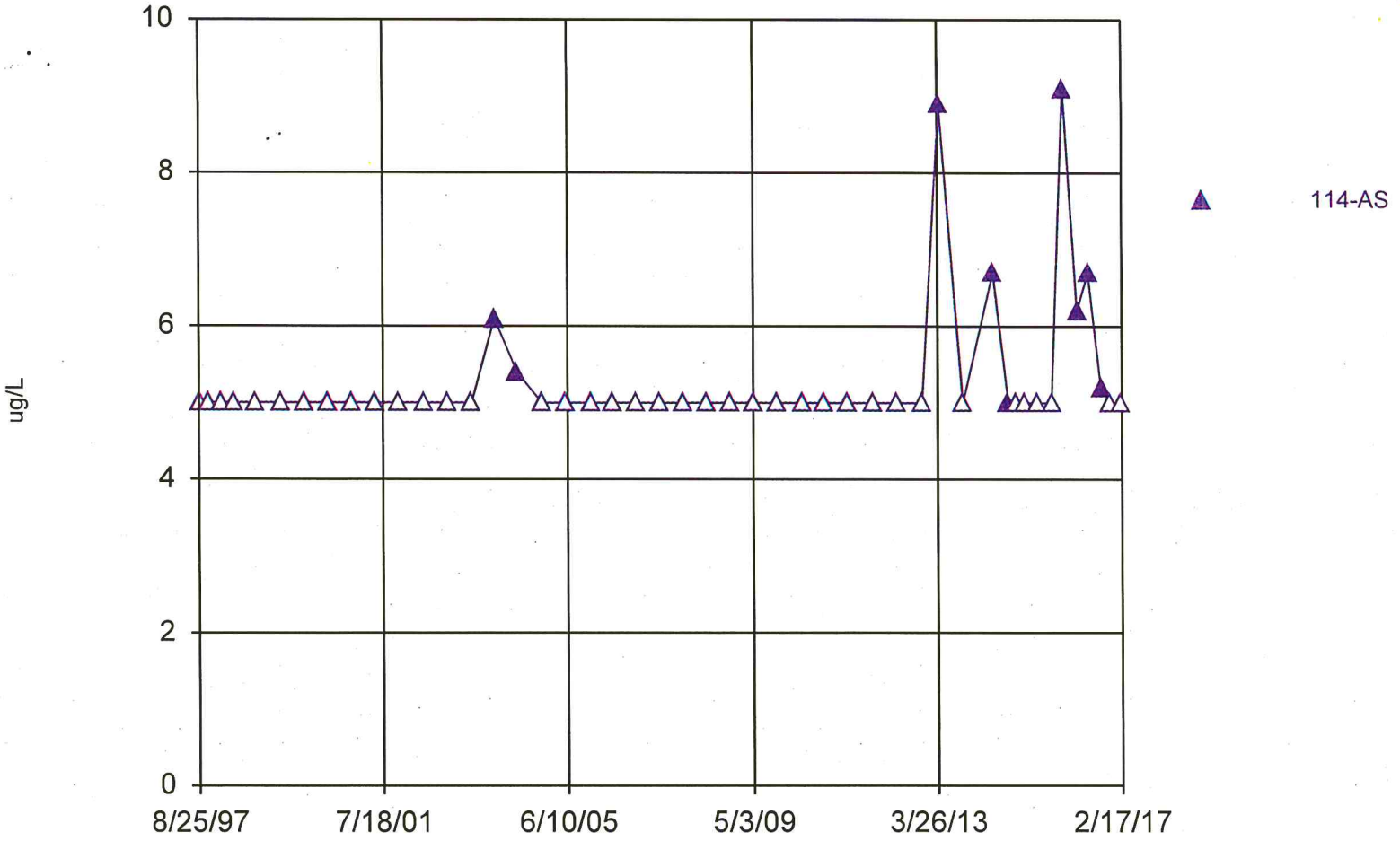


Constituent: 14-Dichlorobenzene Analysis Run 3/14/2017 3:26 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

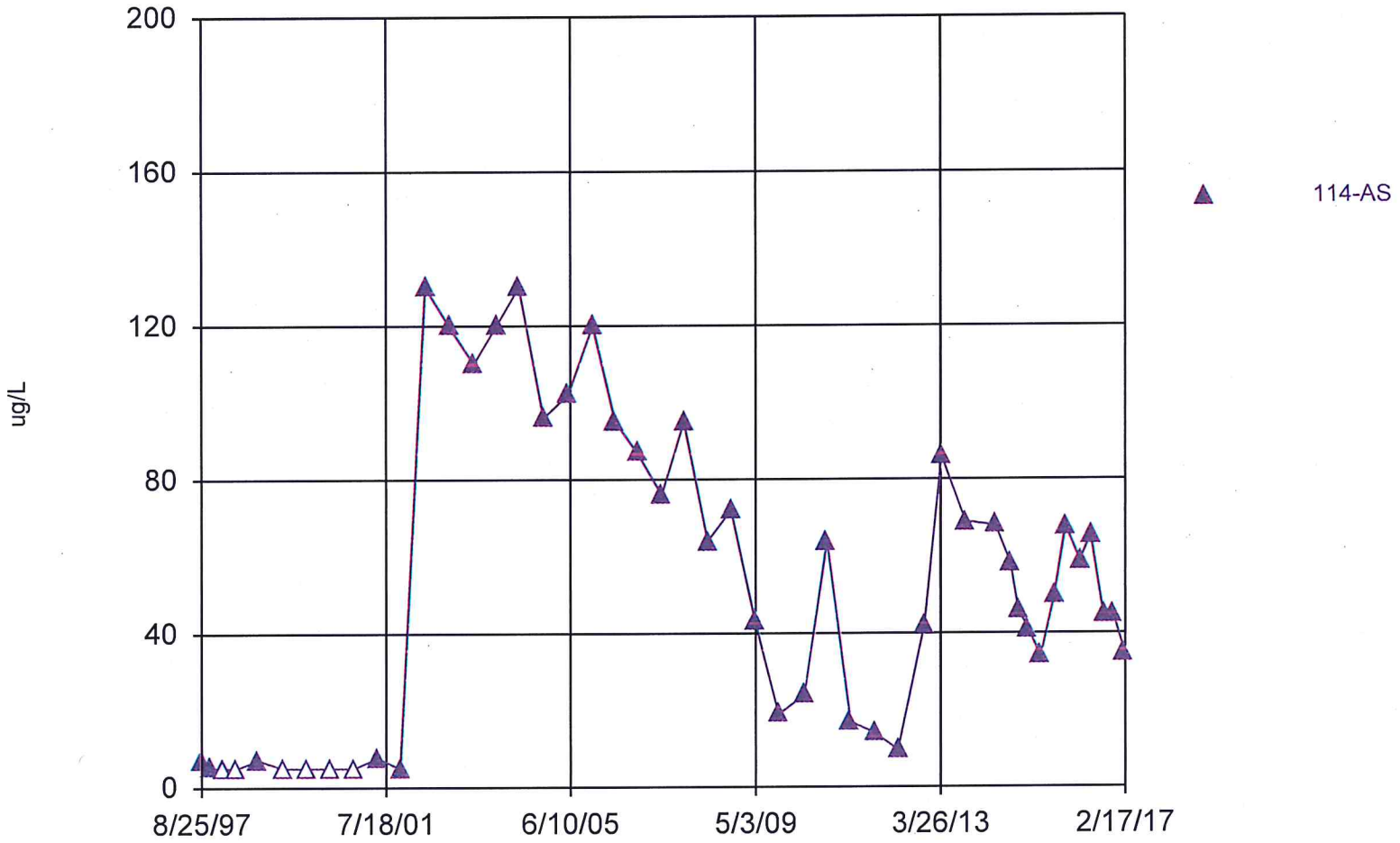


Constituent: Benzene Analysis Run 3/14/2017 3:26 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 3/14/2017 3:26 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	-106	-201	No	40	100	n/a	n/a	0.02	NP

Trend Test

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

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

Trend Test

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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

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

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

Trend Test

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

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

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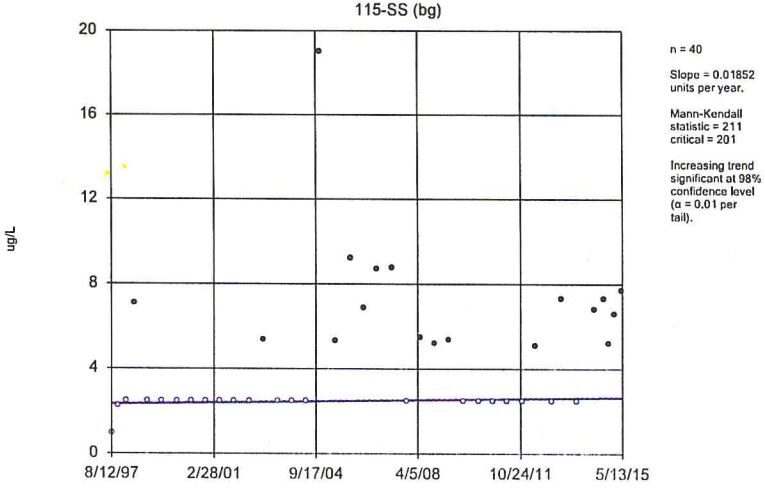
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.01852 units per year.

Mann-Kendall statistic = 211 critical = 201

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

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

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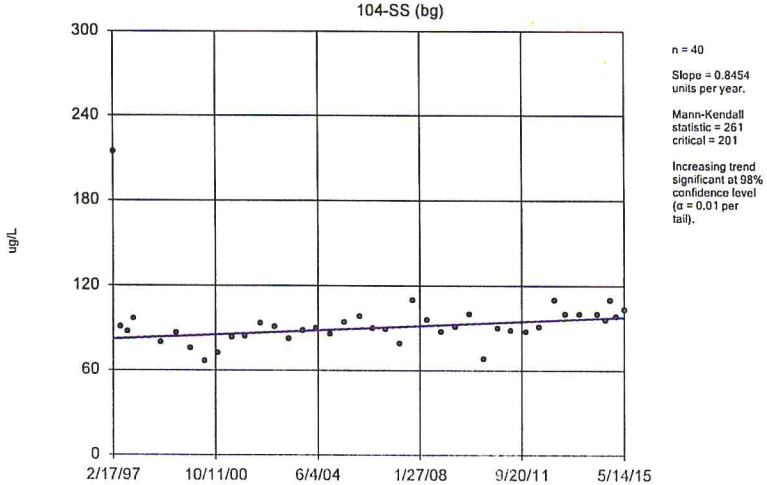
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0.8454 units per year.

Mann-Kendall statistic = 261 critical = 201

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

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

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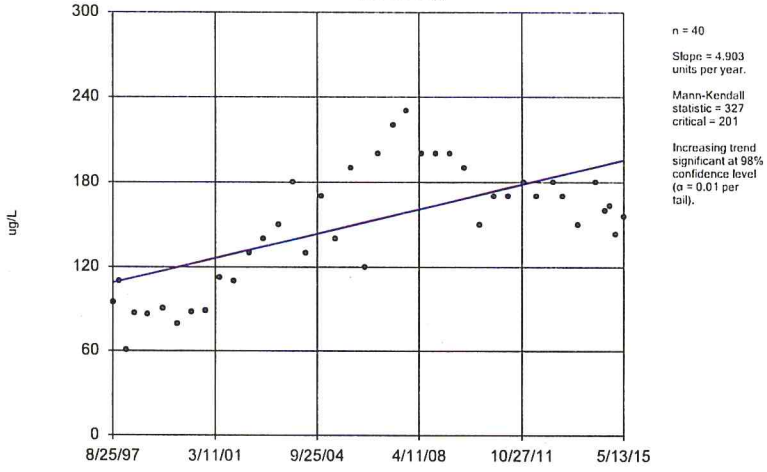
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 4.903 units per year.

Mann-Kendall statistic = 327 critical = 201

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

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

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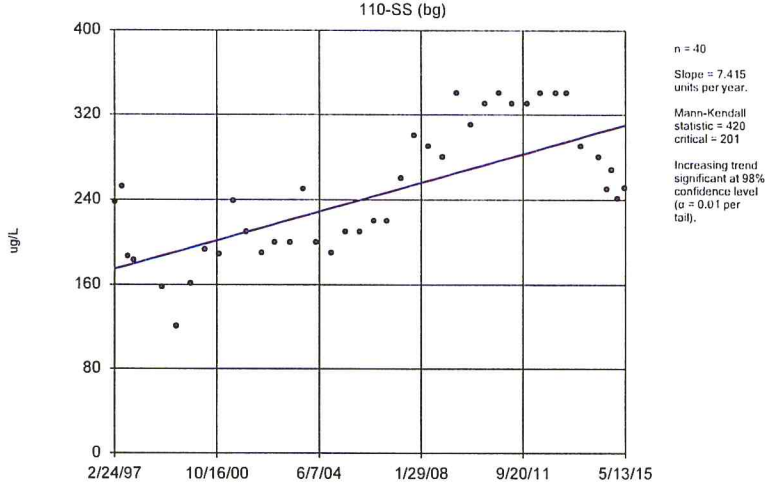
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 7.415 units per year.

Mann-Kendall statistic = 420 critical = 201

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

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

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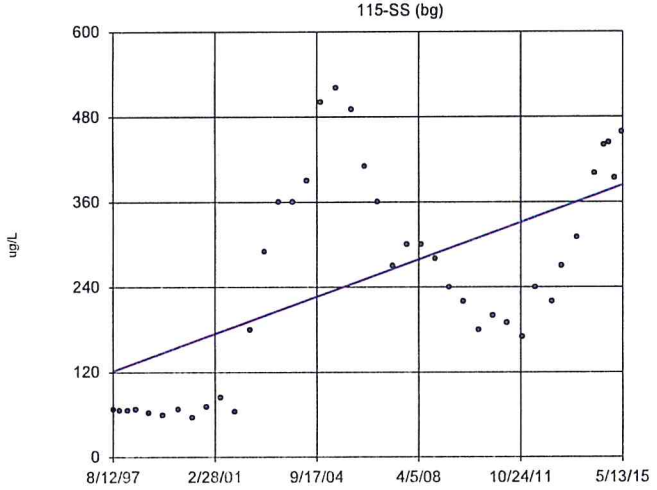
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 14.74 units per year.

Mann-Kendall statistic = 308 critical = 201

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

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

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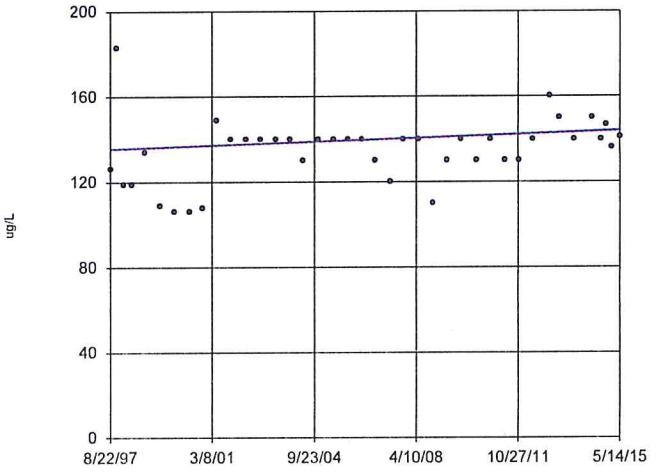
Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0.4866 units per year.

Mann-Kendall statistic = 202 critical = 201

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

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

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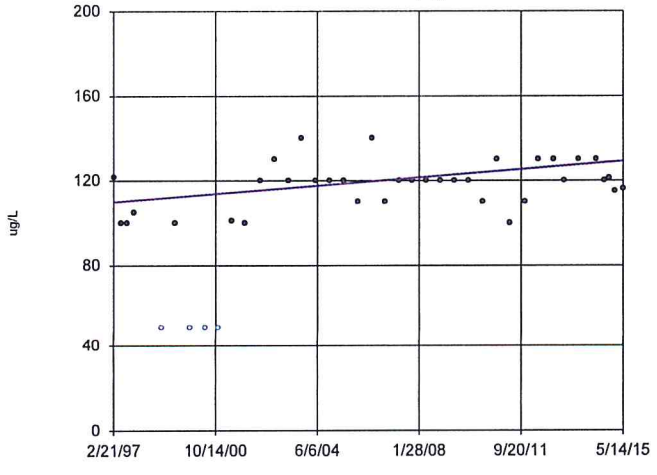
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 1.059 units per year.

Mann-Kendall statistic = 234 critical = 201

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

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

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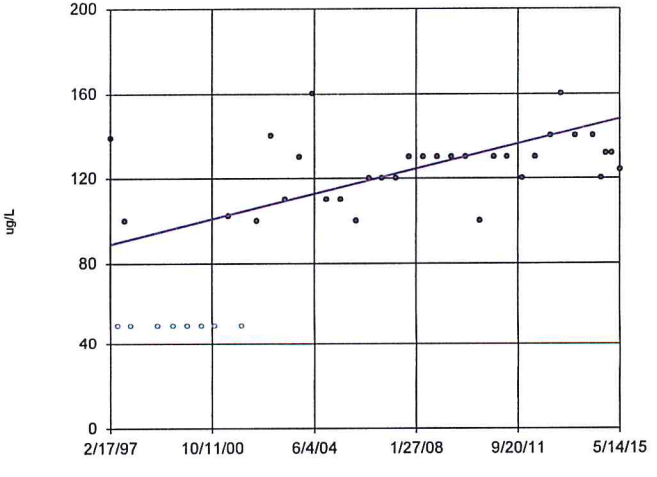
Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 3.228 units per year.

Mann-Kendall statistic = 377 critical = 201

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

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

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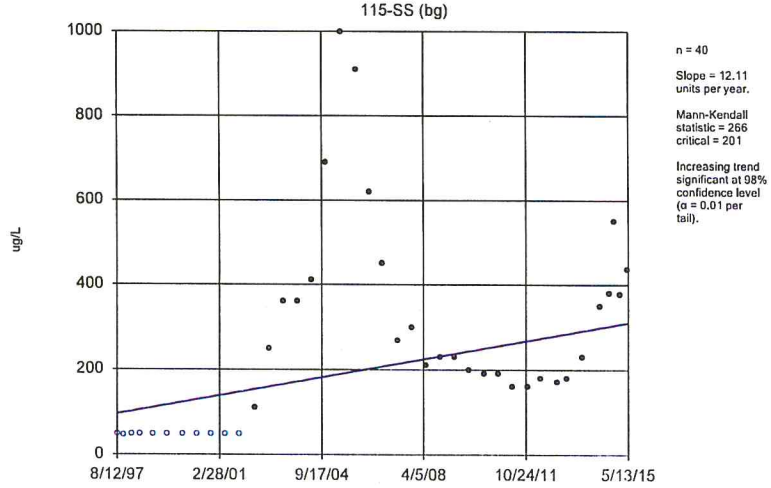
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 12.11 units per year.

Mann-Kendall statistic = 266 critical = 201

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

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

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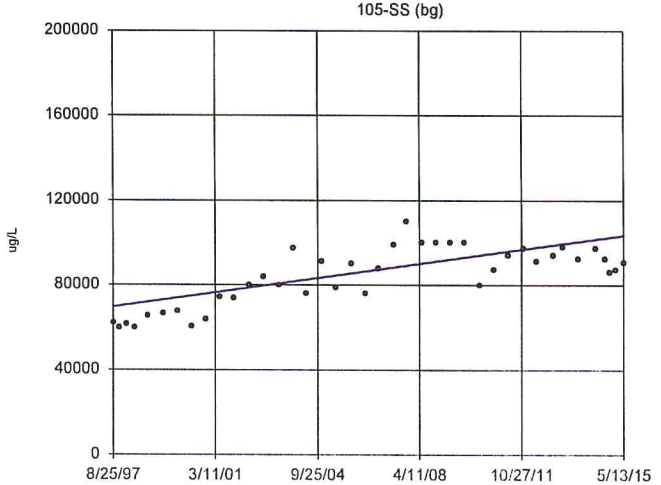
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 1908 units per year.

Mann-Kendall statistic = 403 critical = 201

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

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

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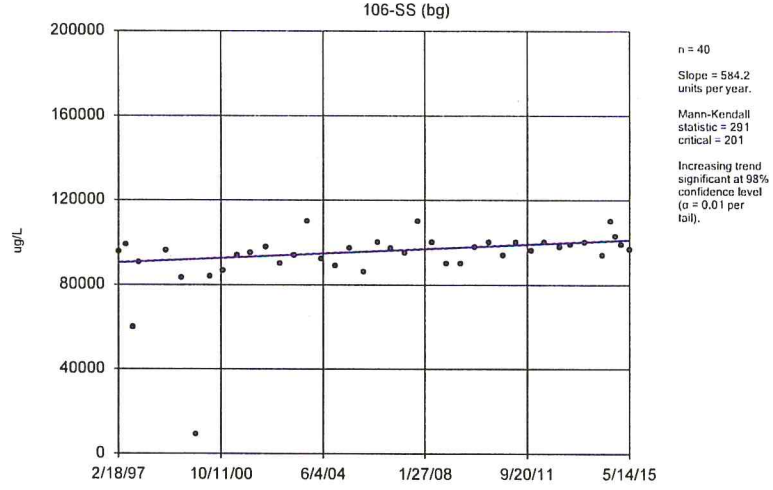
Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = 584.2 units per year.

Mann-Kendall statistic = 291 critical = 201

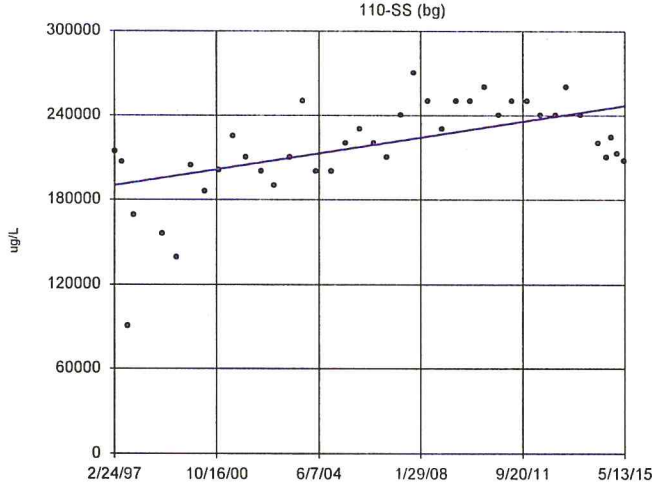
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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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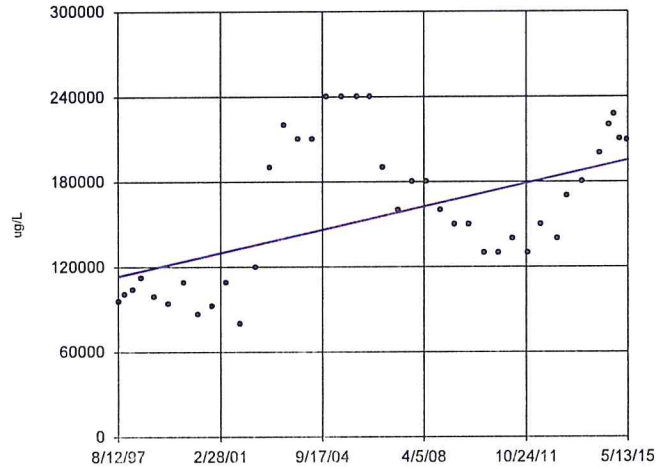
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 4611 units per year.

Mann-Kendall statistic = 259 critical = 201

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

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

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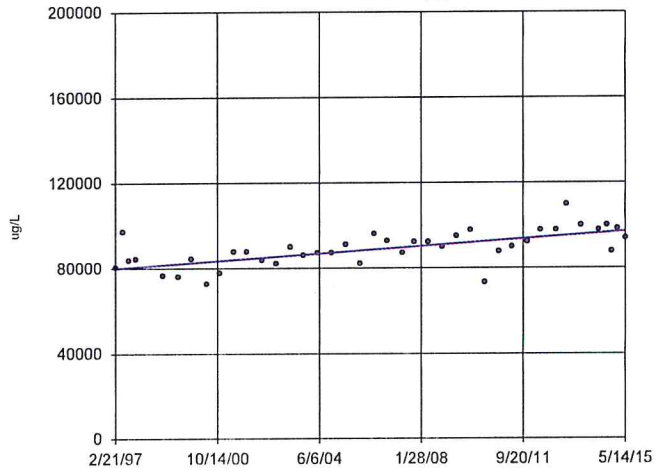
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 941.3 units per year.

Mann-Kendall statistic = 409 critical = 201

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

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

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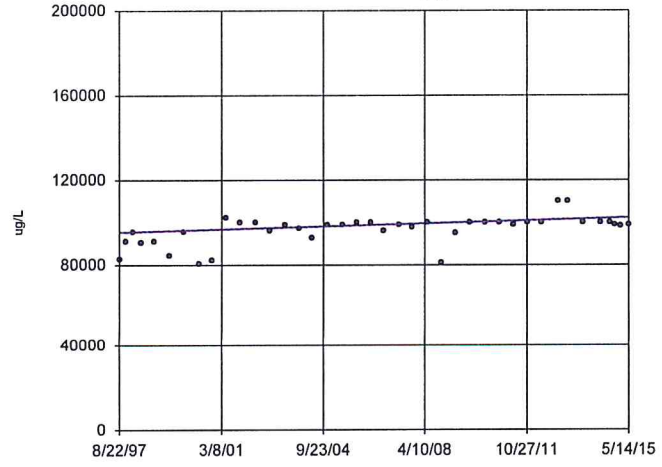
Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 391 units per year.

Mann-Kendall statistic = 295 critical = 201

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

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

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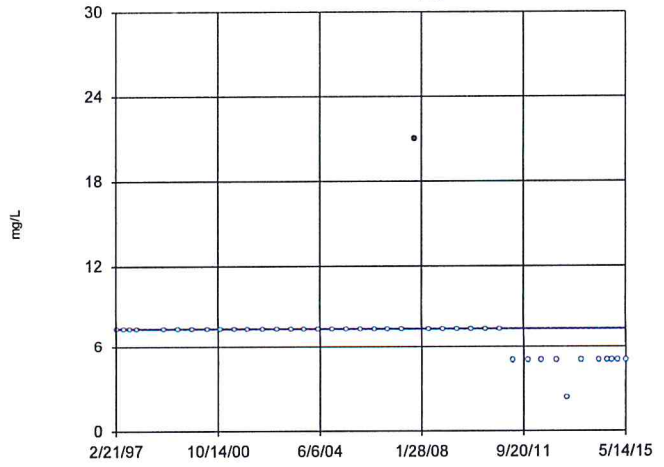
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -301 critical = -201

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

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

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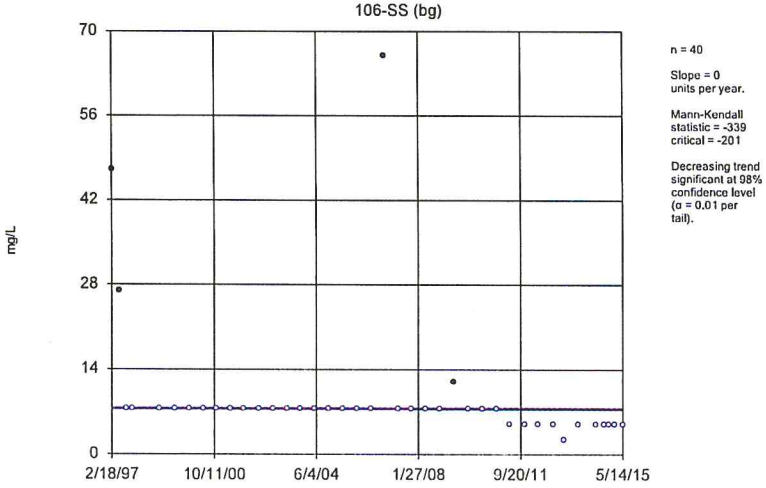
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS (bg)

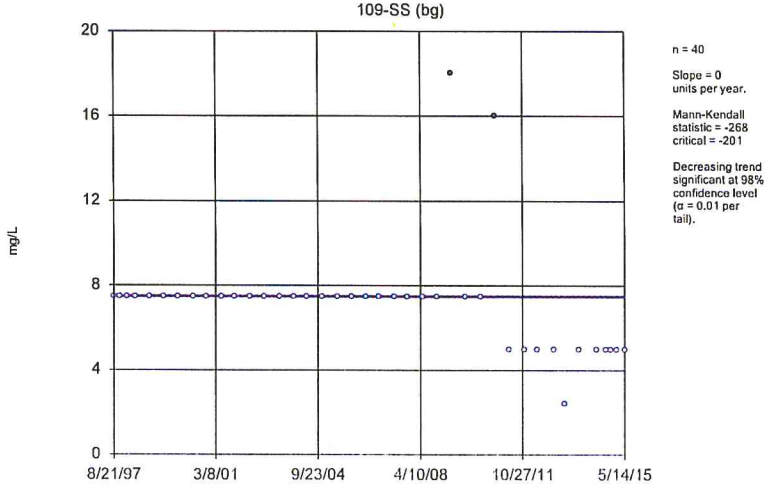


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

109-SS (bg)

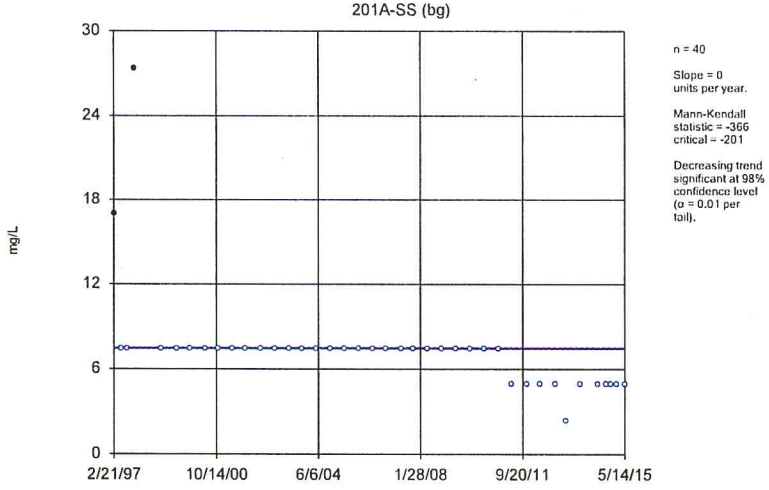


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

201A-SS (bg)

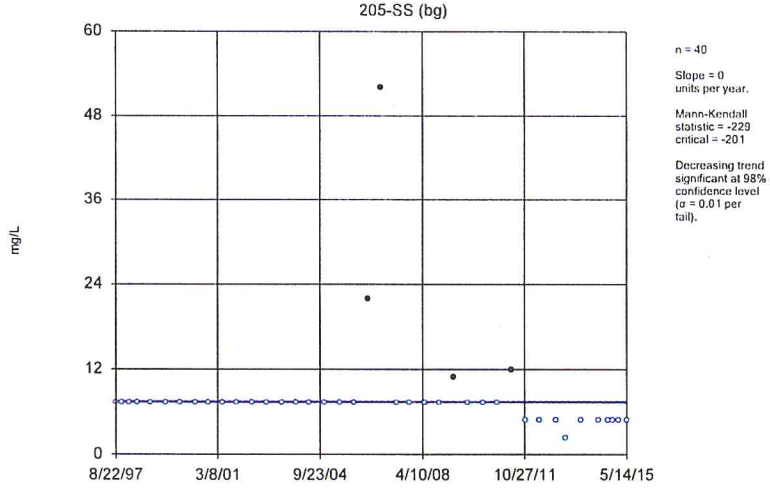


Constituent: Chemical Oxygen Demand [Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: BRIDGETON

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

Sen's Slope Estimator

205-SS (bg)

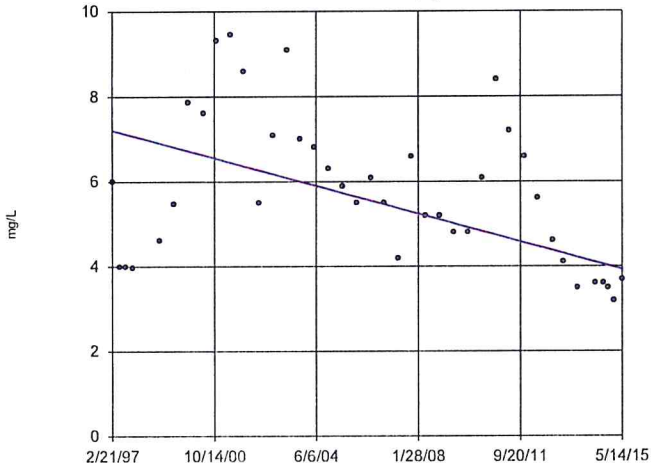


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

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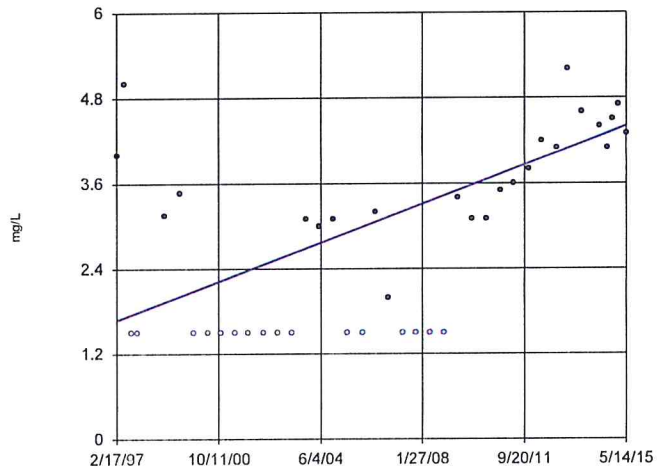
Hollow symbols indicate censored values.

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

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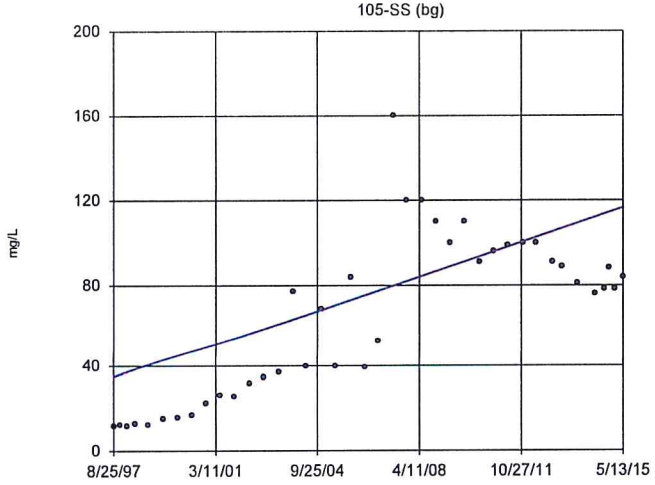
Sen's Slope Estimator

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

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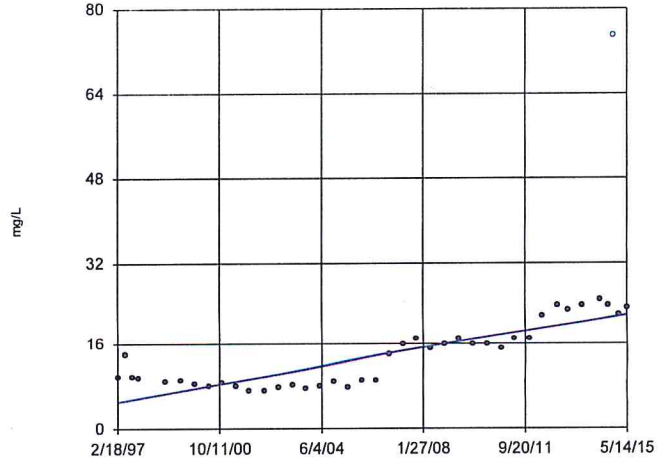
Hollow symbols indicate censored values.

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

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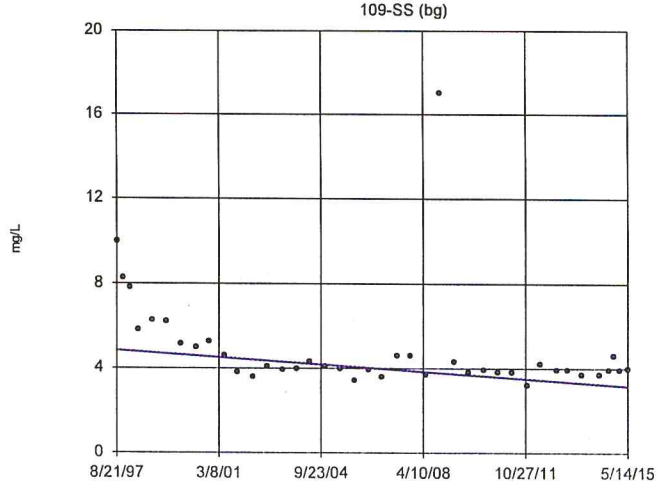
Sen's Slope Estimator

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

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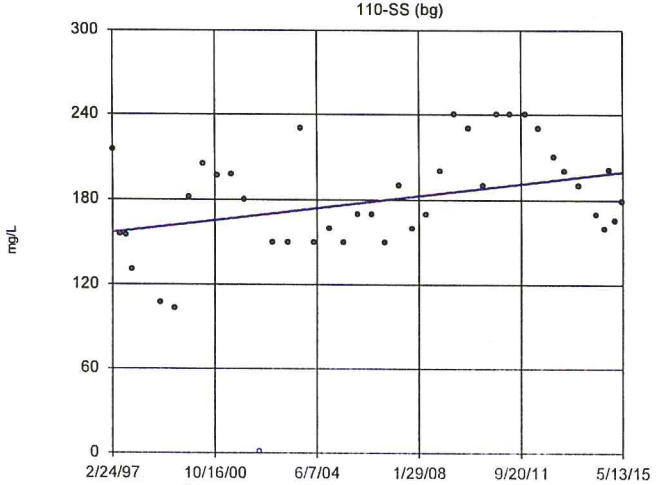
Hollow symbols indicate censored values.

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).

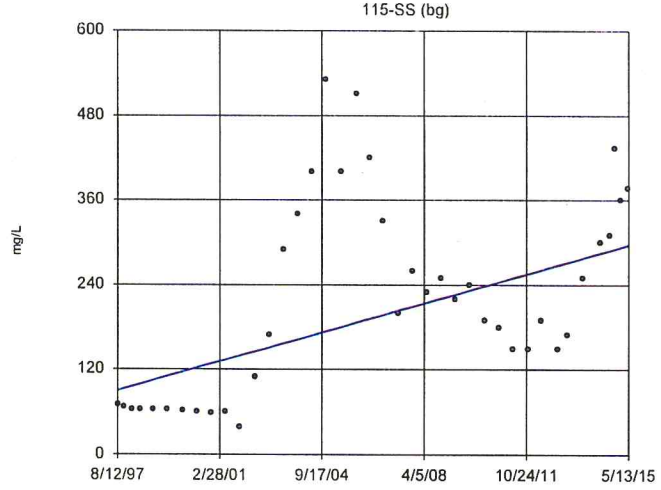
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM

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

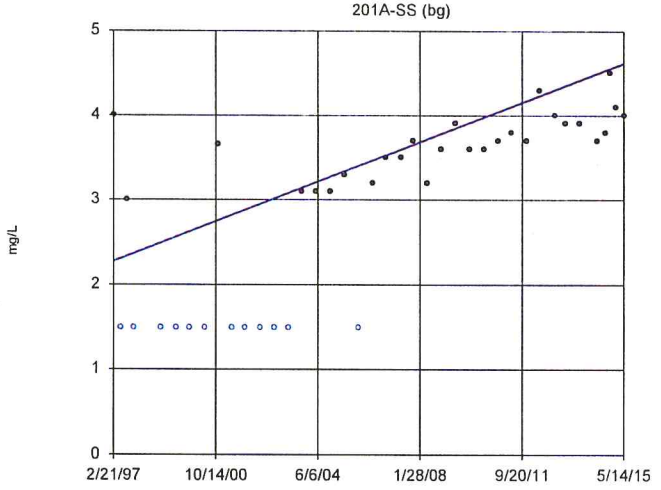
Bridgeton LF Client: RSI Data: BRIDGETON

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

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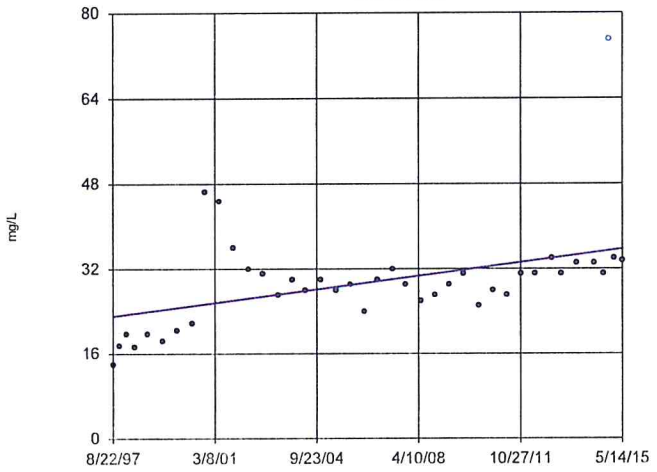
Hollow symbols indicate censored values.

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

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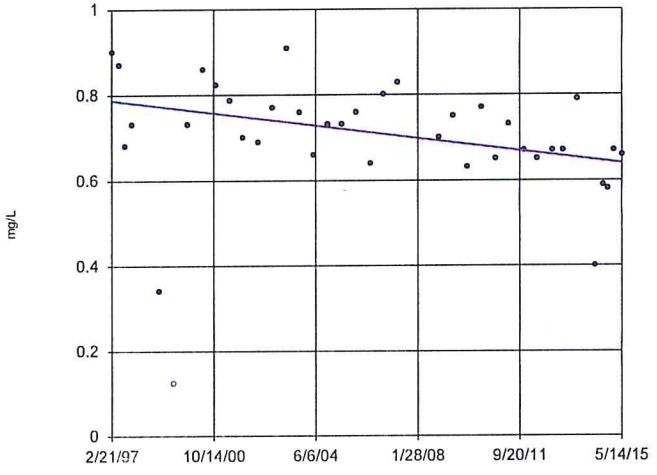
Hollow symbols indicate censored values.

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

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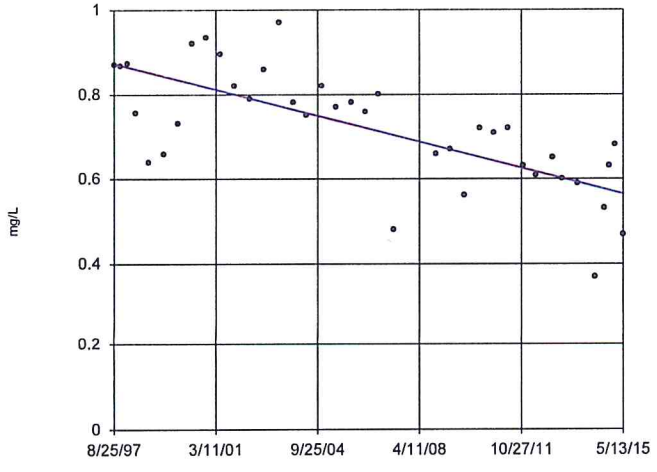
Sen's Slope Estimator

105-SS (bg)



n = 38

Slope = -0.01749 units per year.

Mann-Kendall statistic = -384
critical = -186

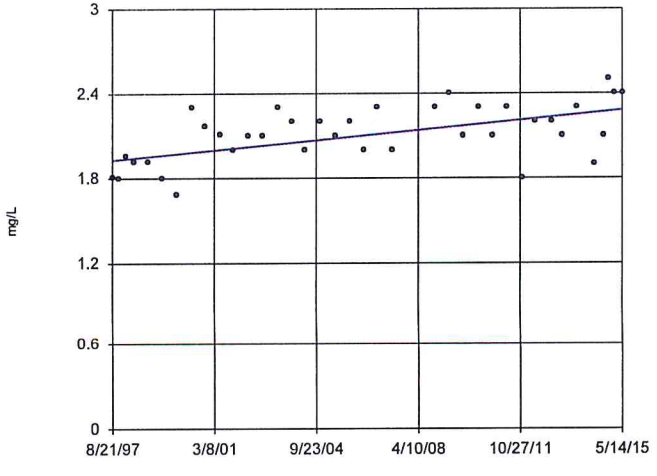
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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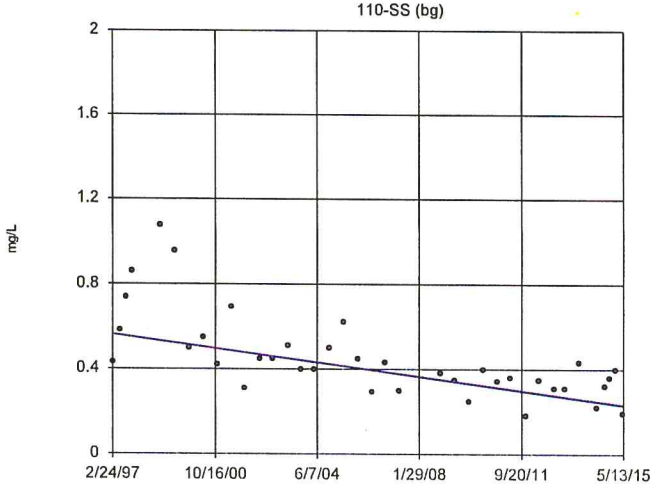
Sen's Slope Estimator

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

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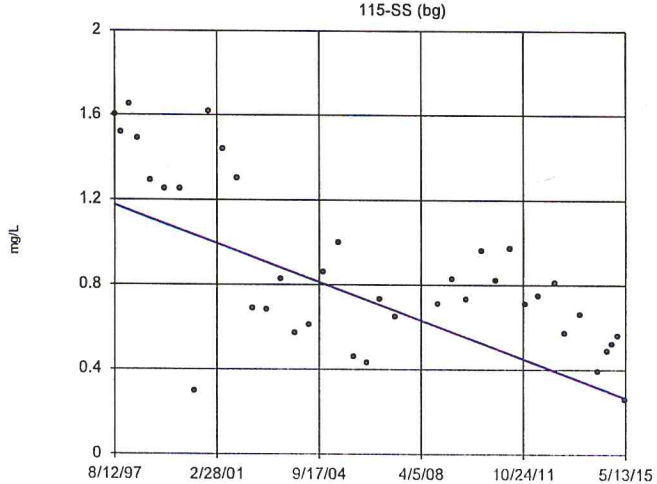
Sen's Slope Estimator

115-SS (bg)



n = 38

Slope = -0.05116 units per year.

Mann-Kendall statistic = -340
critical = -186

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

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

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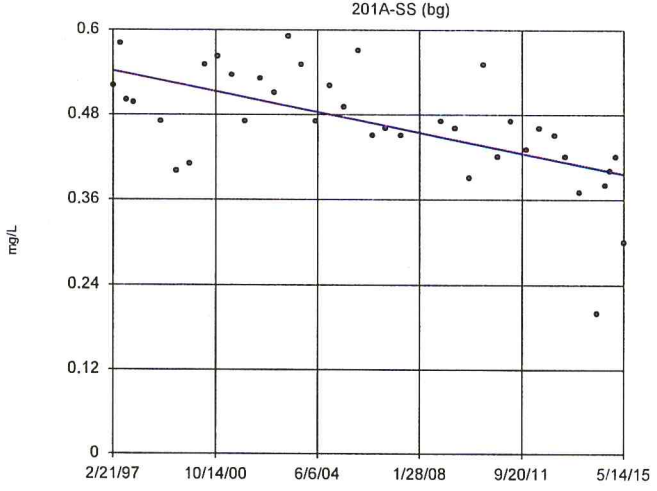
Sen's Slope Estimator

201A-SS (bg)



n = 38

Slope = -0.008016 units per year.

Mann-Kendall statistic = -341
critical = -186

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

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

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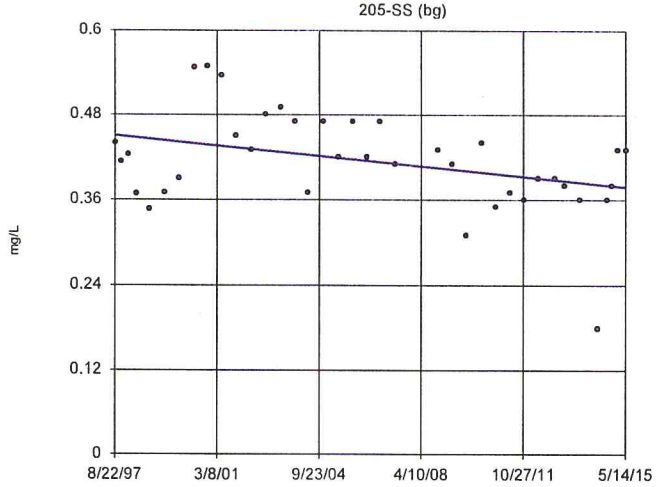
Sen's Slope Estimator

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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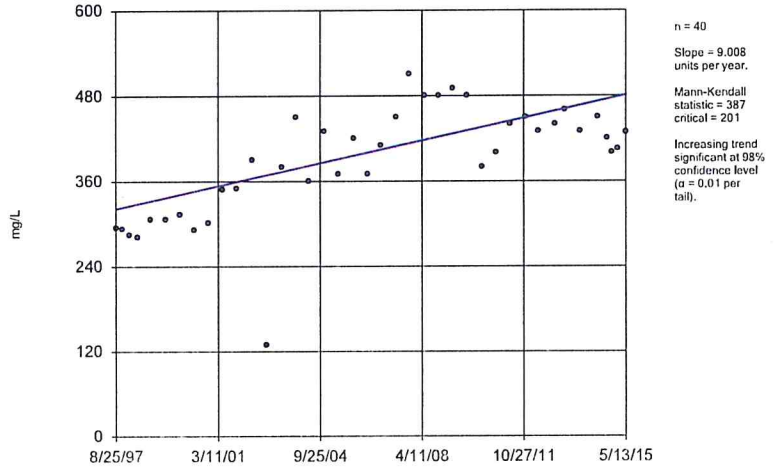
Sen's Slope Estimator

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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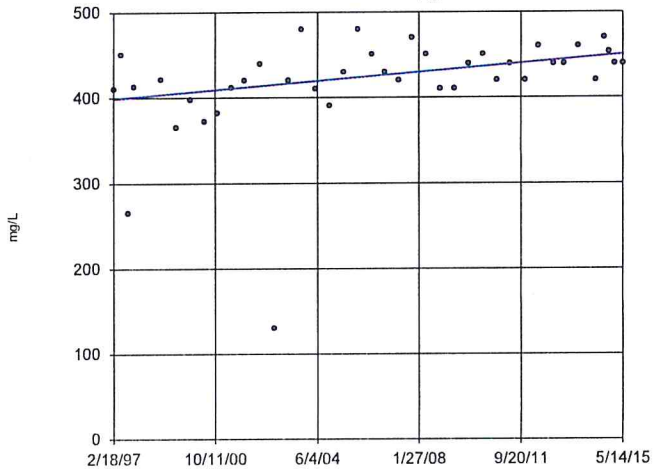
Sen's Slope Estimator

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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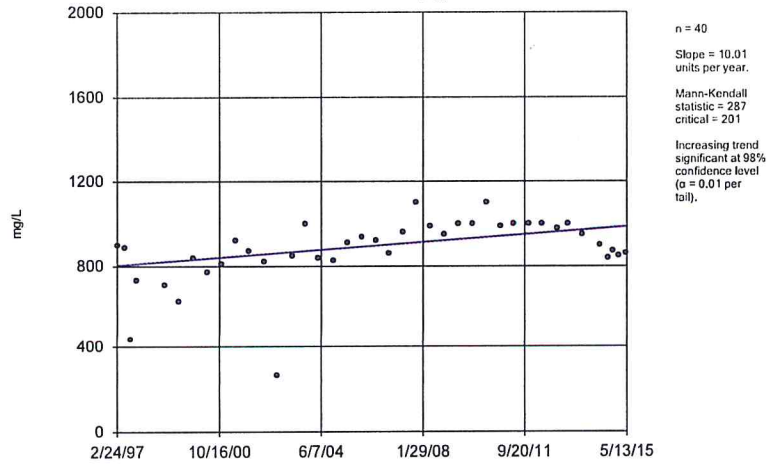
Sen's Slope Estimator

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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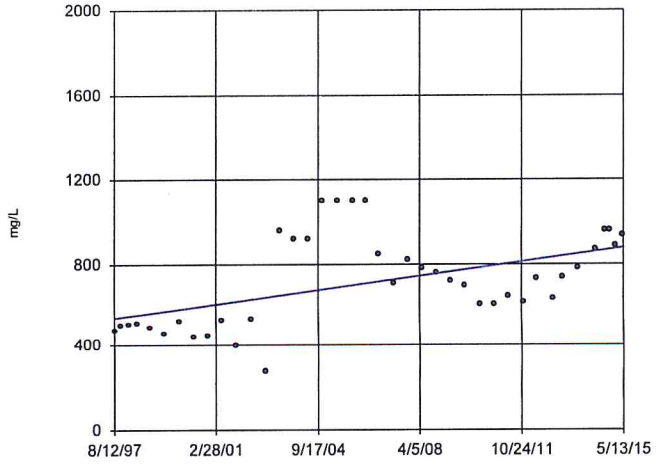
Sen's Slope Estimator

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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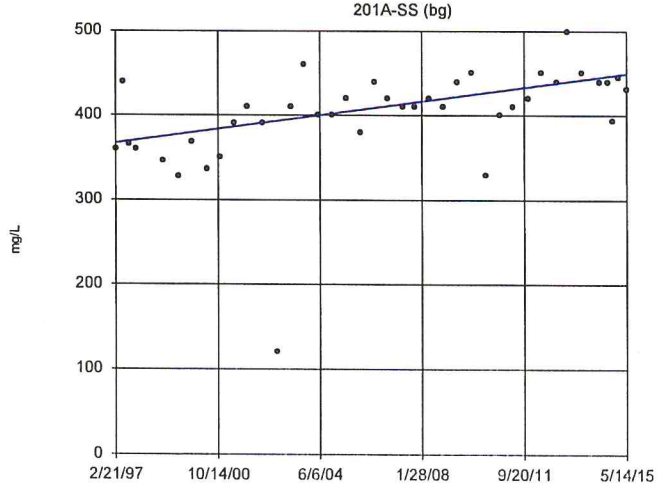
Sen's Slope Estimator

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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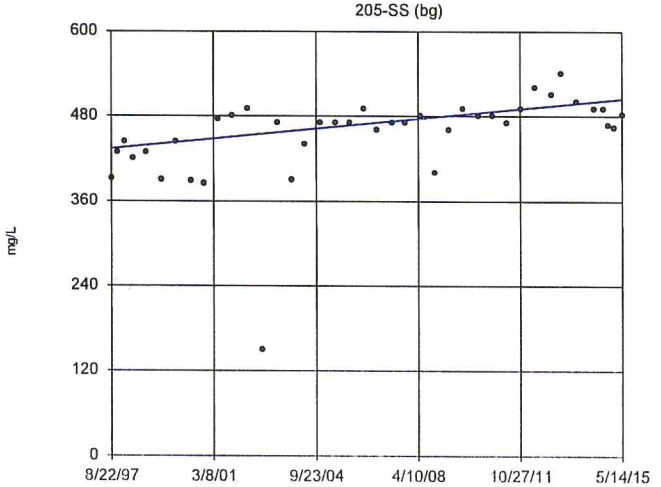
Sen's Slope Estimator

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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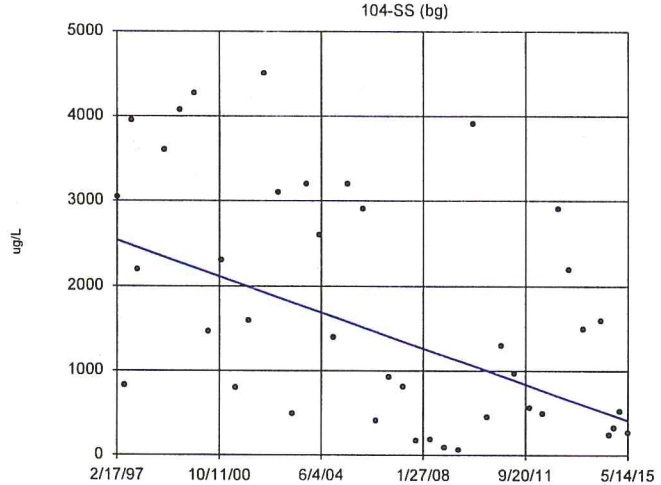
Sen's Slope Estimator

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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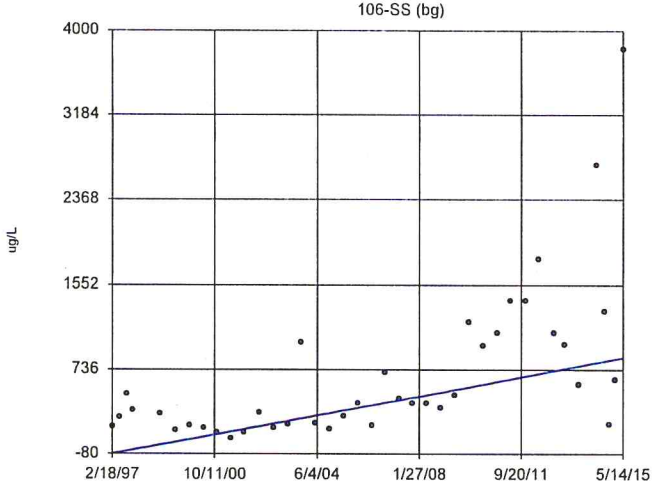
Sen's Slope Estimator

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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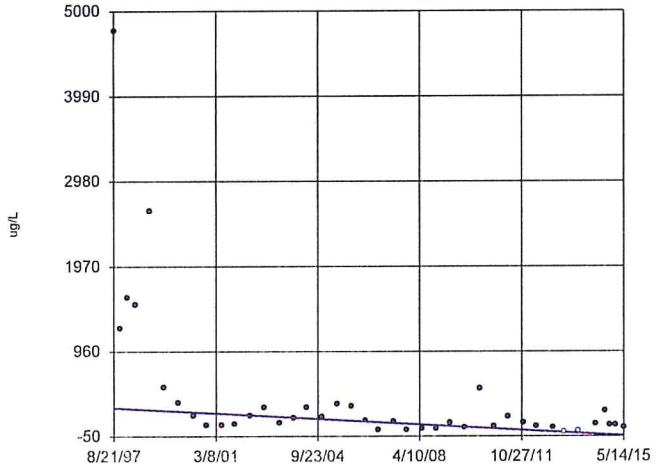
Hollow symbols indicate censored values.

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -18.82 units per year.

Mann-Kendall statistic = -357
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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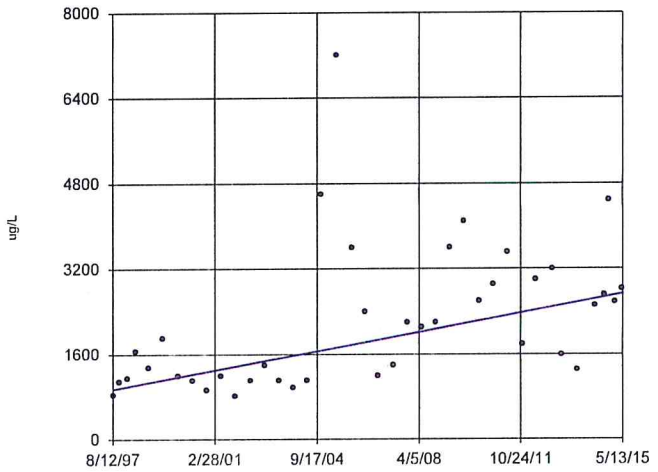
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 100.5 units per year.

Mann-Kendall statistic = 332
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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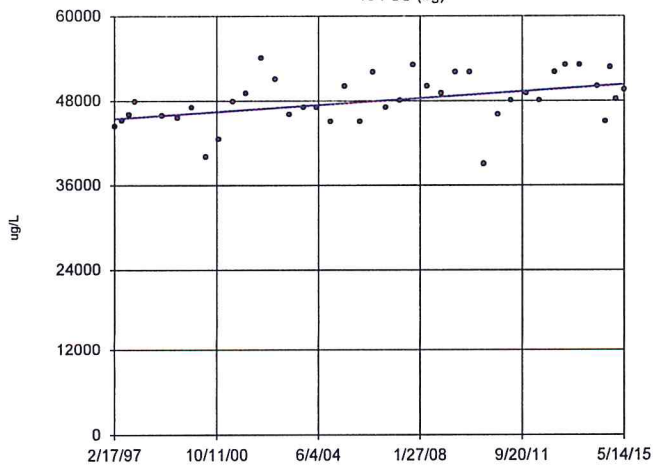
Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 266.6 units per year.

Mann-Kendall statistic = 263
critical = 201

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

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

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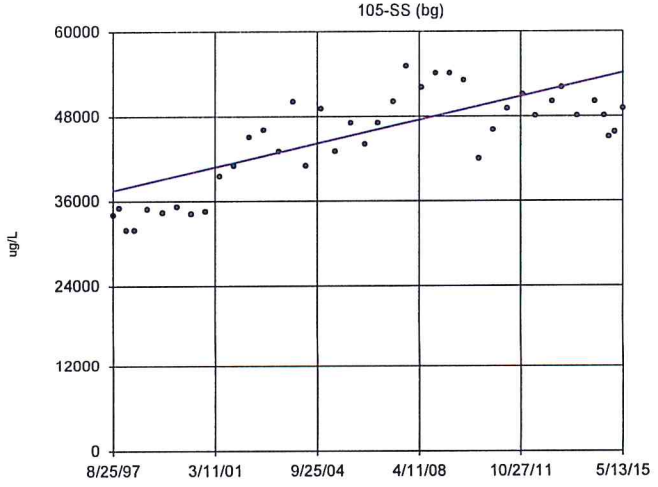
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 937 units per year.

Mann-Kendall statistic = 399
critical = 201

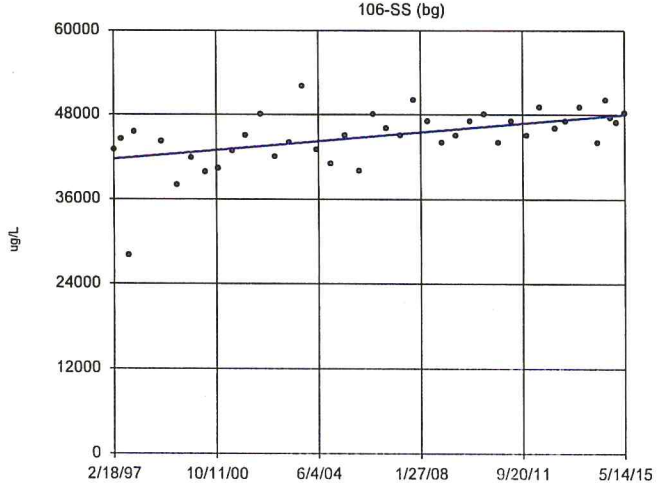
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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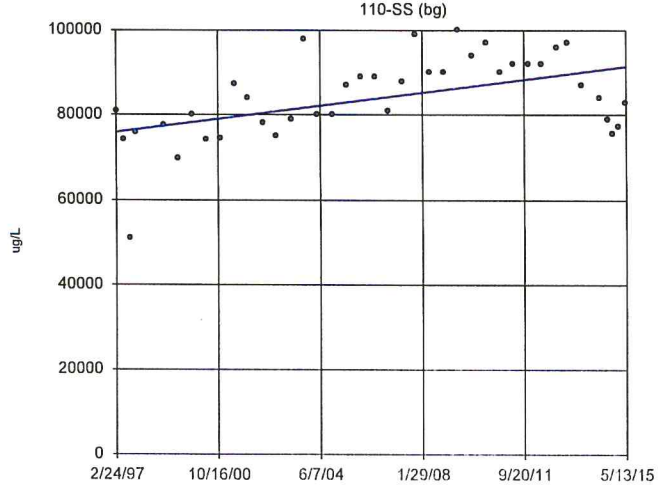
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 851.4 units per year.

Mann-Kendall statistic = 291 critical = 201

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

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

Bridgeton LF Client: RSI Data: BRIDGETON

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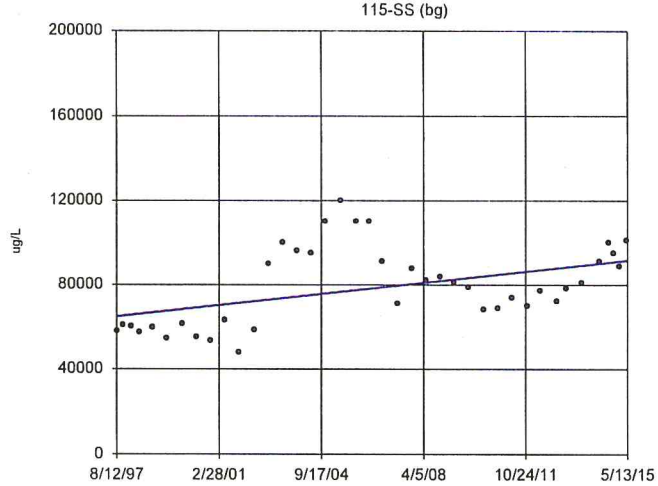
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 1502 units per year.

Mann-Kendall statistic = 244 critical = 201

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

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

Bridgeton LF Client: RSI Data: BRIDGETON

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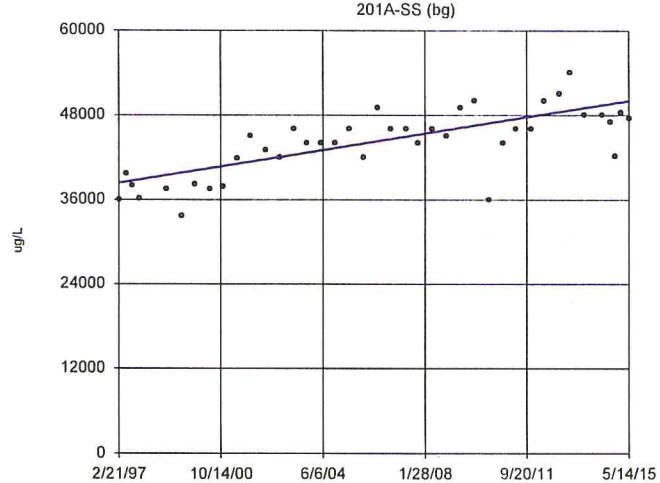
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 642.5 units per year.

Mann-Kendall statistic = 444 critical = 201

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

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

Bridgeton LF Client: RSI

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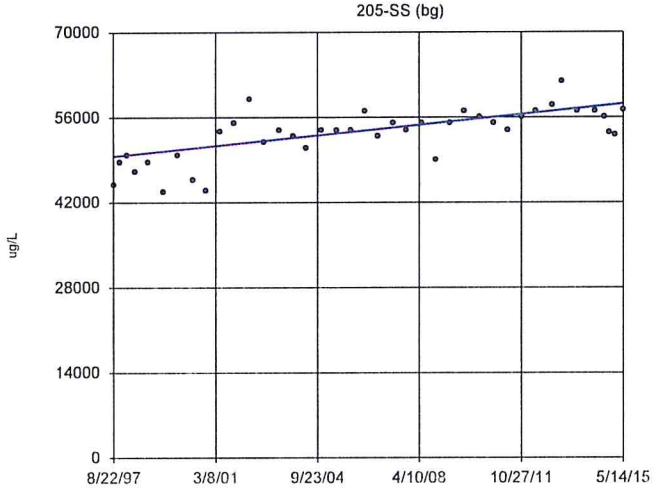
Sen's Slope Estimator

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

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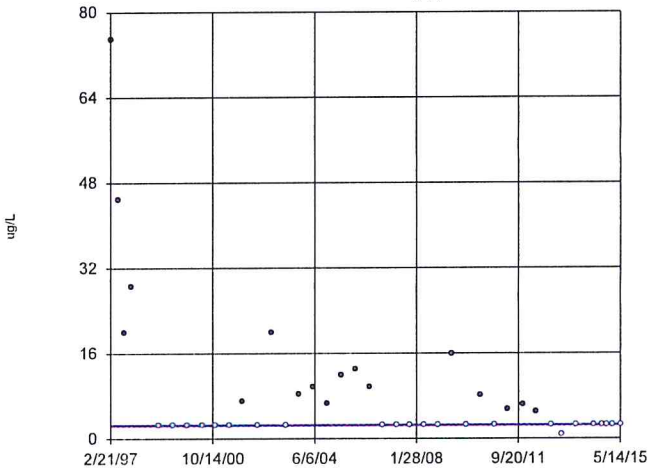
Hollow symbols indicate censored values.

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

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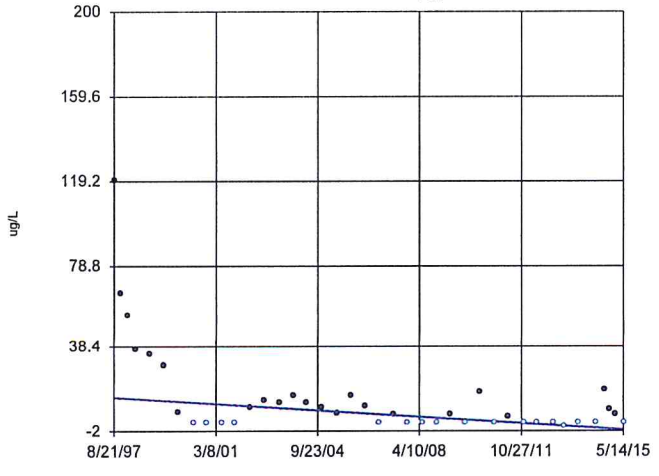
Hollow symbols indicate censored values.

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

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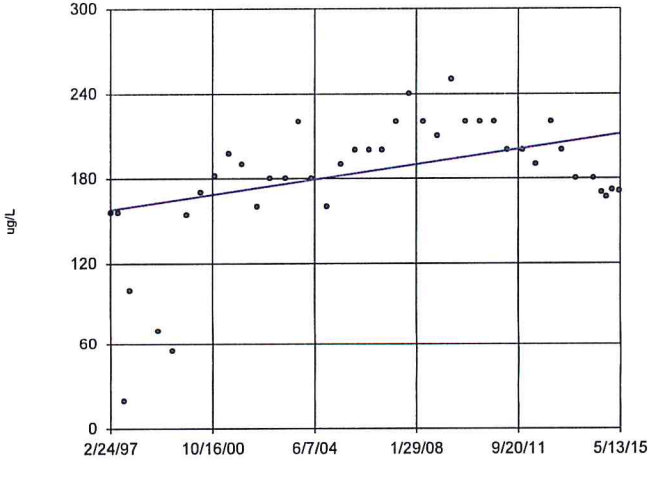
Sen's Slope Estimator

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

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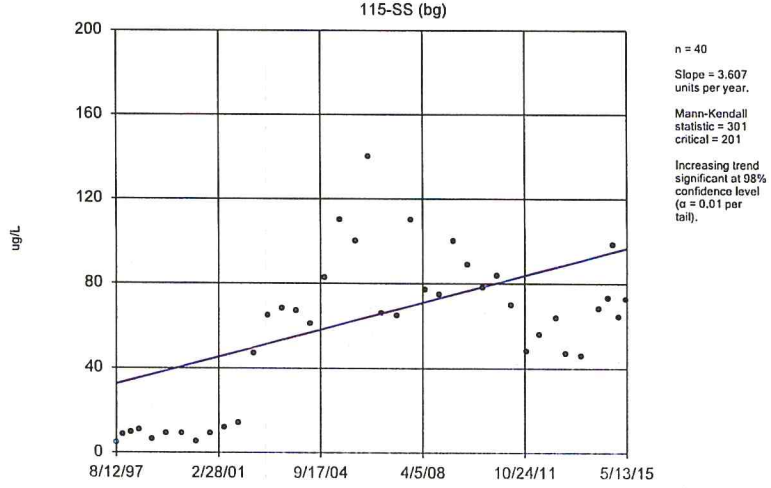
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 3.607 units per year.

Mann-Kendall statistic = 301
critical = 201

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

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

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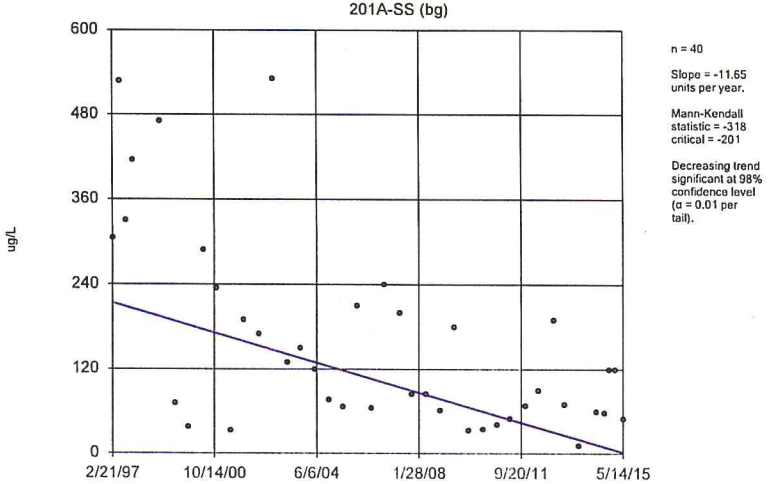
Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = -11.65 units per year.

Mann-Kendall statistic = -318
critical = -201

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

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

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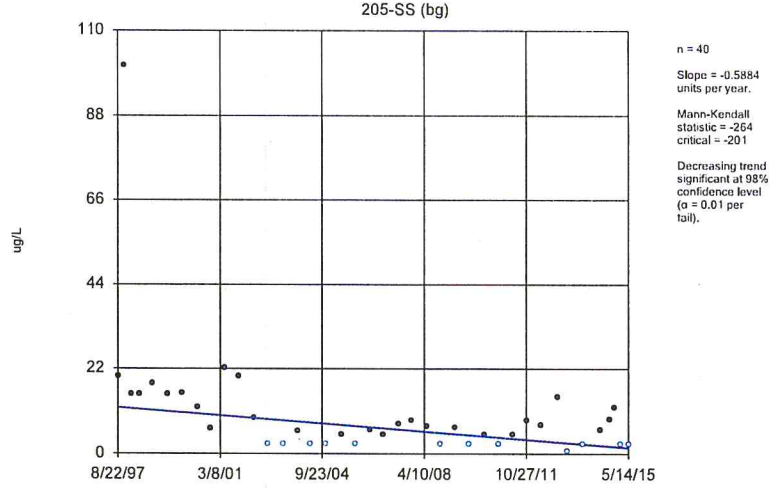
Hollow symbols indicate censored values.

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -0.5884 units per year.

Mann-Kendall statistic = -264
critical = -201

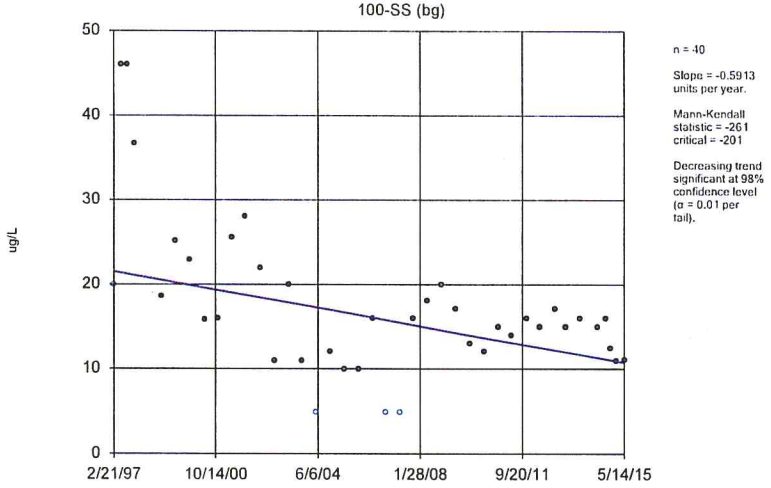
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

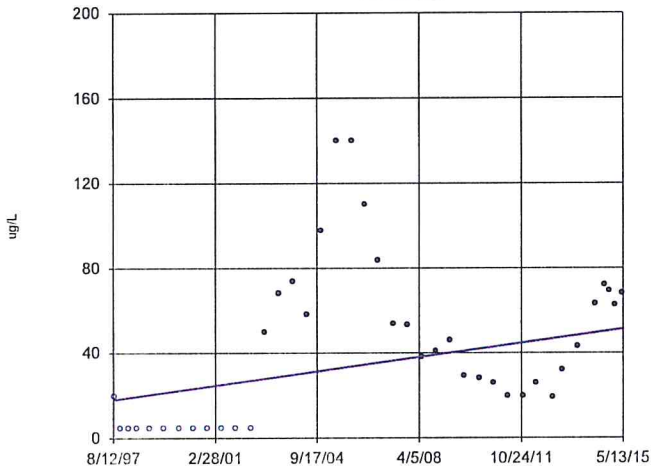
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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 = 1.87 units per year.

Mann-Kendall statistic = 232
critical = 201

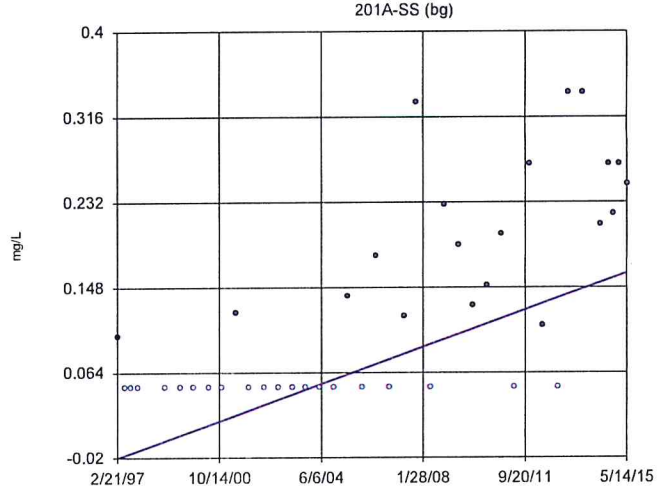
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

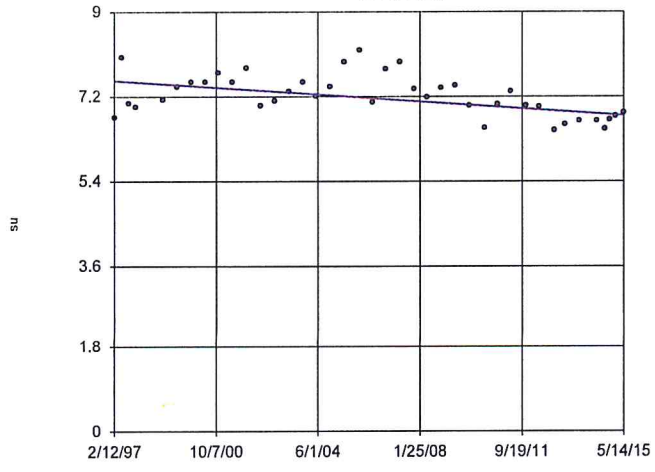
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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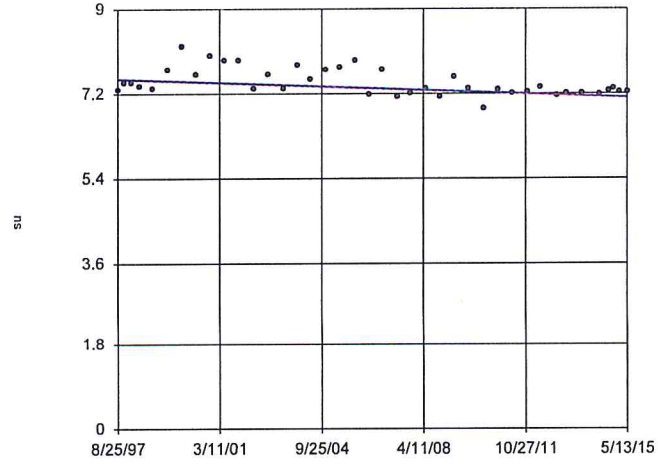
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.02251 units per year.

Mann-Kendall statistic = -283
critical = -201

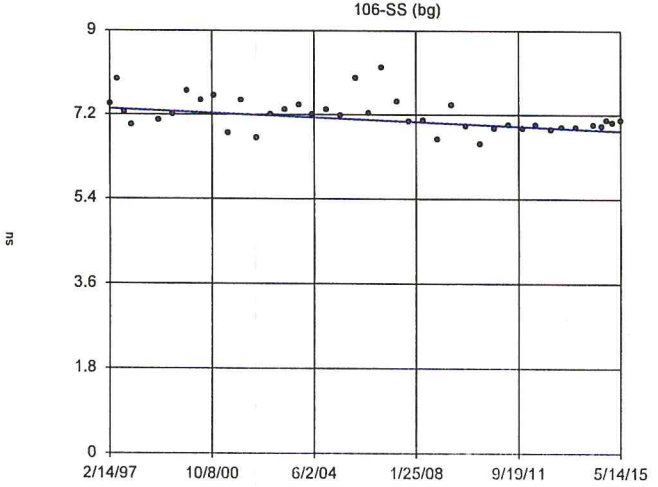
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

106-SS (bg)



n = 40

Slope = -0.02559 units per year.

Mann-Kendall statistic = -255 critical = -201

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

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

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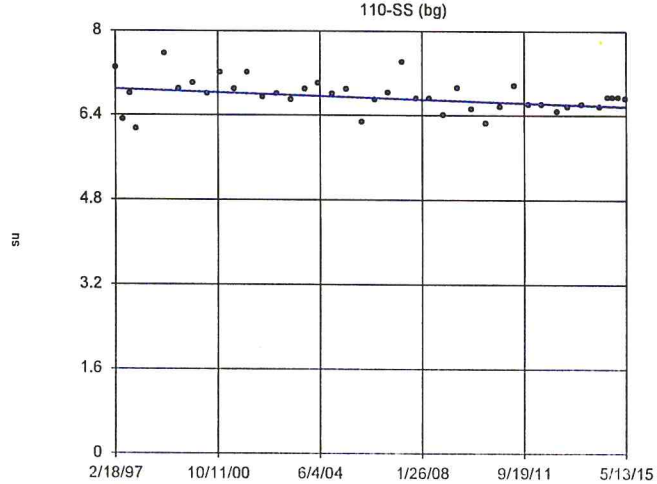
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -0.01825 units per year.

Mann-Kendall statistic = -207 critical = -201

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

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

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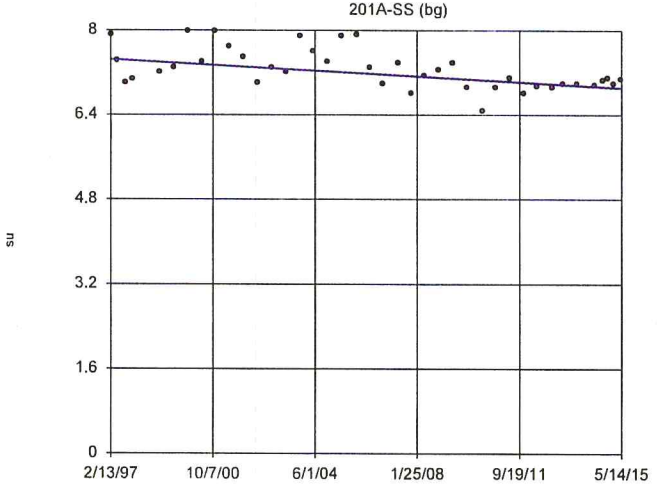
Sen's Slope Estimator

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

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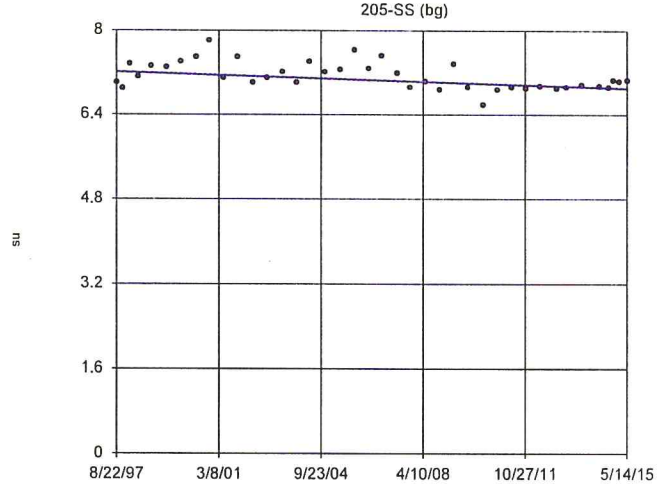
Sen's Slope Estimator

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

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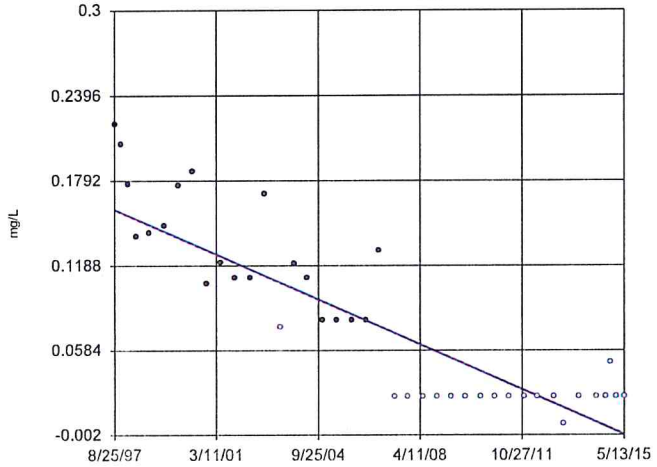
Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.009051 units per year.

Mann-Kendall statistic = -509
critical = -201

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

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

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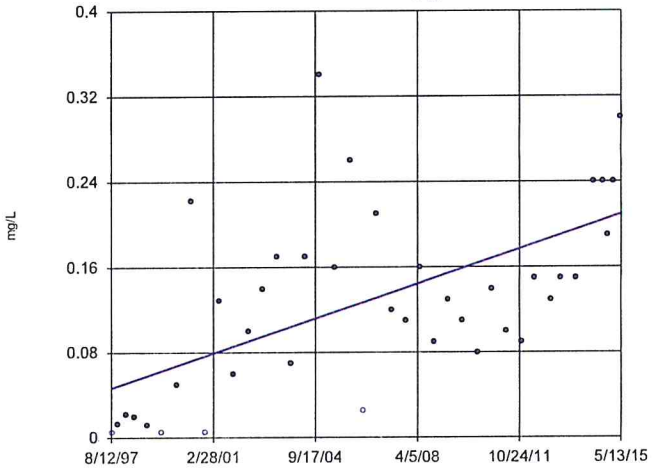
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 0.009173 units per year.

Mann-Kendall statistic = 344
critical = 201

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

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

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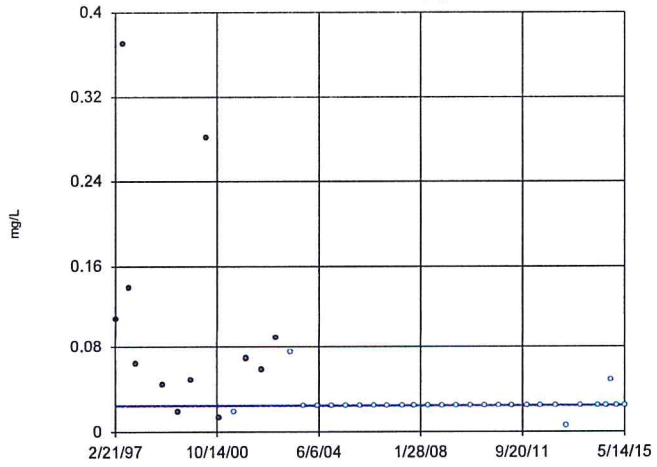
Hollow symbols indicate censored values.

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -217
critical = -201

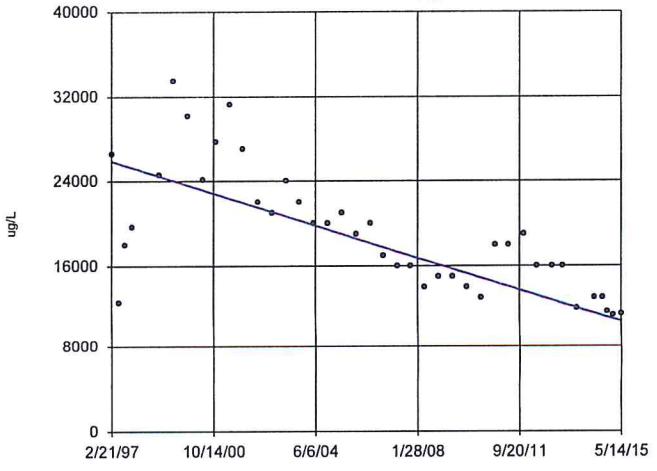
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

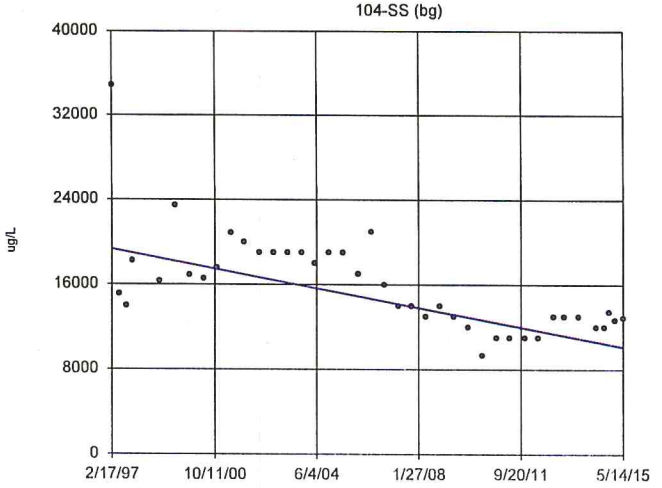
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

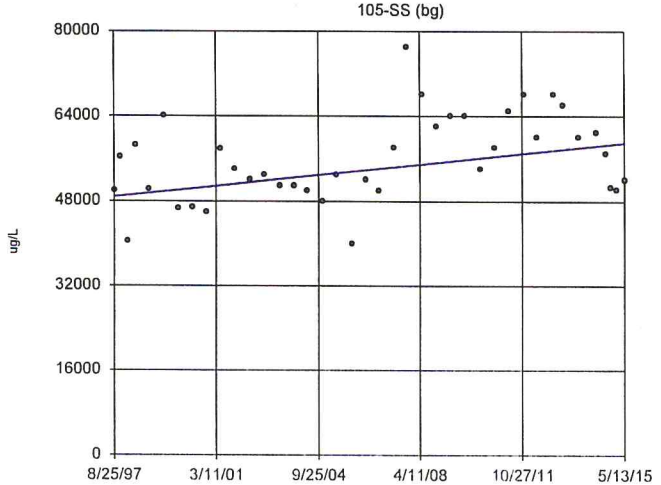
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

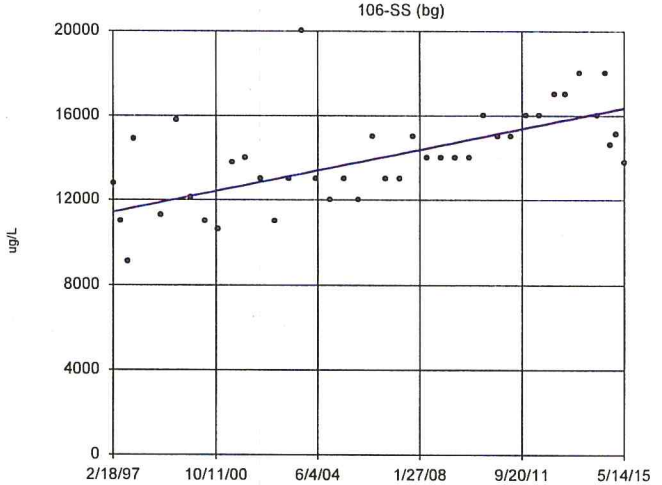
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

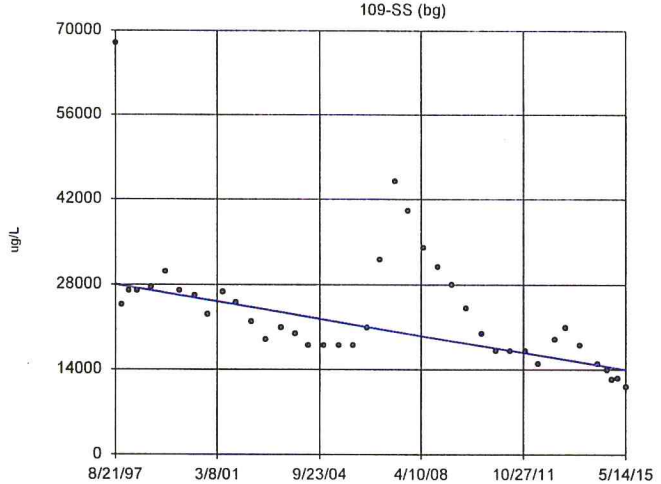
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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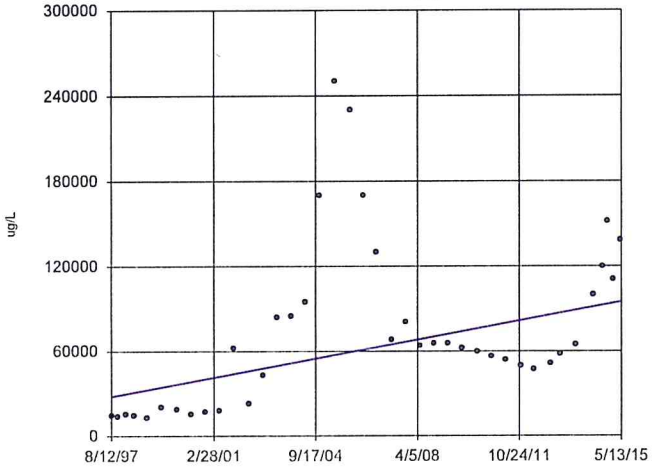
Sen's Slope Estimator

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

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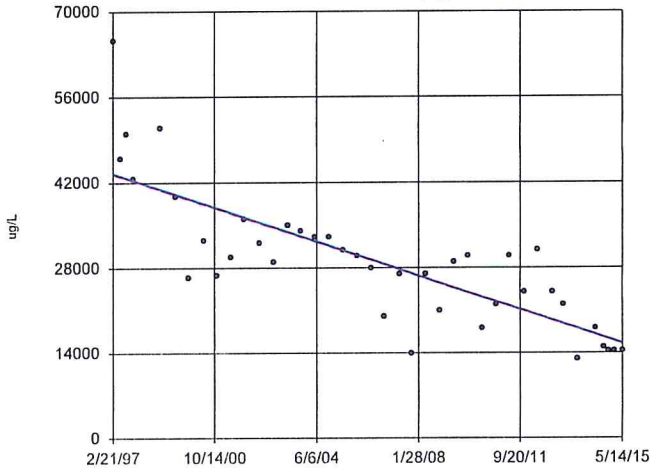
Sen's Slope Estimator

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

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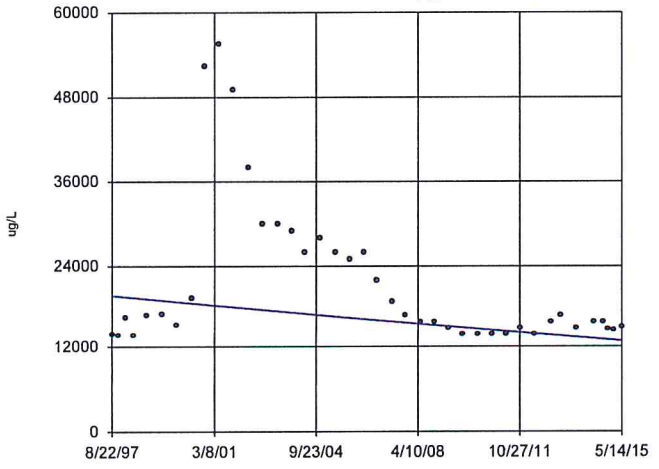
Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = -392.5 units per year.

Mann-Kendall statistic = -234 critical = -201

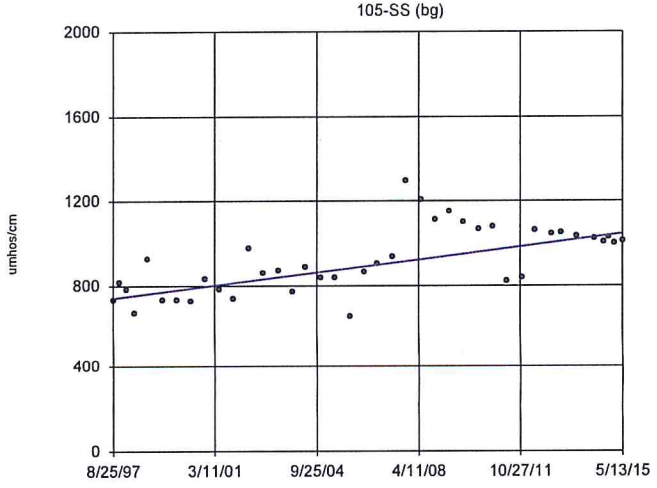
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 17.15 units per year.

Mann-Kendall statistic = 333 critical = 201

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

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

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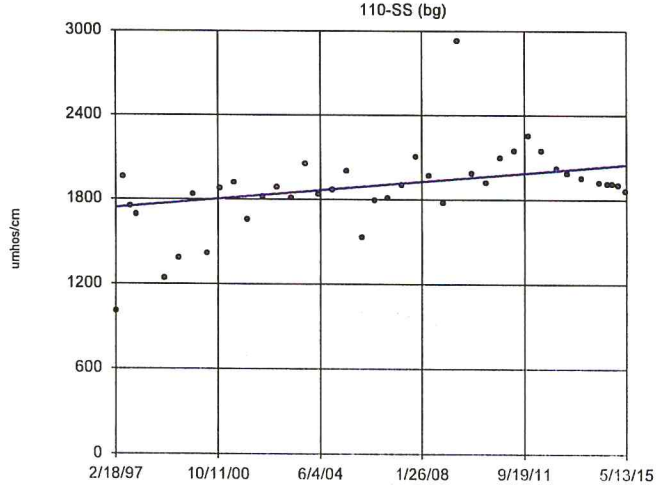
Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = 16.95 units per year.

Mann-Kendall statistic = 292 critical = 201

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

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

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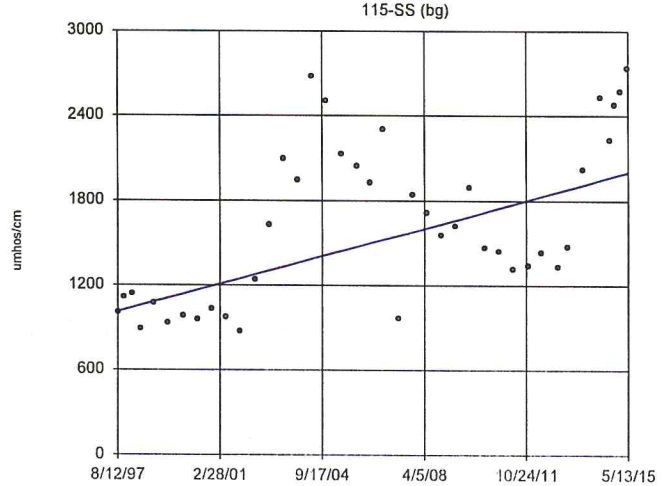
Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = 55.65 units per year.

Mann-Kendall statistic = 298 critical = 201

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

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

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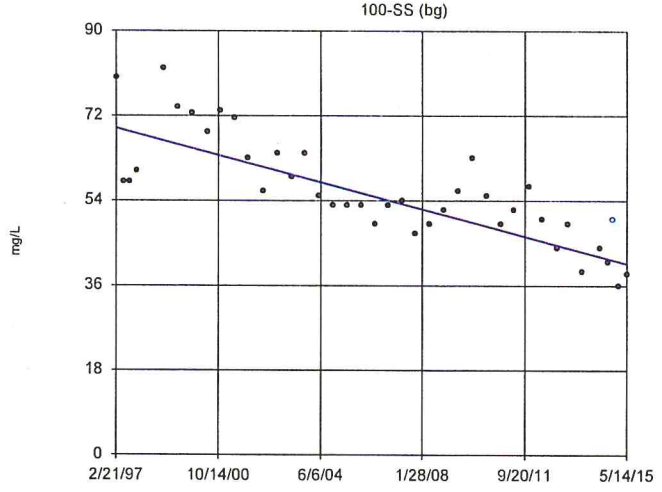
Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = -1.575 units per year.

Mann-Kendall statistic = -512 critical = -201

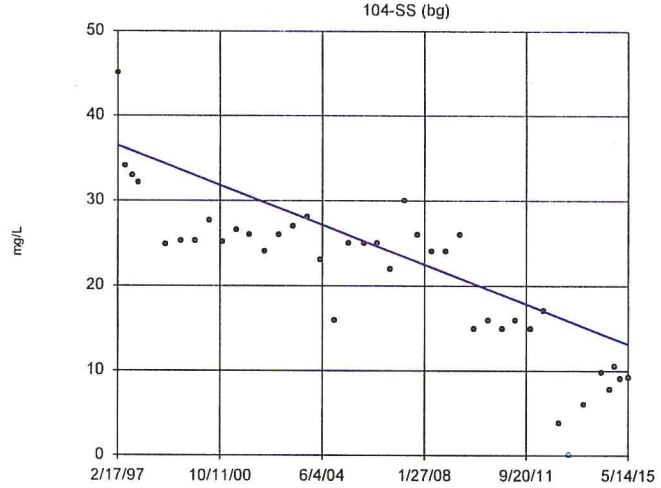
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate as S[illegible] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF [illegible] Data: BRIDGETON

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

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = -1.275 units per year.

Mann-Kendall statistic = -505 critical = -201

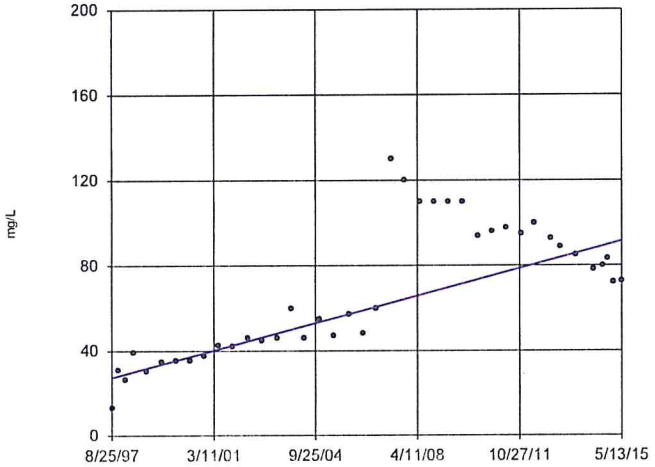
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 3.61 units per year.

Mann-Kendall statistic = 428
critical = 201

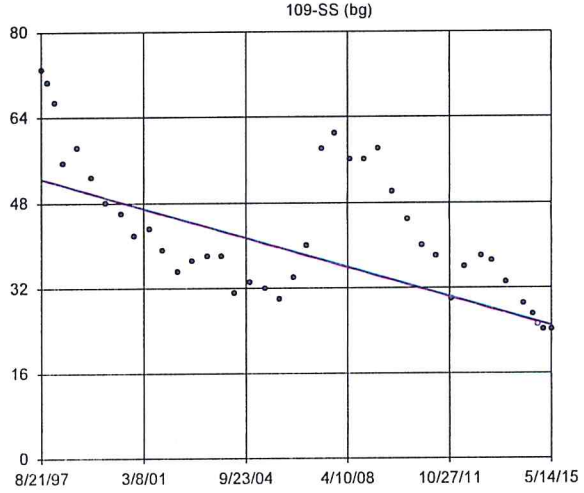
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

109-SS (bg)



n = 40

Slope = -1.556 units per year.

Mann-Kendall statistic = -397
critical = -201

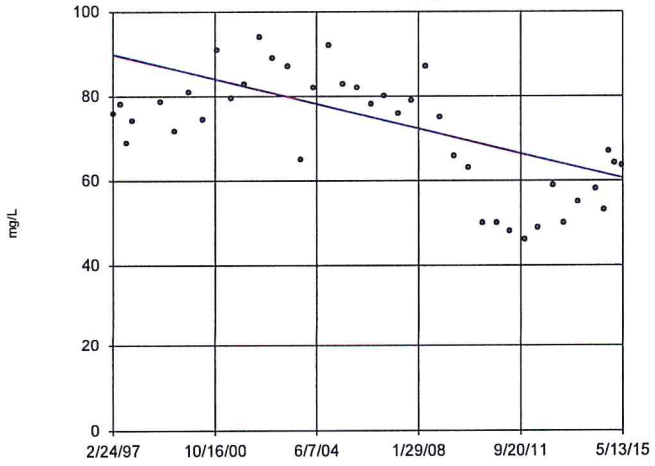
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

110-SS (bg)



n = 40

Slope = -1.606 units per year.

Mann-Kendall statistic = -300
critical = -201

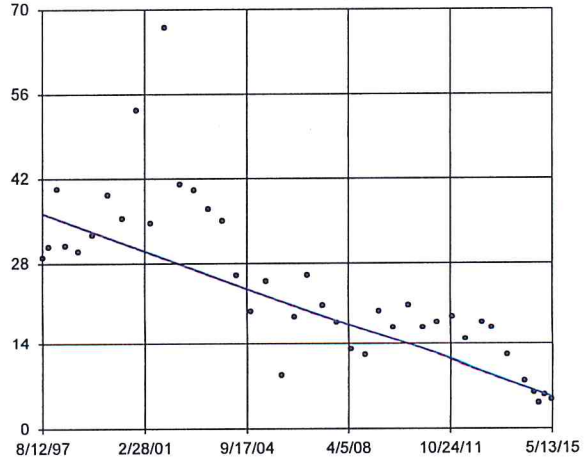
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

115-SS (bg)



n = 40

Slope = -1.746 units per year.

Mann-Kendall statistic = -505
critical = -201

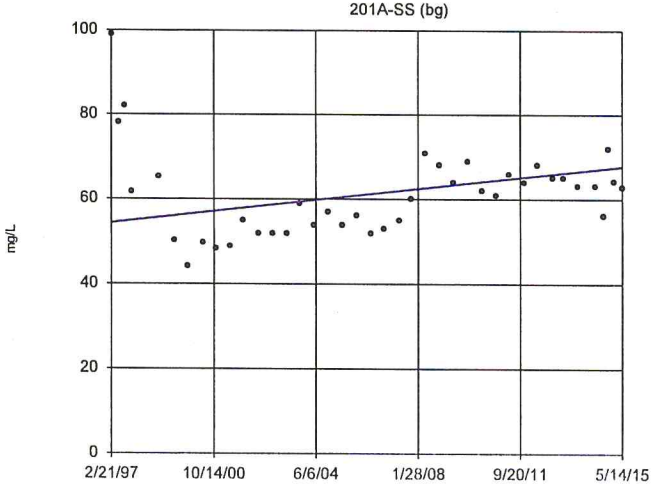
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

Sen's Slope Estimator

201A-SS (bg)



n = 40

Slope = 0.7361 units per year.

Mann-Kendall statistic = 205 critical = 201

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

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

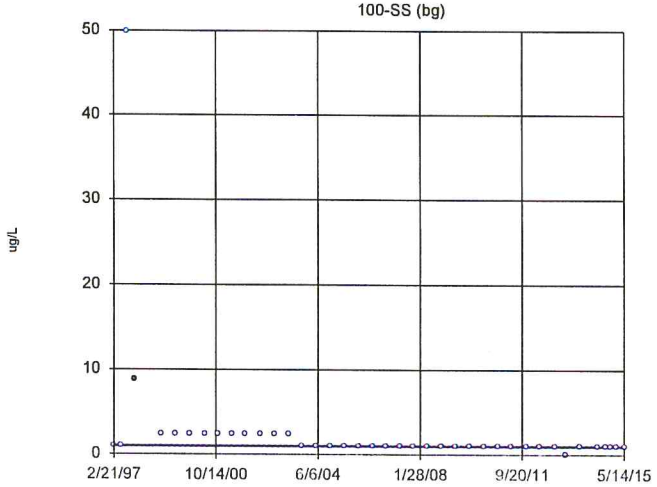
Bridgeton LF Client: RSI Data: BRIDGETON

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

100-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -324 critical = -201

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

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

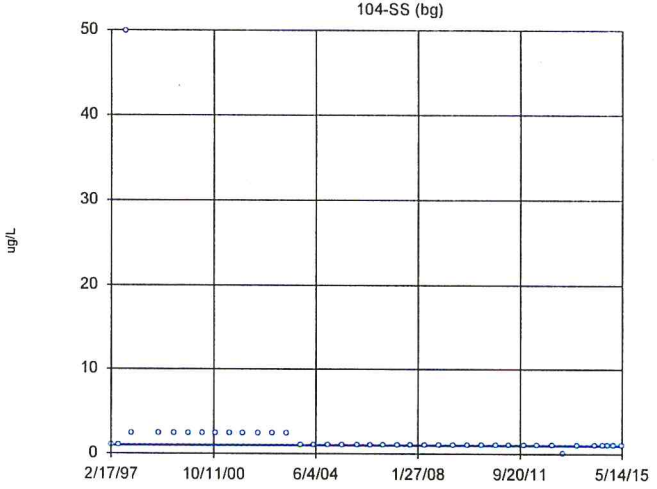
Bridgeton LF Client: RSI Data: BRIDGETON

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SS (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -314 critical = -201

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

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

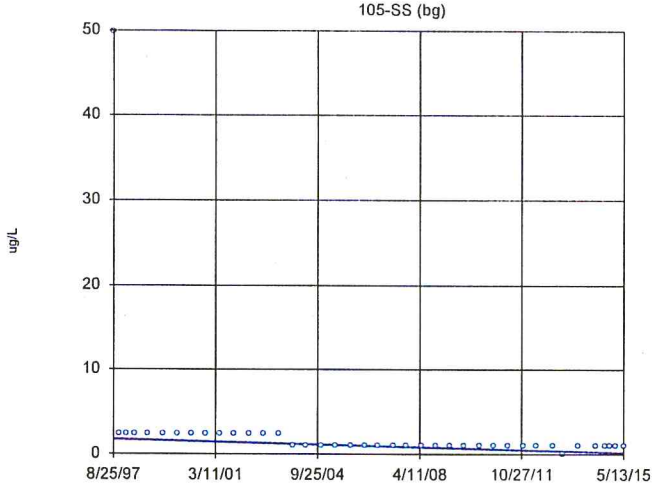
Bridgeton LF Client: RSI Data: BRIDGETON

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

Hollow symbols indicate censored values.

Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = -0.08868 units per year.

Mann-Kendall statistic = -390 critical = -201

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

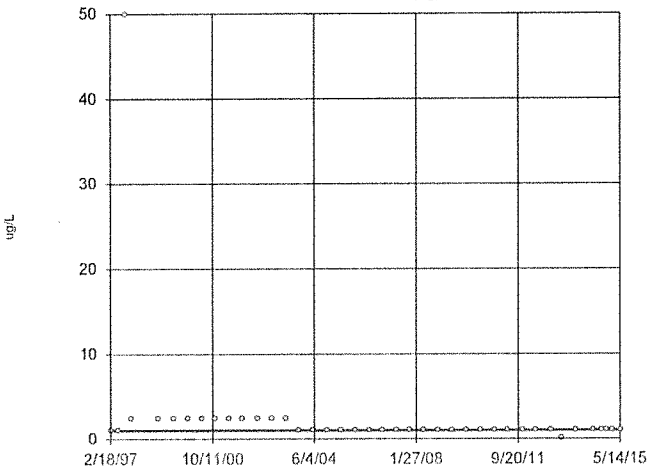
Constituent: Thallium Total Analysis Run [illegible]016 1:06 PM

Bridgeton LF Client: RSI Dat[illegible]N

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

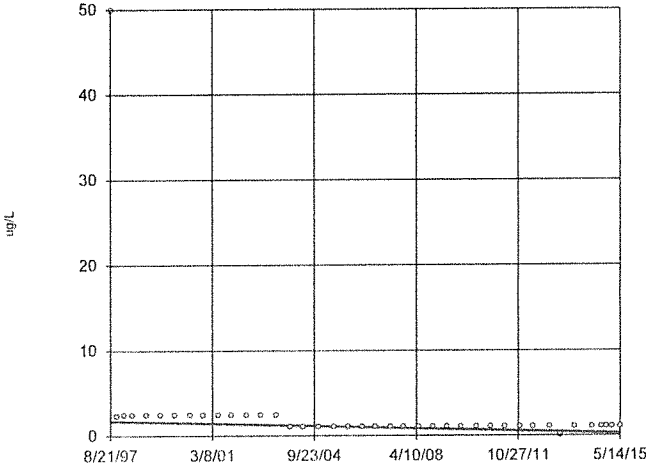
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

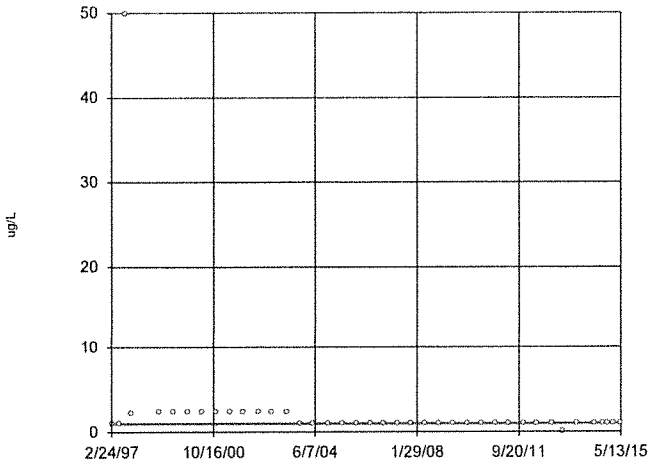
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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 = -384
critical = -201

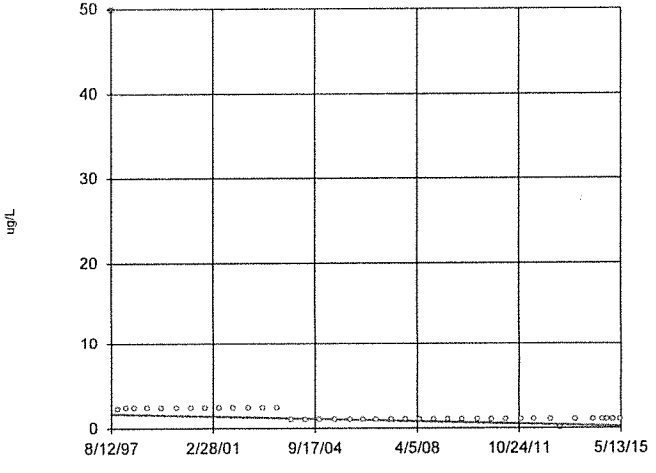
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

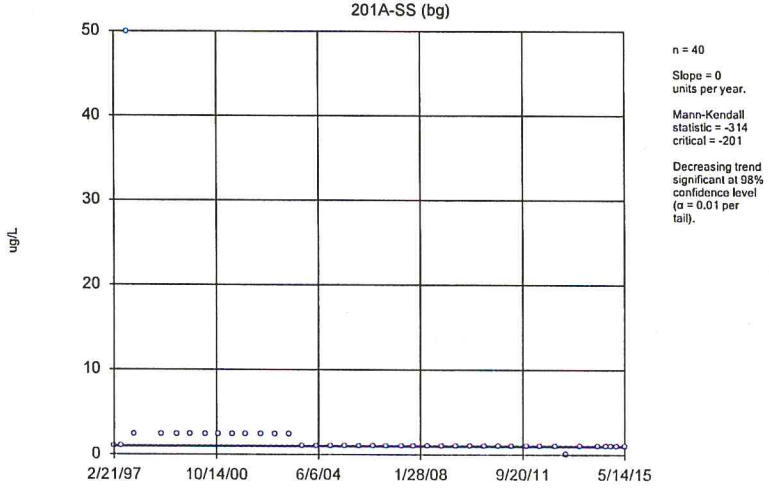
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

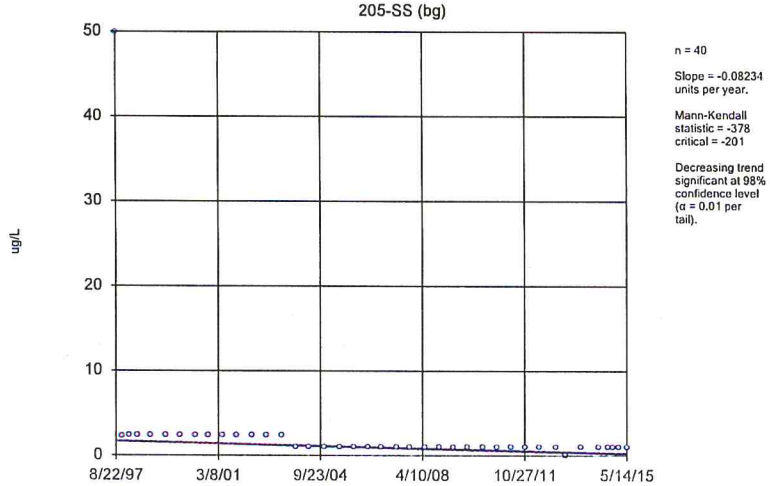
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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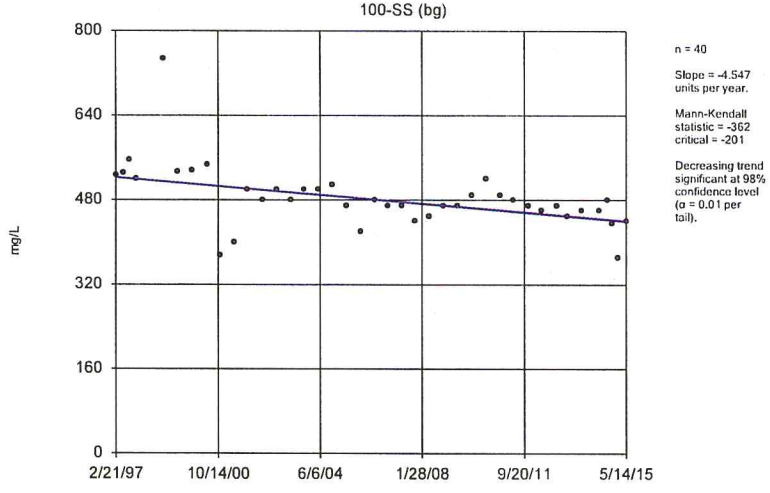
Sen's Slope Estimator

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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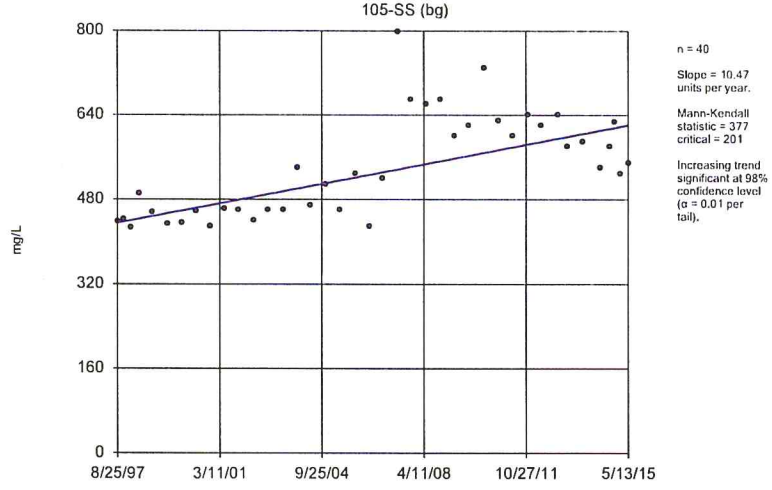
Sen's Slope Estimator

105-SS (bg)



n = 40

Slope = 10.47 units per year.

Mann-Kendall statistic = 377
critical = 201

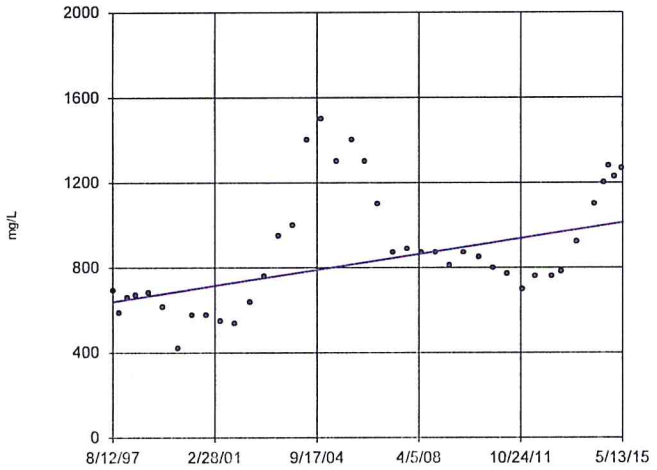
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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

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

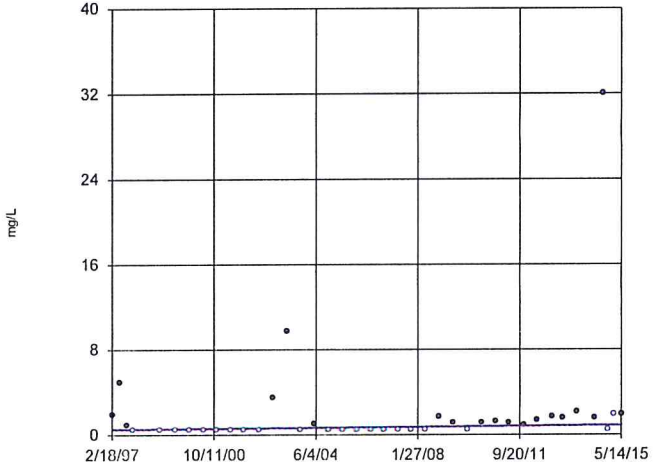
Bridgeton LF Client: RSI Data: BRIDGETON

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 = 0.02137 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

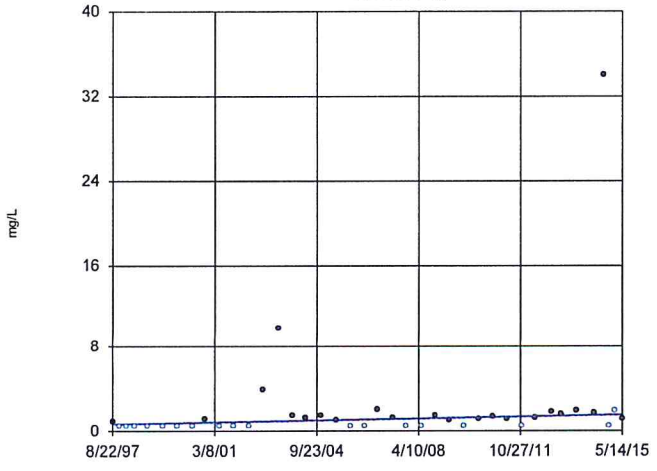
Bridgeton LF Client: RSI Data: BRIDGETON

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 = 0.04989 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

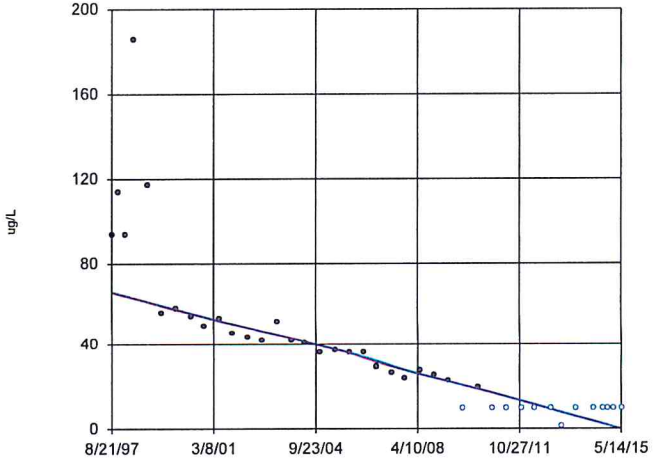
Bridgeton LF Client: RSI Data: BRIDGETON

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).

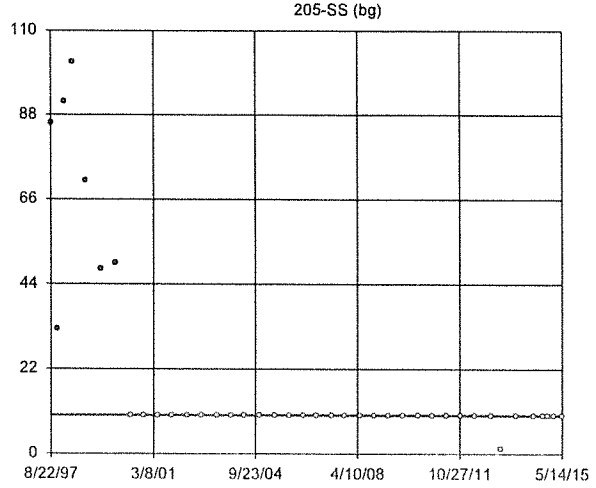
Constituent: Zinc Total Analysis Run 1/7/2016 1:06 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

205-SS (bg)



n = 40

Slope = 0
units per year.

Mann-Kendall
statistic = -254
critical = -201

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

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

INTRA-WELL PREDICTION LIMITS

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

St. Louis Formation Zone

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

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

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:40 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	2/8/2017	0.05ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	104-SS	0.47	n/a	2/9/2017	0.05ND	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	109-SS	0.31	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	105-SS	0.14	n/a	2/9/2017	0.05ND	No	44	n/a	n/a	86.36	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	106-SS	0.80	n/a	2/8/2017	0.18	No	44	n/a	n/a	63.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	110-SS	0.59	n/a	2/7/2017	0.29	No	42	0.3026	0.1123	4.762	None	No	0.00008608	Param Intra 1 of 2
Ammonia as N (mg/L)	**115-SS**	**1.0**	**n/a**	**2/17/2017**	**1.2**	**Yes**	**44**	**n/a**	**n/a**	**61.36**	**n/a**	**n/a**	**0.0009916**	**NP Intra (NDs) 1 of 2**
Ammonia as N (mg/L)	201A-SS	0.32	n/a	2/17/2017	0.05ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	205-SS	0.34	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SS	770	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	109-SS	1800	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	105-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	110-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	201A-SS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	205-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SS	3000	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SS	11	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	109-SS	5800	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	105-SS	3.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SS	11	n/a	2/8/2017	5.7	No	44	n/a	n/a	52.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	110-SS	5.2	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	115-SS	19	n/a	2/17/2017	6.2	No	44	n/a	n/a	52.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	201A-SS	6.5	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	205-SS	5.2	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SS	80	n/a	2/8/2017	63.7	No	44	315454	74186	0	None	x^3	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	109-SS	76	n/a	2/7/2017	59.5	No	44	63.67	4.952	0	None	No	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	**106-SS**	**170**	**n/a**	**2/8/2017**	**180**	**Yes**	**43**	**4.964**	**0.07623**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Barium Total (ug/L)	201A-SS	150	n/a	2/17/2017	128	No	43	113.5	15.41	0	None	No	0.00008608	Param Intra 1 of 2
Beryllium Total (ug/L)	100-SS	2.0	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SS	2.0	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	109-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	105-SS	2.0	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SS	2.0	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	110-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	115-SS	2.0	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	201A-SS	2.0	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	205-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	109-SS	370	n/a	2/7/2017	184	No	44	5.49	0.1585	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Boron Total (ug/L)	105-SS	100	n/a	2/9/2017	50ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SS	100	n/a	2/8/2017	50ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	110-SS	320	n/a	2/7/2017	222	No	42	5.521	0.0964	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Boron Total (ug/L)	201A-SS	100	n/a	2/17/2017	50ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	205-SS	280	n/a	2/7/2017	50ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SS	2.5	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SS	0.20	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	109-SS	4.6	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	105-SS	2.5	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SS	2.5	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:40 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium Total (ug/L)	110-SS	0.20	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	115-SS	2.5	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	201A-SS	2.5	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	205-SS	5.8	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	100-SS	110000	n/a	2/8/2017	89000	No	43	45.5	0.7891	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	104-SS	96000	n/a	2/9/2017	82600	No	44	6.8e9	9.8e8	0	None	x^2	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	109-SS	95000	n/a	2/7/2017	89000	No	43	4.0e29	1.4e29	0	None	x^6	0.00008608	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SS	21	n/a	2/8/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SS	96	n/a	2/9/2017	24.2	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	109-SS	18	n/a	2/7/2017	5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	105-SS	42	n/a	2/9/2017	5ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SS	66	n/a	2/8/2017	15.1	No	44	n/a	n/a	86.36	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	110-SS	120	n/a	2/7/2017	53.9	No	44	3.575	0.5073	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	115-SS	160	n/a	2/17/2017	44.4	No	44	3.109	0.8796	27.27	Kaplan-Meier	x^(1/3)	0.00008608	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	201A-SS	27	n/a	2/17/2017	5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	205-SS	52	n/a	2/7/2017	5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chloride (mg/L)	100-SS	12	n/a	2/8/2017	6.1	No	44	1.682	0.3006	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	109-SS	17	n/a	2/7/2017	3.9	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Chromium Total (ug/L)	100-SS	21	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	104-SS	6.6	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	109-SS	14	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	84.09	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	105-SS	6.4	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	106-SS	8.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	110-SS	38	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	115-SS	5.5	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	201A-SS	7.5	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	205-SS	52	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	86.36	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	104-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	109-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	105-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	110-SS	10	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	115-SS	62	n/a	2/17/2017	29.6	No	44	n/a	n/a	38.64	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Cobalt Total (ug/L)	201A-SS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	205-SS	10	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SS	20	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	109-SS	31	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	105-SS	10	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	106-SS	10	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	110-SS	41	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	72.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	115-SS	21	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	84.09	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	201A-SS	10	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	205-SS	46	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	100-SS	0.96	n/a	2/8/2017	0.48	No	29	0.4699	0.1665	0	None	x^2	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	104-SS	0.98	n/a	2/9/2017	0.67	No	28	0.547	0.1494	0	None	x^2	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	105-SS	1.1	n/a	2/9/2017	0.5	No	30	0.6586	0.1591	0	None	No	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	106-SS	2.4	n/a	2/8/2017	1.7	No	30	1.939	0.176	0	None	No	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	[illegible]	1.4	n/a	2/7/2017	0.27	No	30	-0.9585	[illegible]	0	None	ln(x)	0.00008608	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:40 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	115-SS	2.8	n/a	2/17/2017	0.41	No	30	0.9104	0.1837	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	201A-SS	0.64	n/a	2/17/2017	0.3	No	30	0.1904	0.07845	0	None	x^2	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	205-SS	0.6	n/a	2/7/2017	0.34	No	30	0.3865	0.07775	0	None	No	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	100-SS	510	n/a	2/8/2017	430	No	43	4.3e10	9.4e9	0	None	x^4	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	104-SS	470	n/a	2/9/2017	410	No	43	6.6e7	1.3e7	0	None	x^3	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	109-SS	740	n/a	2/7/2017	435	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Iron Total (ug/L)	100-SS	2000	n/a	2/8/2017	25ND	No	44	n/a	n/a	27.27	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Iron Total (ug/L)	104-SS	7900	n/a	2/9/2017	178	No	44	10.75	3.552	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	109-SS	4900	n/a	2/7/2017	25ND	No	44	4.863	1.399	13.64	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	105-SS	13000	n/a	2/9/2017	4510	No	44	7.062	0.9432	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	110-SS	9900	n/a	2/7/2017	5780	No	43	4.8e7	1.9e7	0	None	x^2	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	201A-SS	5000	n/a	2/17/2017	25ND	No	44	5.819	1.043	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	205-SS	6500	n/a	2/7/2017	165	No	44	6.369	0.9294	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Lead Total (ug/L)	100-SS	2700	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	104-SS	25	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	109-SS	3400	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	105-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	110-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	115-SS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	201A-SS	25	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	205-SS	89	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SS	60000	n/a	2/8/2017	50500	No	44	2.8e9	3.2e8	0	None	x^2	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	109-SS	57000	n/a	2/7/2017	51600	No	43	3.7e23	9.3e22	0	None	x^5	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	100-SS	75	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	59.09	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Manganese Total (ug/L)	104-SS	96	n/a	2/9/2017	23.4	No	43	5.443	1.667	2.326	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	109-SS	120	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	47.73	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Manganese Total (ug/L)	105-SS	180	n/a	2/9/2017	107	No	44	2.919	0.887	2.273	None	ln(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	106-SS	50	n/a	2/8/2017	16.4	No	42	4.211	1.09	2.381	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	201A-SS	1200	n/a	2/17/2017	8.8	No	44	4.545	0.9709	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	205-SS	100	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	36.36	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	100-SS	0.20	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	104-SS	0.30	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	109-SS	0.20	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	105-SS	0.20	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SS	0.20	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	110-SS	0.20	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	115-SS	0.20	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	201A-SS	0.35	n/a	2/17/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	205-SS	0.20	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SS	52	n/a	2/8/2017	10.2	No	44	2.718	0.476	9.091	None	ln(x)	0.00008608	Param Intra 1 of 2
Nickel Total (ug/L)	104-SS	23	n/a	2/9/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	109-SS	20	n/a	2/7/2017	5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	105-SS	20	n/a	2/9/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	106-SS	20	n/a	2/8/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	110-SS	55	n/a	2/7/2017	14	No	44	n/a	n/a	22.73	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Nickel Total (ug/L)	201A-SS	20	n/a	2/17/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	205-SS	32	n/a	2/7/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SS	0.27	n/a	2/8/2017	0.05ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SS	0.39	n/a	2/9/2017	0.05ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:40 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Nitrate/Nitrite (mg/L)	109-SS	0.50	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	86.36	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	105-SS	0.50	n/a	2/9/2017	0.05ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SS	0.54	n/a	2/8/2017	0.05ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	110-SS	5.0	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	115-SS	5.0	n/a	2/17/2017	0.05ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	205-SS	0.18	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SS	8.0	6.6	2/8/2017	7.2	No	44	n/a	n/a	0	n/a	n/a	0.001983	NP Intra (normality) 1 of 2
pH [Field] (su)	109-SS	8	6.5	2/7/2017	7	No	43	1.973	0.03978	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	110-SS	7.5	6.1	2/7/2017	6.69	No	44	1.911	0.0426	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	115-SS	7.5	6.1	2/17/2017	6.57	No	43	1.91	0.04106	0	None	ln(x)	0.00004304	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SS	0.21	n/a	2/8/2017	0.025ND	No	44	n/a	n/a	72.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	104-SS	0.46	n/a	2/9/2017	0.025ND	No	44	n/a	n/a	63.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	109-SS	0.25	n/a	2/7/2017	0.025ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	105-SS	0.22	n/a	2/9/2017	0.025ND	No	44	n/a	n/a	54.55	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	106-SS	0.38	n/a	2/8/2017	0.025ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	110-SS	0.45	n/a	2/7/2017	0.14	No	43	-1.823	0.3907	4.651	None	ln(x)	0.00008608	Param Intra 1 of 2
Phosphorus Total (mg/L)	201A-SS	0.37	n/a	2/17/2017	0.025ND	No	44	n/a	n/a	72.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	205-SS	0.11	n/a	2/7/2017	0.025ND	No	44	n/a	n/a	72.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	100-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	109-SS	39	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	105-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	110-SS	50	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	115-SS	50	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	201A-SS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	205-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	100-SS	5.0	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SS	5.0	n/a	2/9/2017	2.5ND	No	43	n/a	n/a	100	n/a	n/a	0.001032	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	109-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	105-SS	5.0	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SS	5.0	n/a	2/8/2017	2.5ND	No	42	n/a	n/a	100	n/a	n/a	0.001072	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	110-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	115-SS	5.9	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	201A-SS	5.0	n/a	2/17/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	205-SS	5.0	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SS	39000	n/a	2/8/2017	10300	No	44	9.765	0.3135	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	104-SS	26000	n/a	2/9/2017	14400	No	43	9.614	0.215	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	109-SS	51000	n/a	2/7/2017	10100	No	43	9.917	0.3588	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	110-SS	120000	n/a	2/7/2017	78800	No	43	82542	14035	0	None	No	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	201A-SS	67000	n/a	2/17/2017	12100	No	44	29.57	4.257	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	205-SS	56000	n/a	2/7/2017	15600	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SS	1000	n/a	2/8/2017	824	No	43	6.74	0.0657	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SS	920	n/a	2/9/2017	798	No	42	605585	95920	0	None	x^2	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	109-SS	990	n/a	2/7/2017	810	No	41	28.59	1.11	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	**106-SS**	**950**	**n/a**	**2/8/2017**	**985**	**Yes**	**43**	**4.7e11**	**1.4e11**	**0**	**None**	**x^4**	**0.00008608**	**Param Intra 1 of 2**
Specific Conductance [Field] (umhos/cm)	201A-SS	960	n/a	2/17/2017	745	No	43	658168	104291	0	None	x^2	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	2/7/2017	900	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Sulfate (mg/L)	100-SS	92	n/a	2/8/2017	35	No	44	3.982	0.2064	2.273	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	104-SS	44	n/a	2/9/2017	14.7	[illegible]	44	21.03	8.821	2.273	None	No	0.00008608	[illegible] Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017 8:40 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	109-SS	89	n/a	2/7/2017	21.3	No	44	3.665	0.3201	2.273	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	106-SS	66	n/a	2/8/2017	46.2	No	44	3.905	0.1071	2.273	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	110-SS	100	n/a	2/7/2017	55.3	No	44	5061	1932	0	None	x^2	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	115-SS	73	n/a	2/17/2017	3.2	No	44	4.464	1.566	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	205-SS	73	n/a	2/7/2017	52.1	No	43	51.21	8.374	0	None	No	0.00008608	Param Intra 1 of 2
Thallium Total (ug/L)	100-SS	50	n/a	2/8/2017	1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SS	2.0	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	109-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	105-SS	2.0	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SS	2.0	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	110-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	115-SS	2.0	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	201A-SS	2.0	n/a	2/17/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	205-SS	2.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SS	570	n/a	2/8/2017	419	No	43	226209	39208	0	None	x^2	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	2/9/2017	406	No	42	6.04	0.07178	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	109-SS	560	n/a	2/7/2017	393	No	44	6.125	0.08127	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	106-SS	540	n/a	2/8/2017	529	No	43	21.47	0.6873	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	110-SS	1400	n/a	2/7/2017	1100	No	44	1139	112.7	0	None	No	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	201A-SS	560	n/a	2/17/2017	455	No	42	6.164	0.06169	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	205-SS	580	n/a	2/7/2017	491	No	43	6.216	0.05828	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SS	31	n/a	2/8/2017	0.5ND	No	44	n/a	n/a	72.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	104-SS	28	n/a	2/9/2017	2.4	No	44	n/a	n/a	45.45	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	109-SS	31	n/a	2/7/2017	0.5ND	No	44	n/a	n/a	52.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	105-SS	29	n/a	2/9/2017	2.7	No	44	n/a	n/a	20.45	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	110-SS	32	n/a	2/7/2017	18.6	No	42	3.603	0.7866	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	115-SS	55	n/a	2/17/2017	10.4	No	44	1.853	0.7539	20.45	Kaplan-Meier	x^(1/3)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	201A-SS	33	n/a	2/17/2017	0.5ND	No	44	n/a	n/a	52.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	100-SS	10	n/a	2/8/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SS	10	n/a	2/9/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	109-SS	10	n/a	2/7/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	105-SS	10	n/a	2/9/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SS	10	n/a	2/8/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	110-SS	10	n/a	2/7/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	115-SS	14	n/a	2/17/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	201A-SS	10	n/a	2/17/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	205-SS	110	n/a	2/7/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SS	230	n/a	2/8/2017	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	2/9/2017	10ND	No	40	n/a	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	109-SS	190	n/a	2/7/2017	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)	105-SS	43	n/a	2/9/2017	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	2/8/2017	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)	110-SS	87	n/a	2/7/2017	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)	115-SS	68	n/a	2/17/2017	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	2/17/2017	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	2/7/2017	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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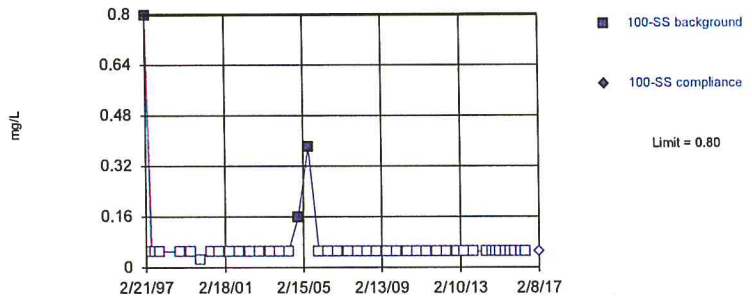
Hollow symbols indicate censored values.

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 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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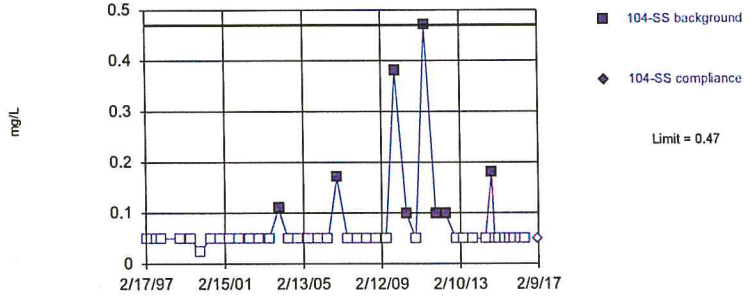
Hollow symbols indicate censored values.

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 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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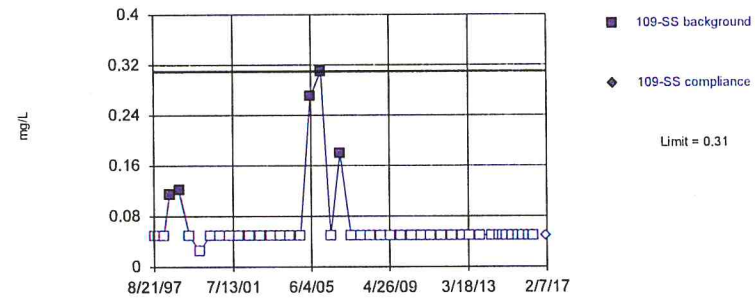
Hollow symbols indicate censored values.

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 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Client: RSI Data: Bridgeton LF

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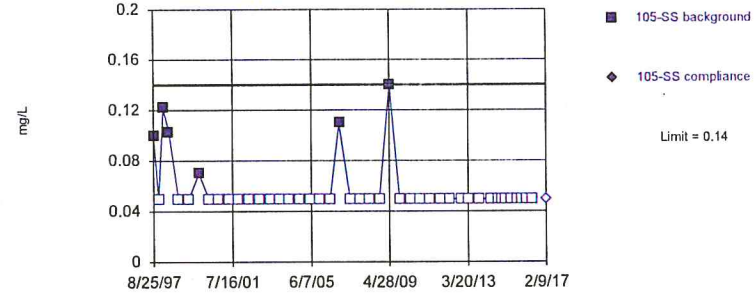
Hollow symbols indicate censored values.

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 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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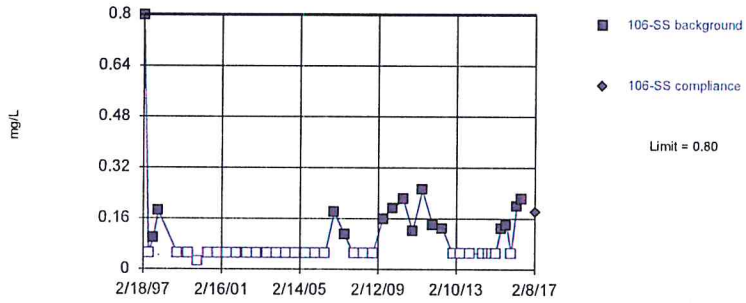
Hollow symbols indicate censored values.

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 44 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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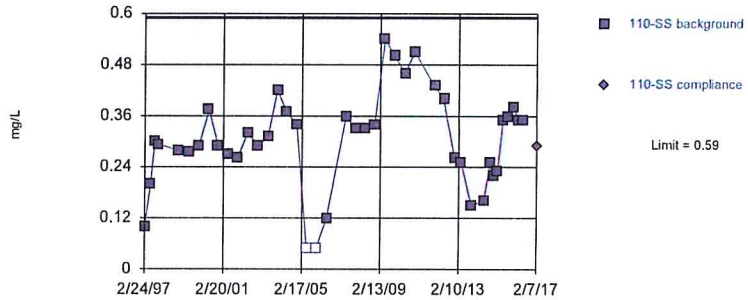
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3026, Std. Dev.=0.1123, n=42, 4.762% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9692, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 0.77 (11/9/2006); 1.8 (5/10/2011).

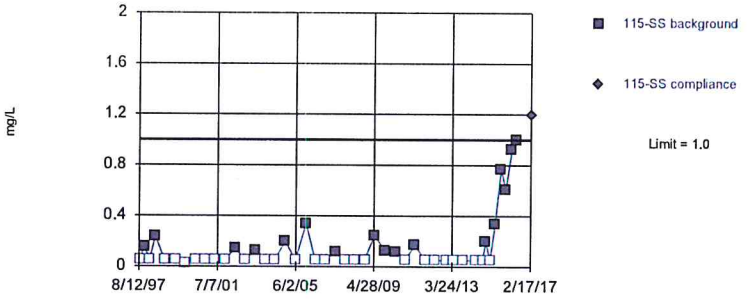
Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. 61.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

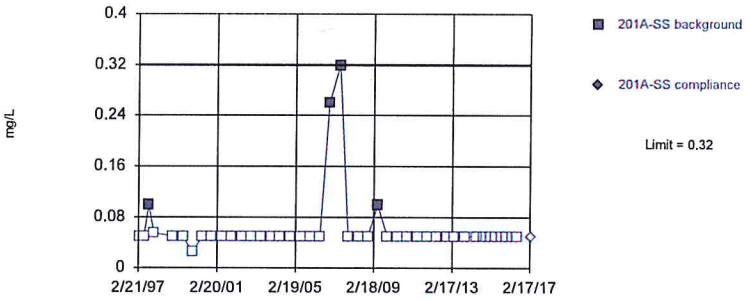
Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

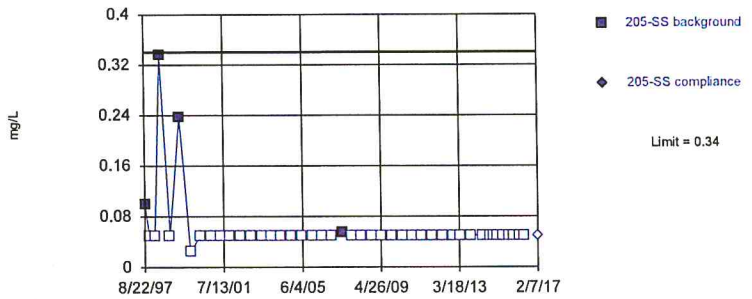
Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

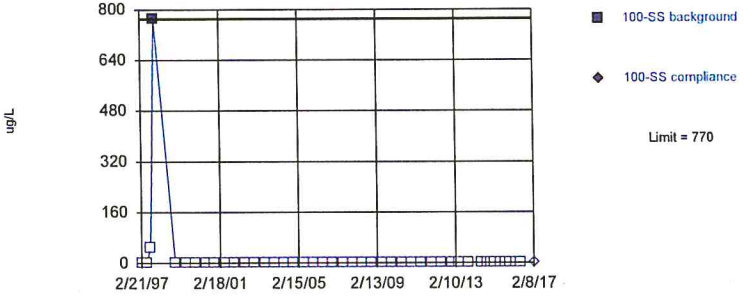
Constituent: Ammonia as N Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

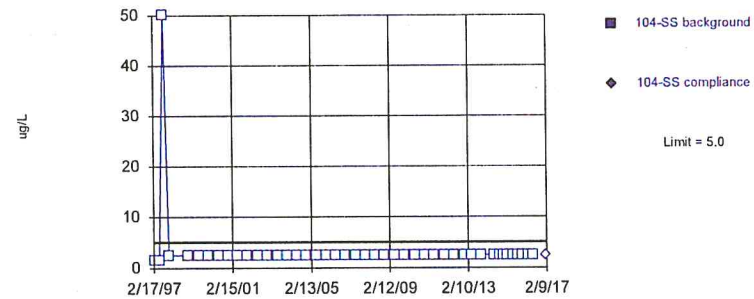
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

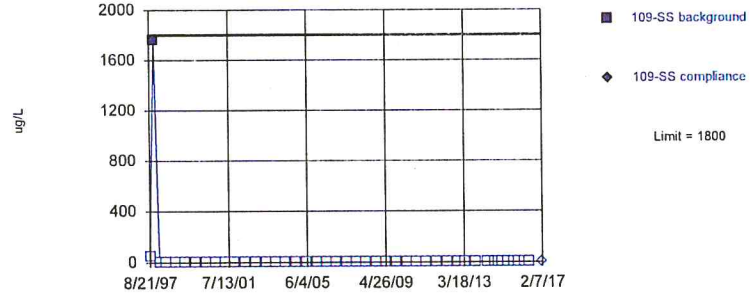
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

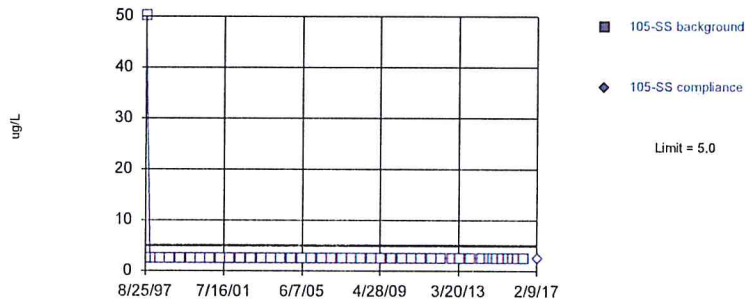
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

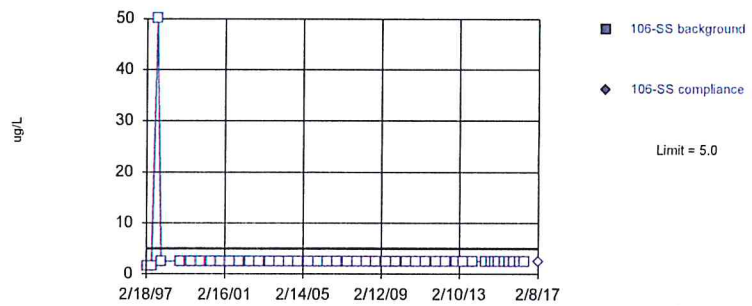
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

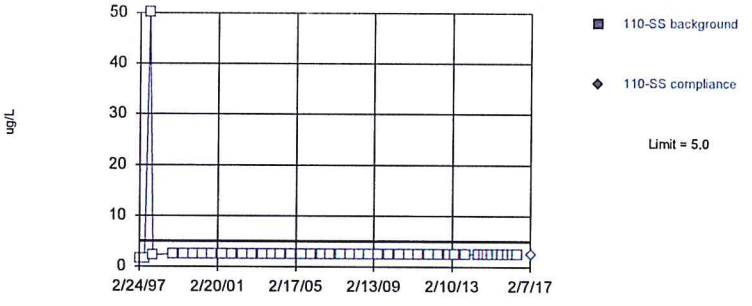
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

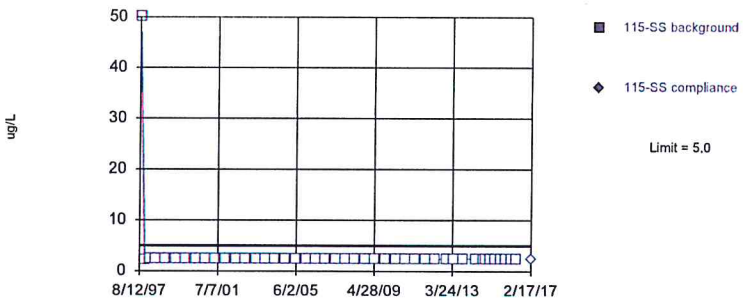
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

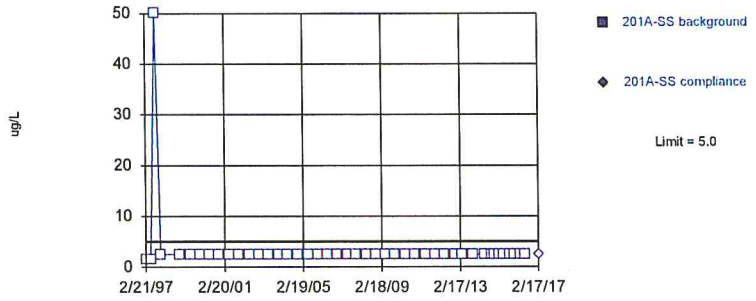
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

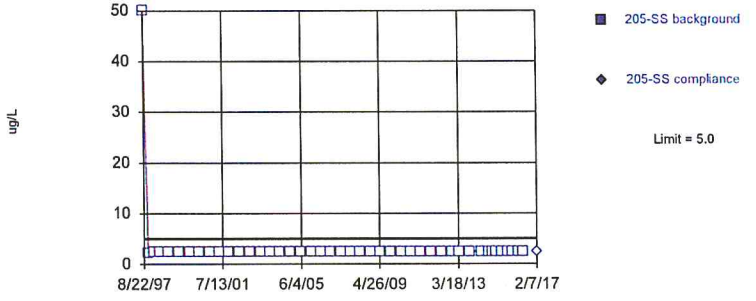
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

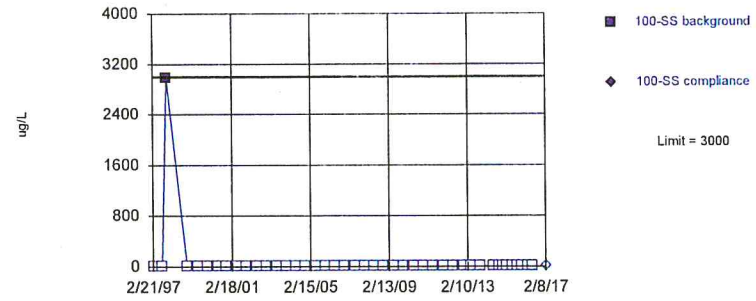
Constituent: Antimony Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

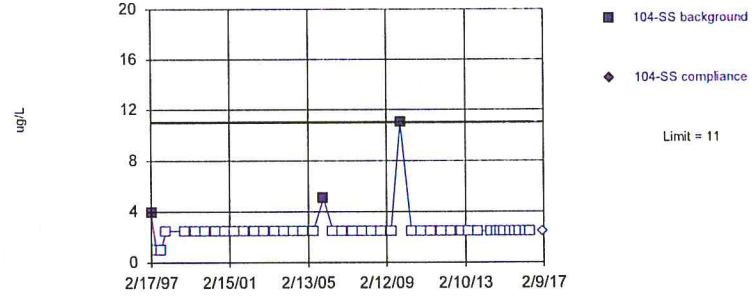
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

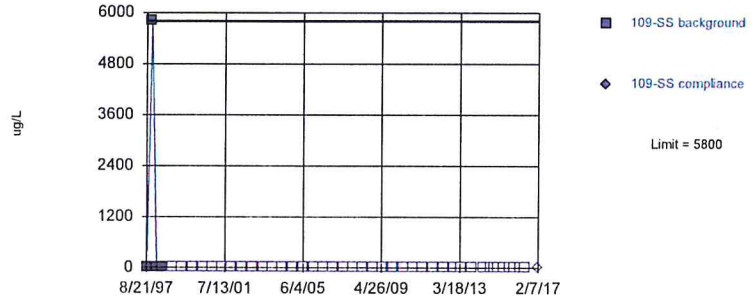
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

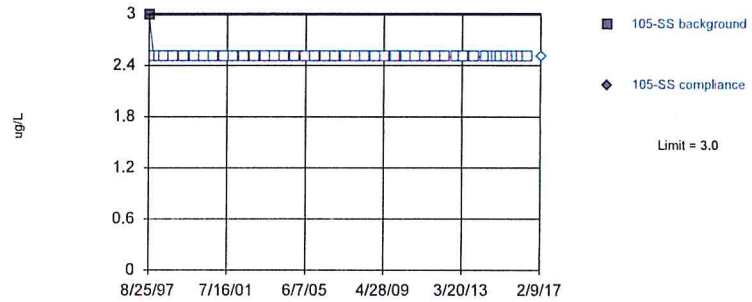
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

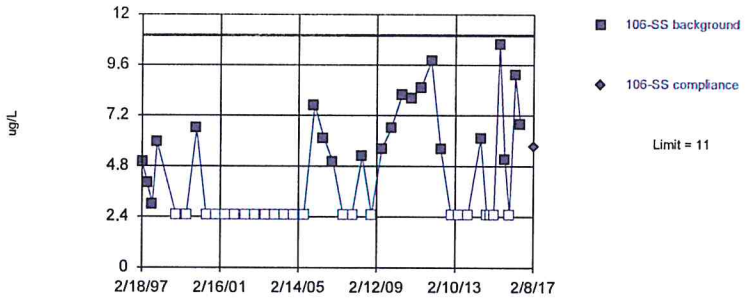
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

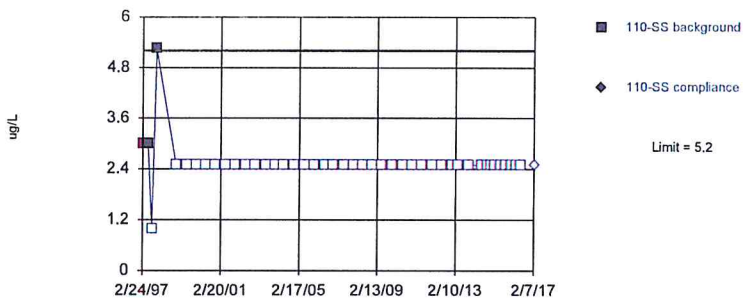
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

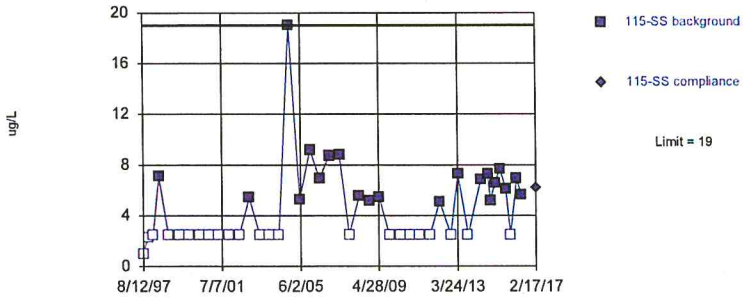
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

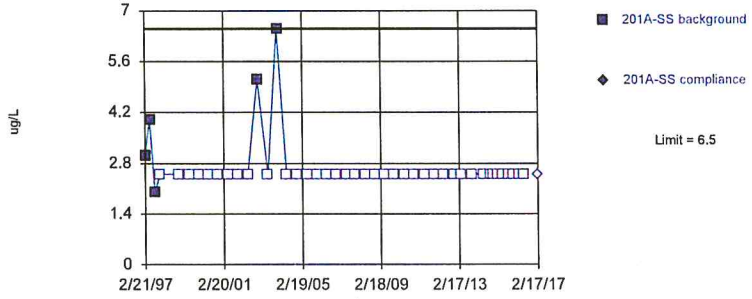
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

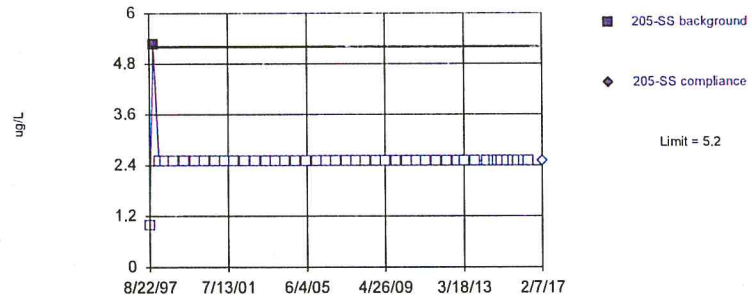
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

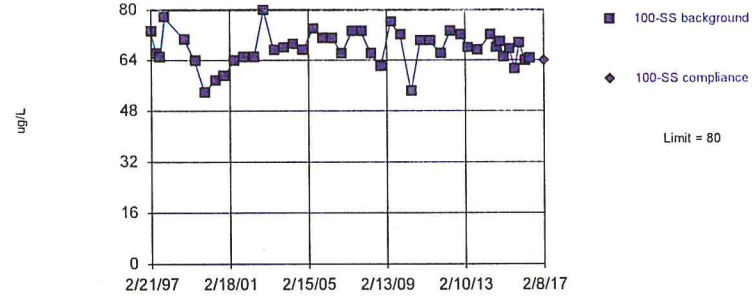
Constituent: Arsenic Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



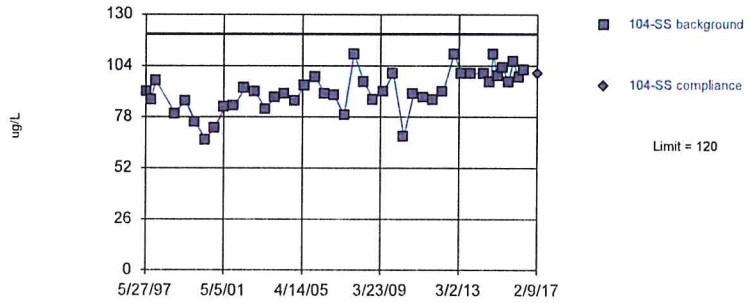
Background Data Summary (based on cube transformation): Mean=315454, Std. Dev.=74186, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9817, critical = 0.924. Kappa = 2.591 (c=34, w=9. 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 8:29 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8455, Std. Dev.=1855, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 3/14/2017 8:29 AM

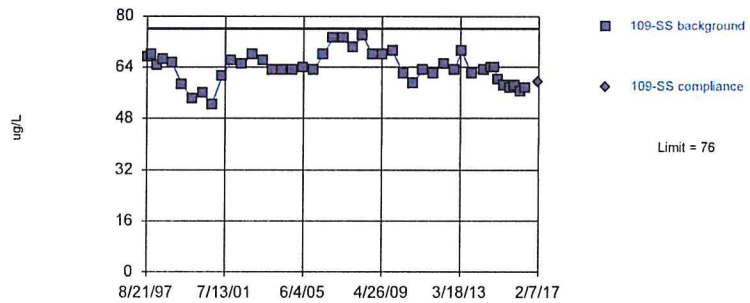
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=63.67, Std. Dev.=4.952, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9784, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 8:29 AM

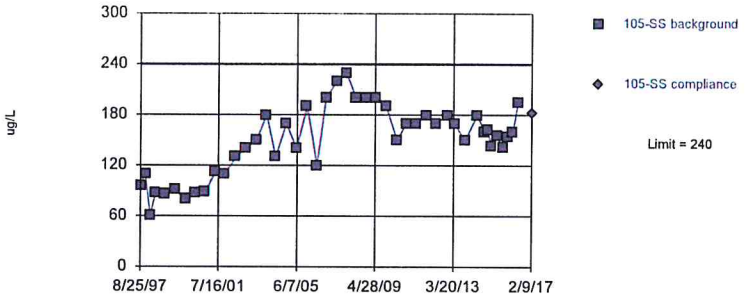
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=24115, Std. Dev.=12096, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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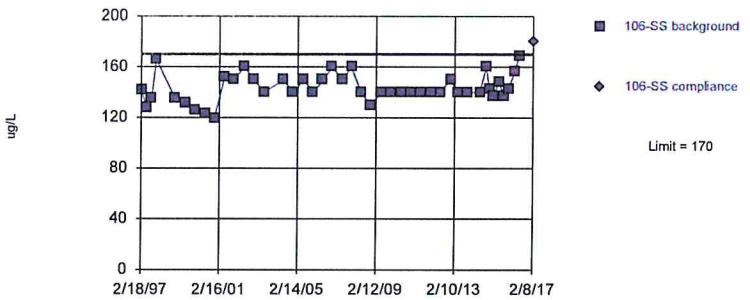
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.964, Std. Dev.=0.07623, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 78 (11/20/2003).

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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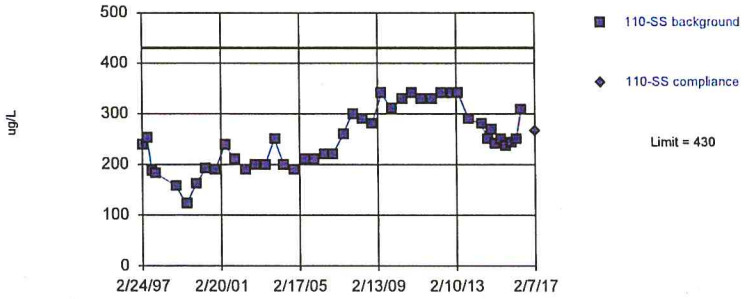
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=6.255, Std. Dev.=0.4994, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9512, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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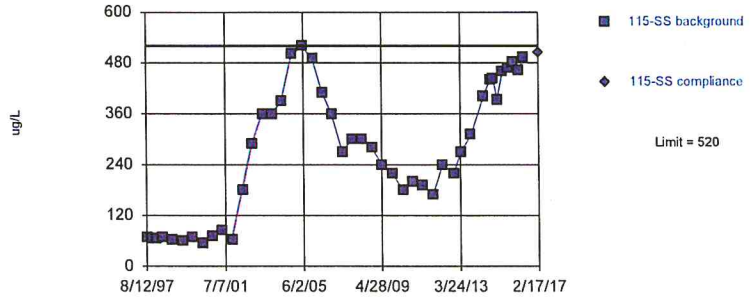
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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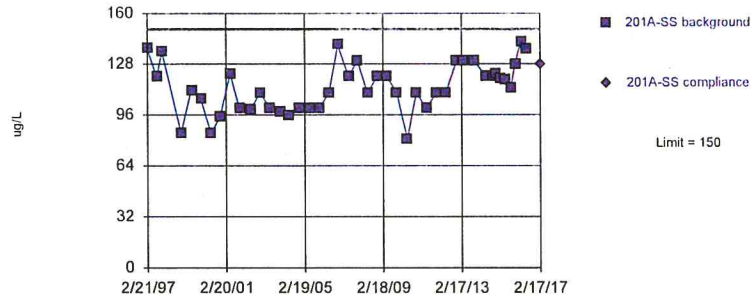
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=113.5, Std. Dev.=15.41, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 206 (5/27/1997).

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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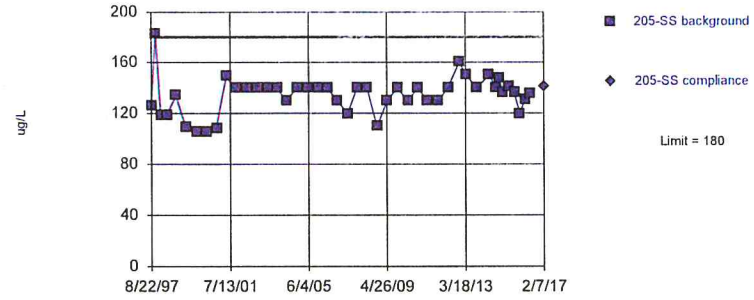
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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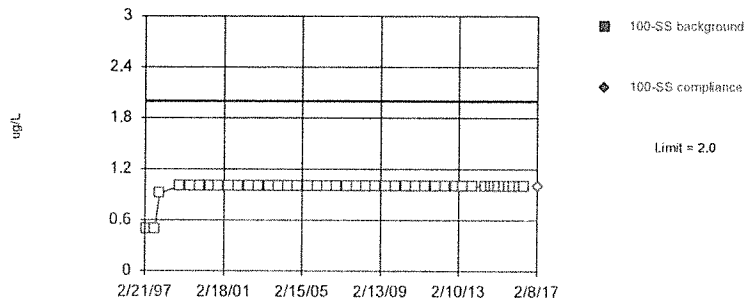
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

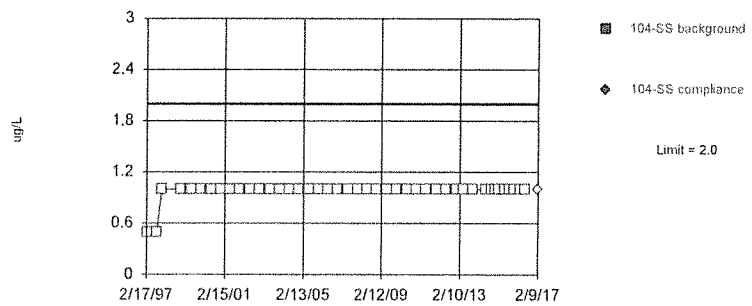
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.38 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

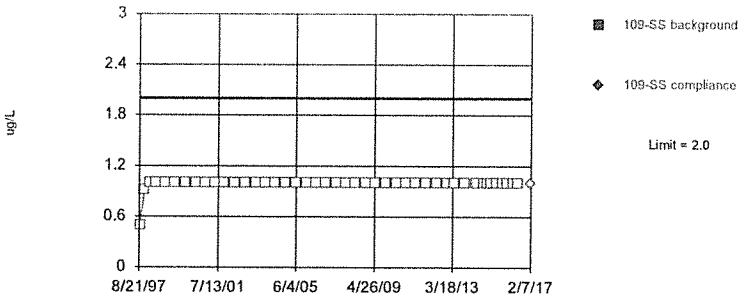
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.38 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

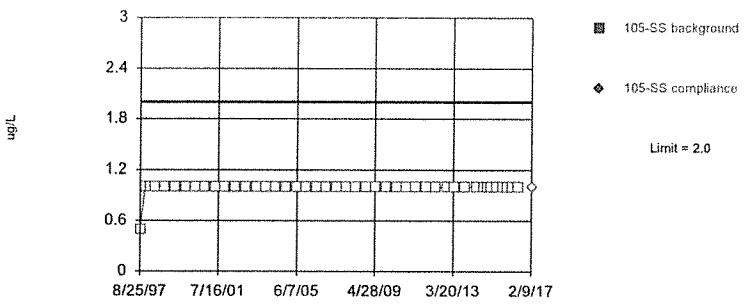
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.38 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

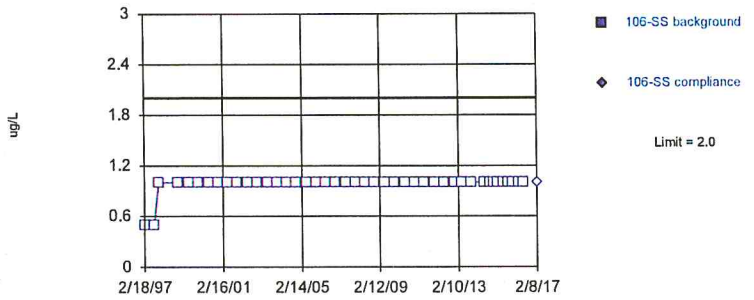
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

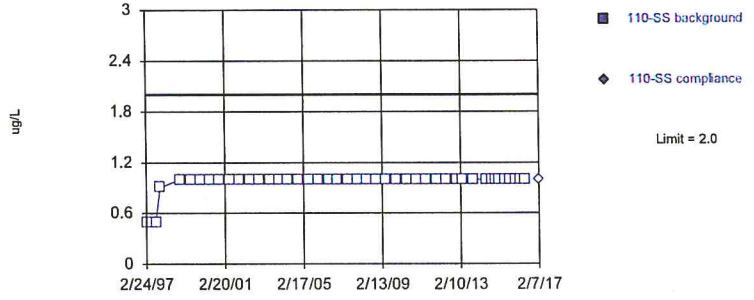
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

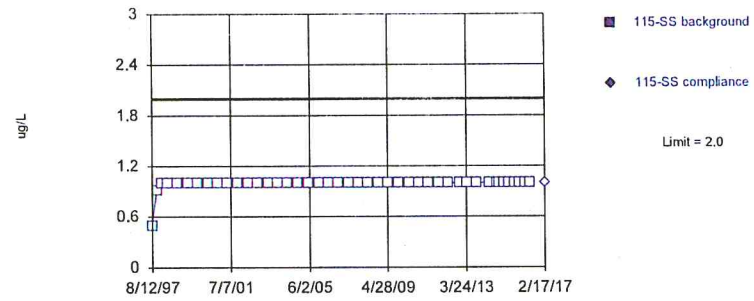
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

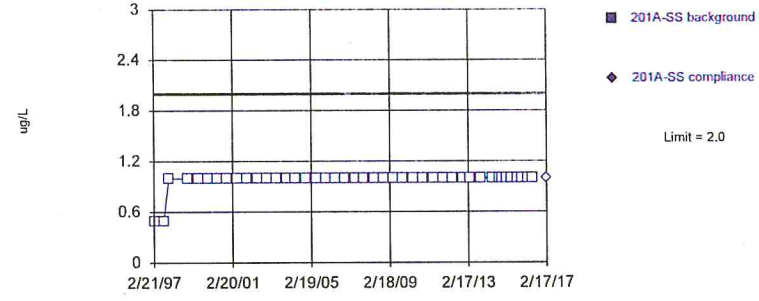
Bridgeton Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM

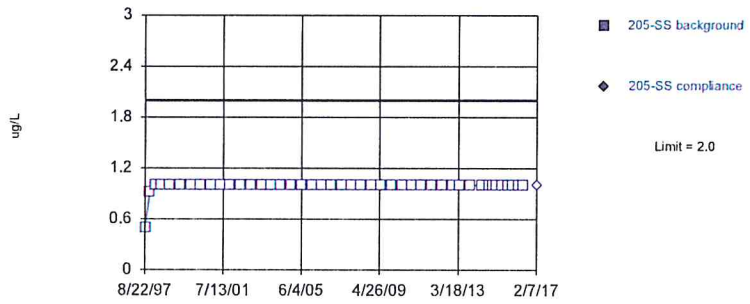
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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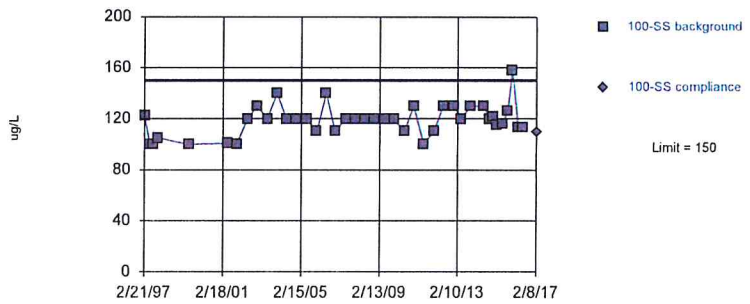
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.772, Std. Dev.=0.1024, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9303, critical = 0.919. Kappa = 2.616 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Four background outliers were removed: <100 (11/12/1998); <100 (11/19/1999); <100 (5/23/2000); <100 (11/13/2000).

Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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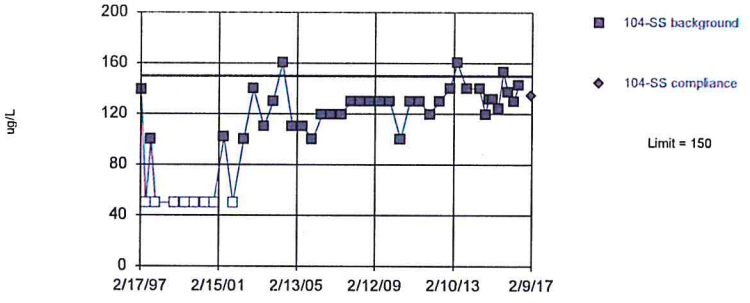
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=1440036, Std. Dev.=777596, n=44, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9246, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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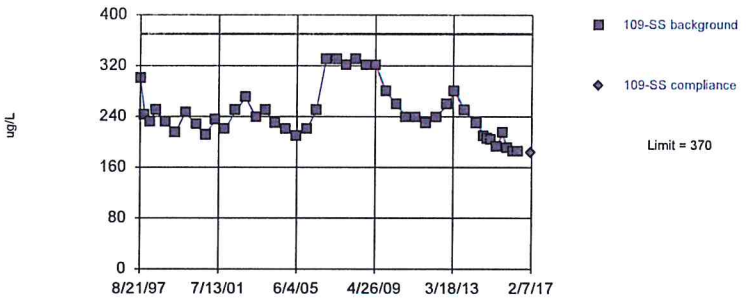
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.49, Std. Dev.=0.1585, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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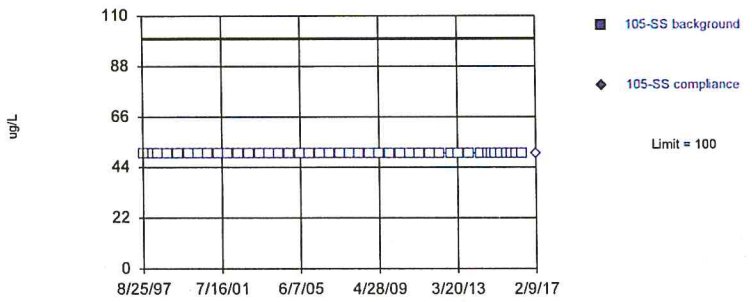
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

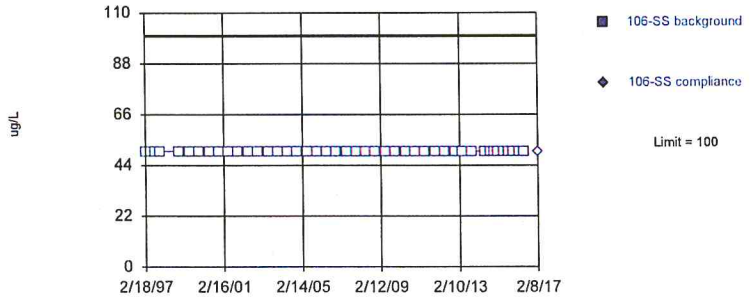
Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

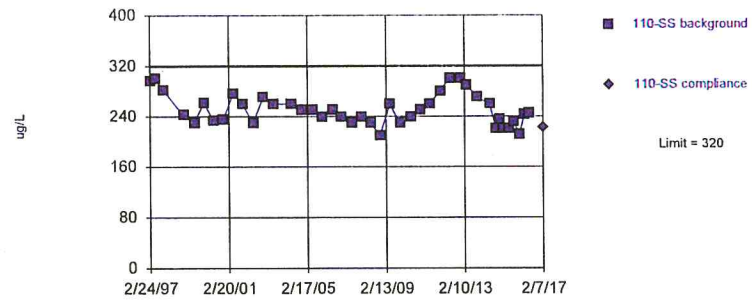
Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.521, Std. Dev.=0.0964, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: <100 (8/22/1997); 400 (11/20/2003).

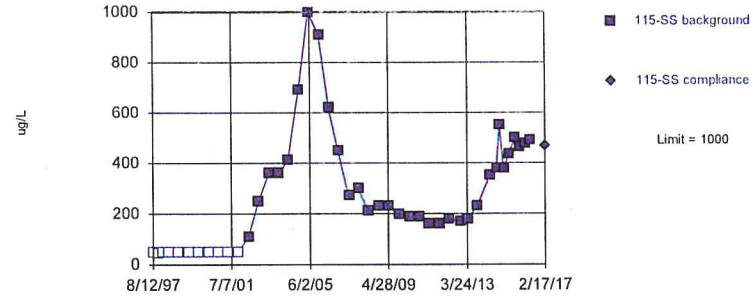
Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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) (after Kaplan-Meier Adjustment): Mean=15.64, Std. Dev.=6.144, n=44, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9267, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

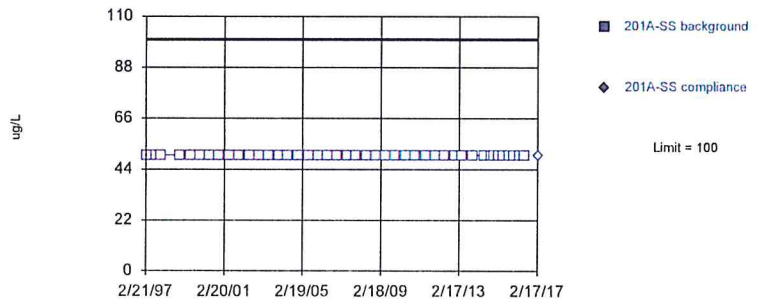
Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM

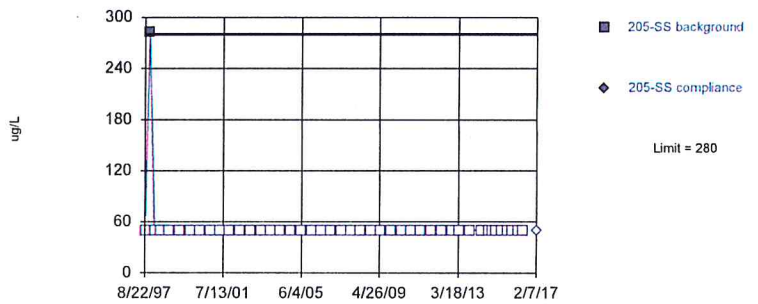
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 8:30 AM

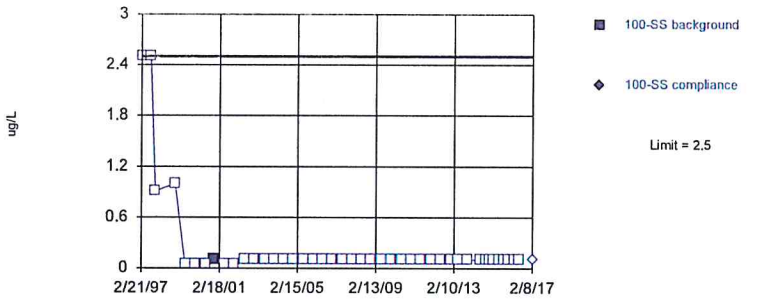
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM

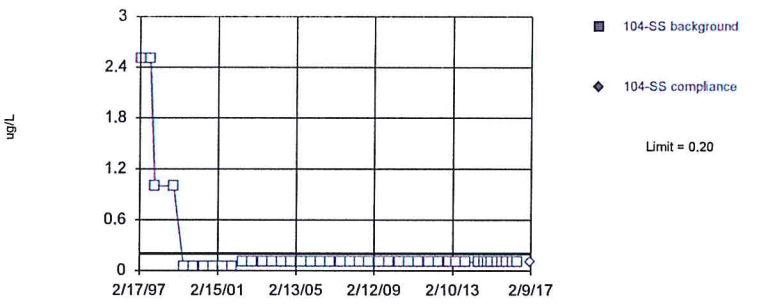
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM

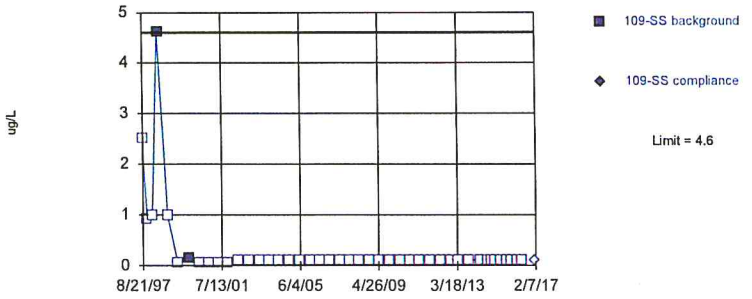
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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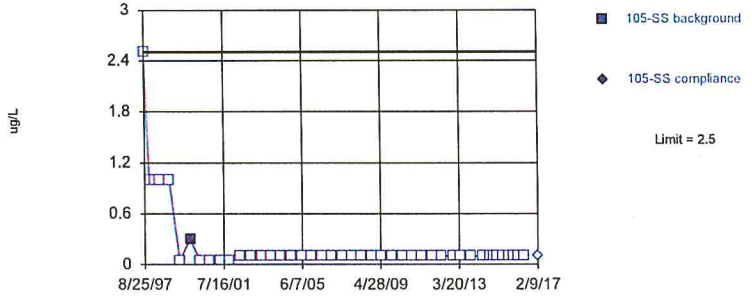
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

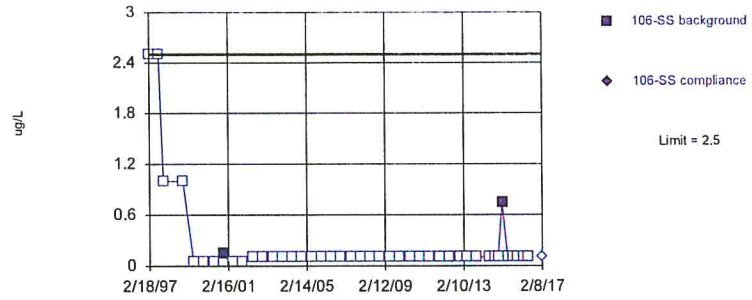
Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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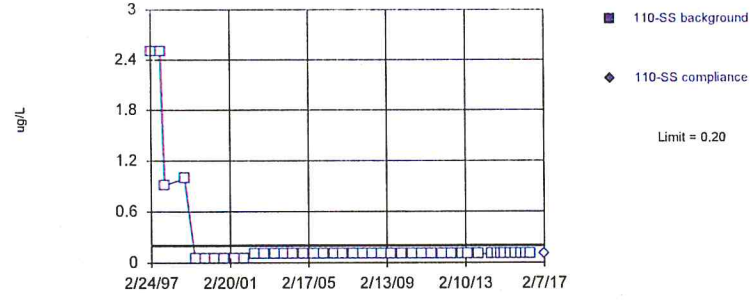
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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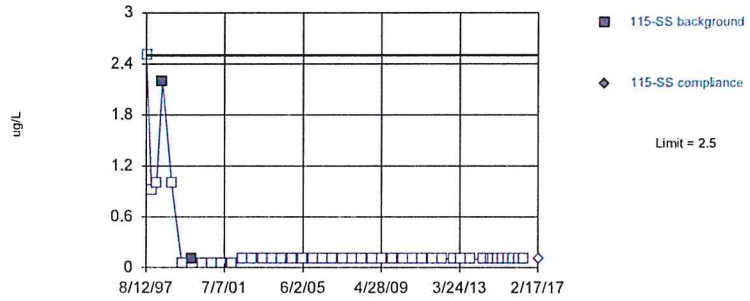
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

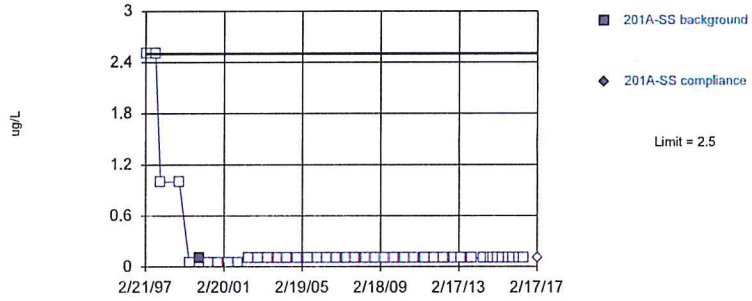
Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

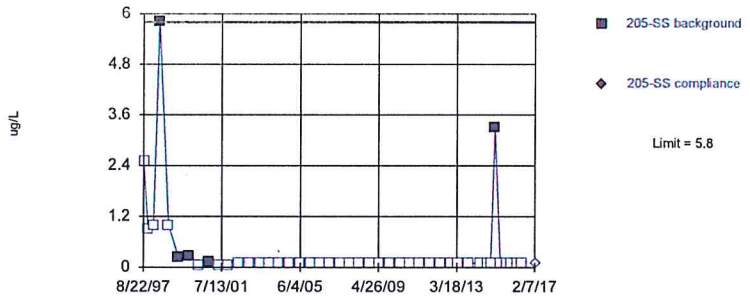
Constituent: Cadmium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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Bridgeton LF Client: RSI Data: Bridgeton LF

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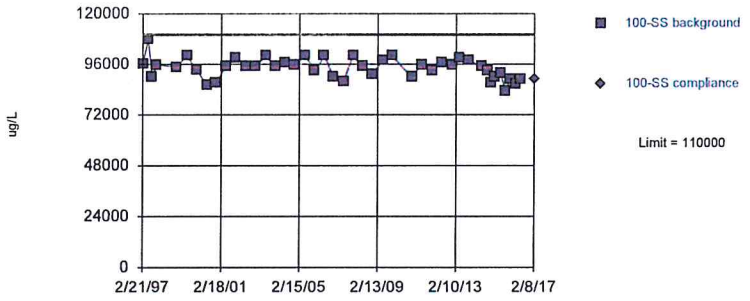
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=45.5, Std. Dev.=0.7891, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 76000 (5/19/2010).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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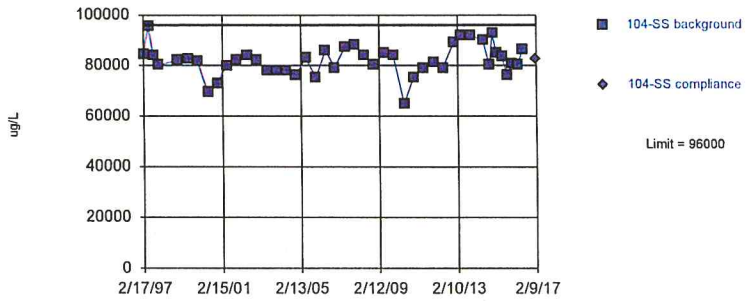
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=6.8e9, Std. Dev.=9.8e8, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9828, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

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Bridgeton LF Client: RSI Data: Bridgeton LF

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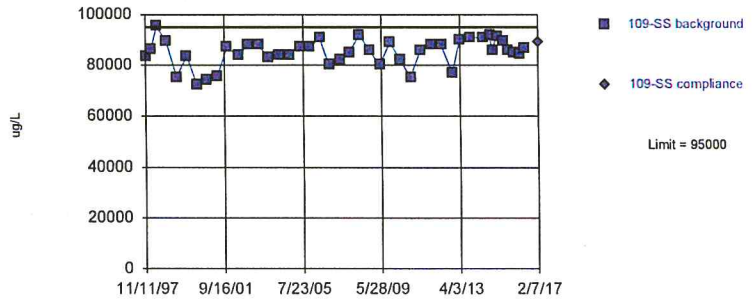
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=4.0e29, Std. Dev.=1.4e29, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9763, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 174000 (8/21/1997).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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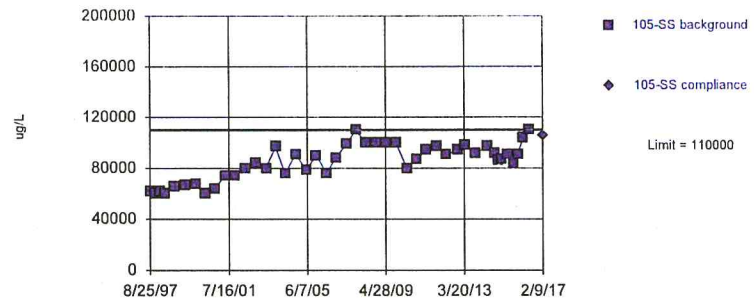
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.6e14, Std. Dev.=3.0e14, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9486, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

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Client: RSI Data: Bridgeton LF

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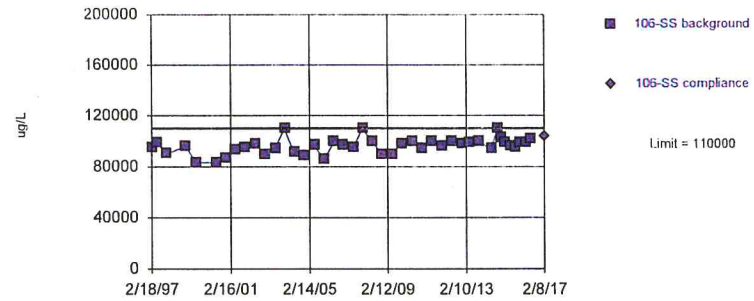
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=45.82, Std. Dev.=0.9745, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 9000 (11/19/1999).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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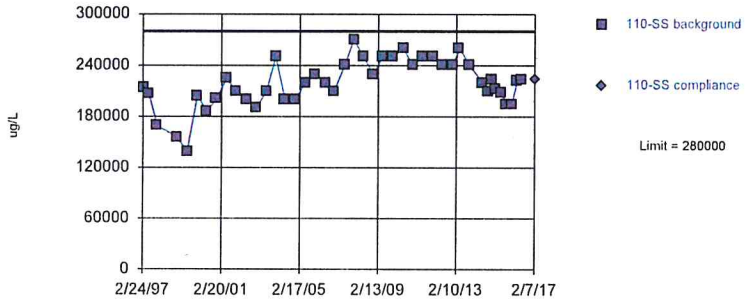
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.9e10, Std. Dev.=1.2e10, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9751, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 91000 (8/22/1997).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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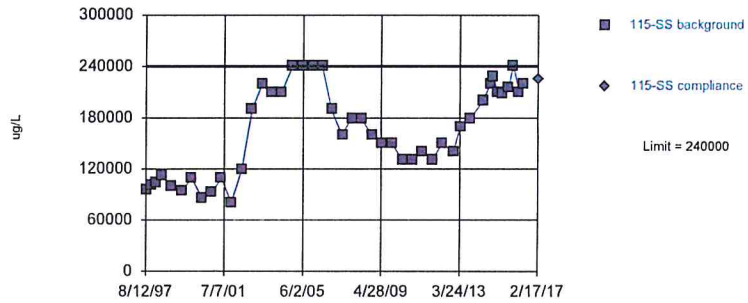
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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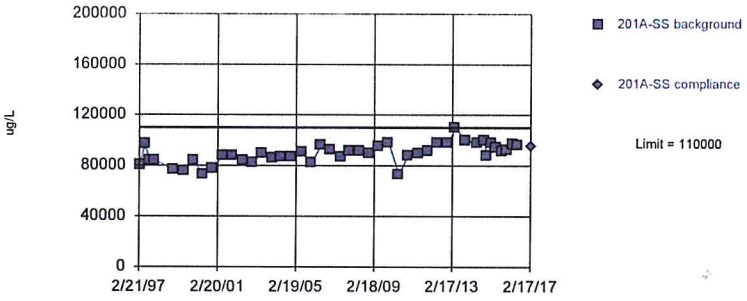
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8.1e9, Std. Dev.=1.4e9, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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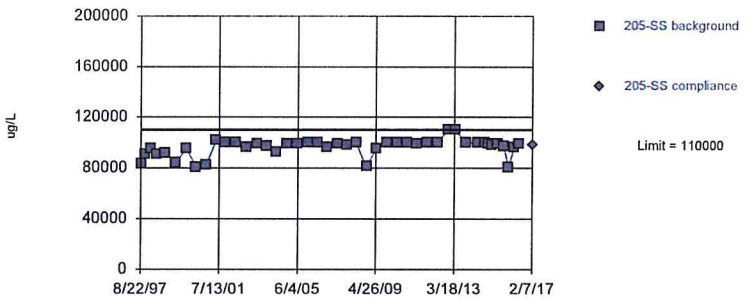
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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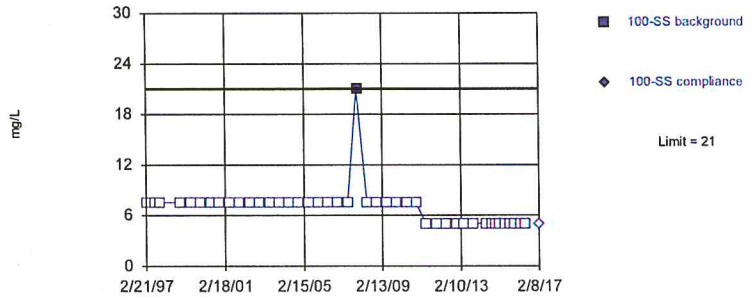
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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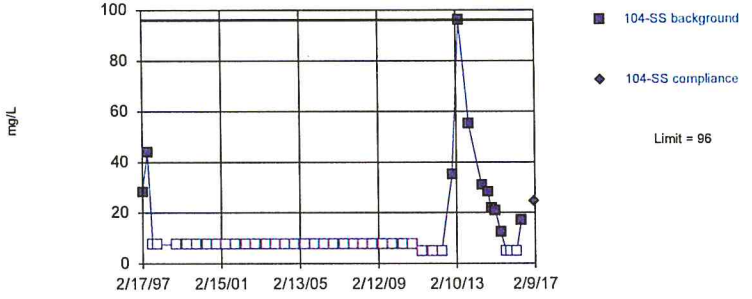
Hollow symbols indicate censored values.

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 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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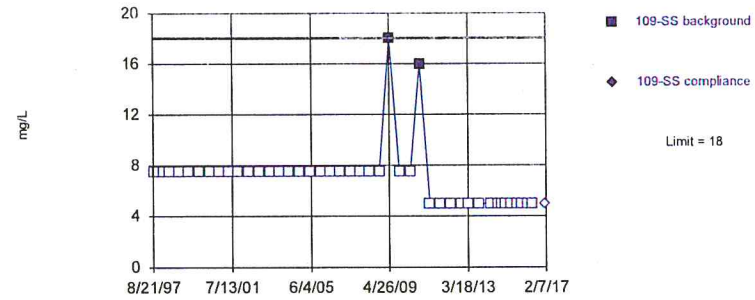
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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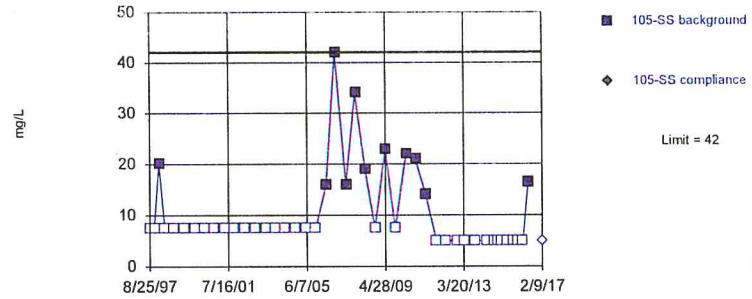
Hollow symbols indicate censored values.

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 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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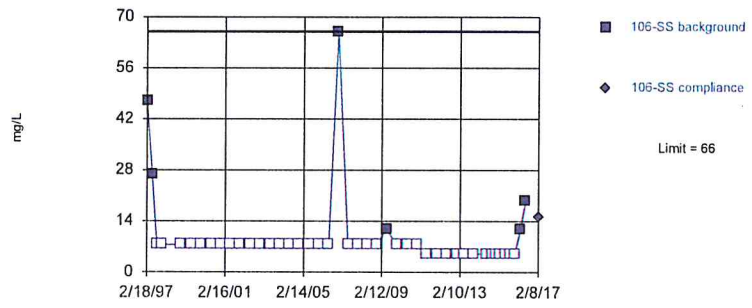
Hollow symbols indicate censored values.

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 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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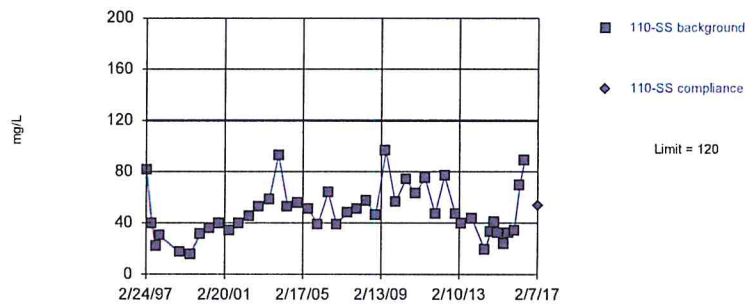
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=3.575, Std. Dev.=0.5073, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9767, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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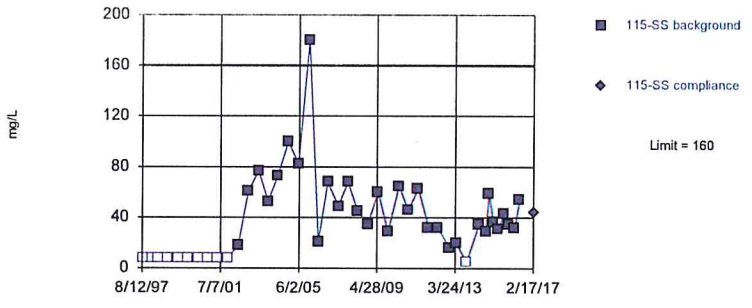
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=3.109, Std. Dev.=0.8796, n=44, 27.27% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9254, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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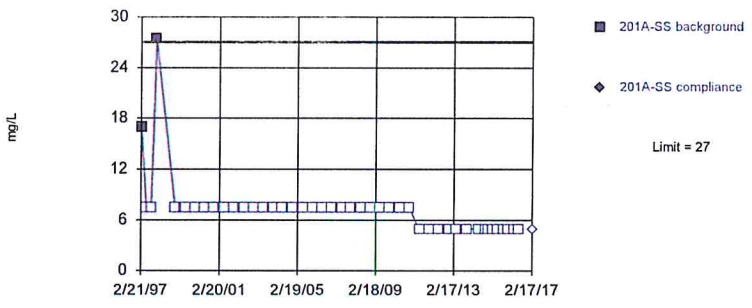
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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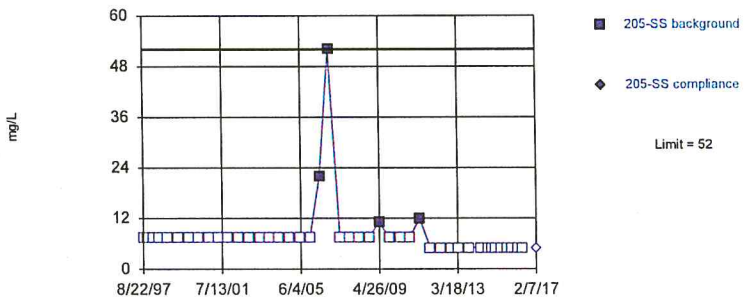
Hollow symbols indicate censored values.

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 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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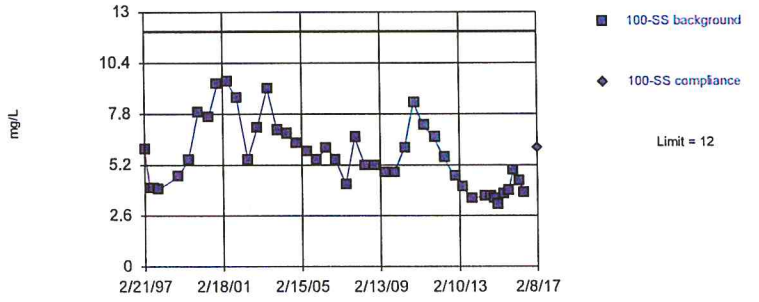
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.682, Std. Dev.=0.3006, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9542, critical = 0.924. Kappa = 2.591 (c=3, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

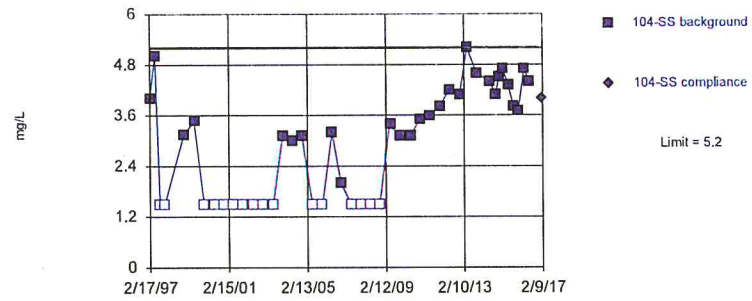
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

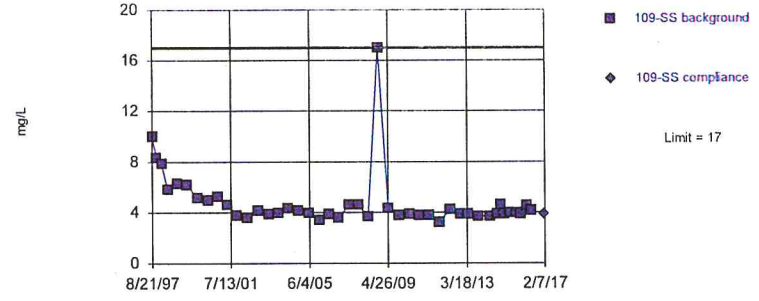
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

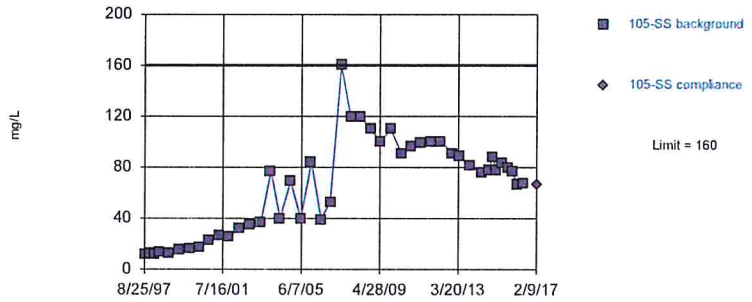
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=64.83, Std. Dev.=37.34, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9286, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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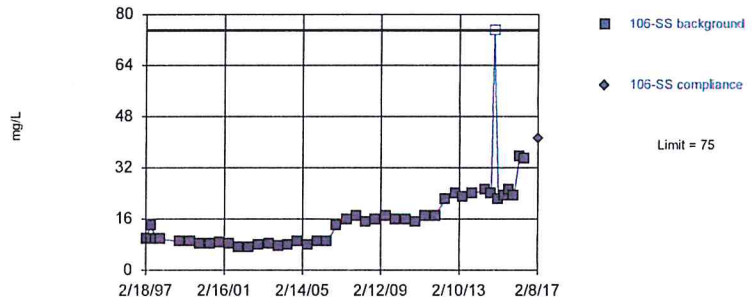
Hollow symbols indicate censored values.

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 44 background values. 2.273% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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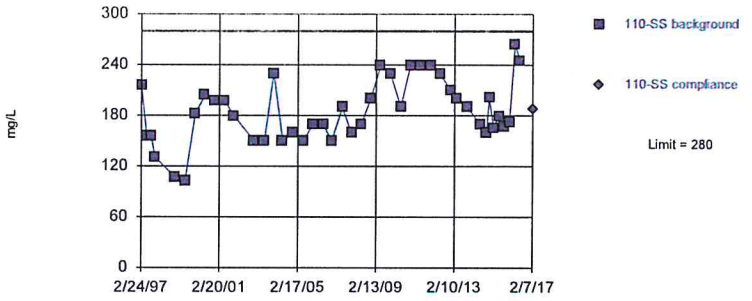
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=185.2, Std. Dev.=37.26, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9656, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <3 (5/21/2002).

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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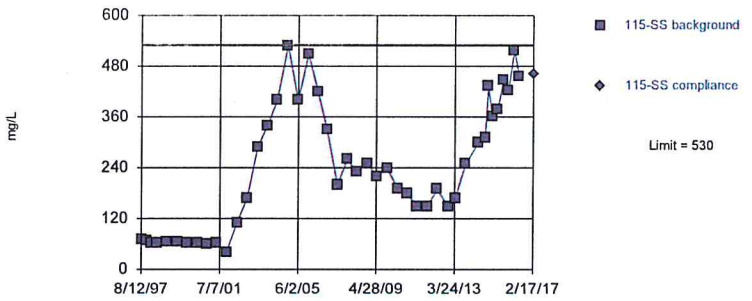
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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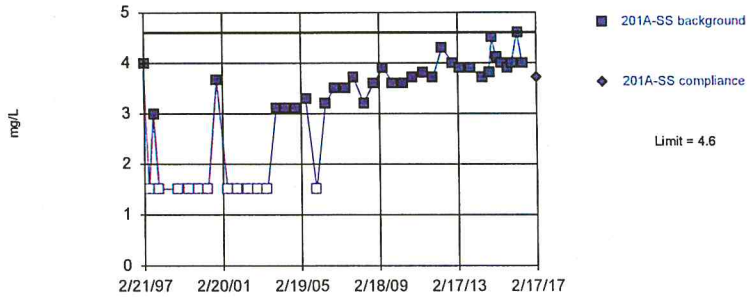
Hollow symbols indicate censored values.

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 44 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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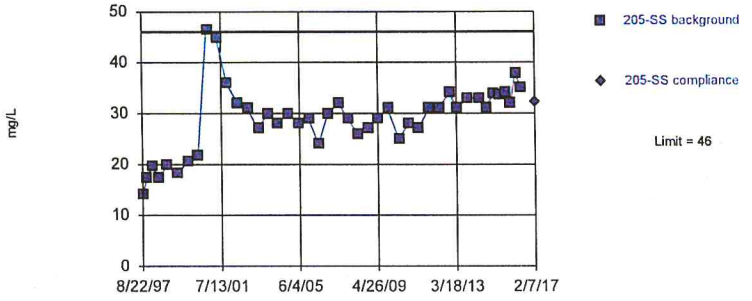
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=29.05, Std. Dev.=6.663, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed. <150 (11/20/2014).

Constituent: Chloride Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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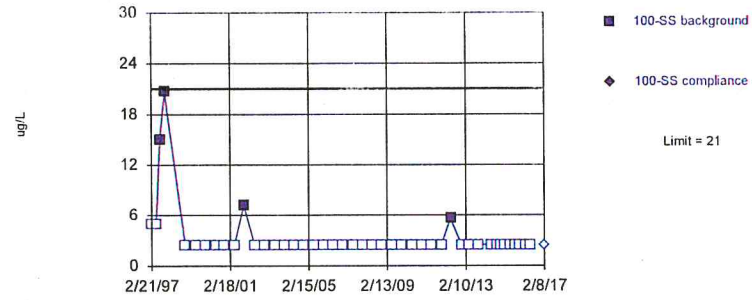
Hollow symbols indicate censored values.

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 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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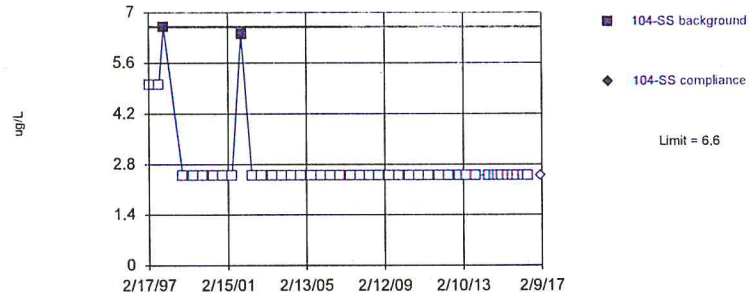
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

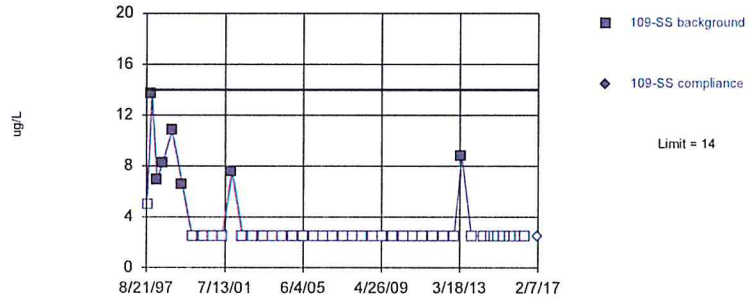
Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 84.09% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

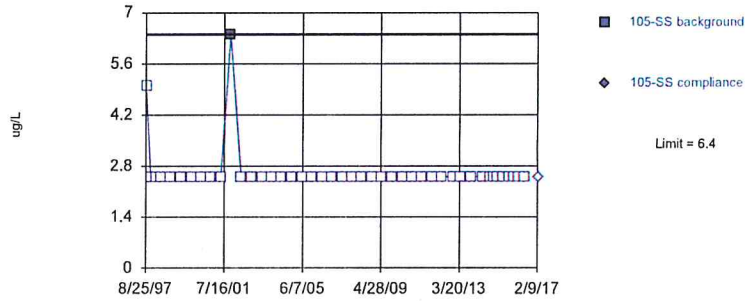
Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

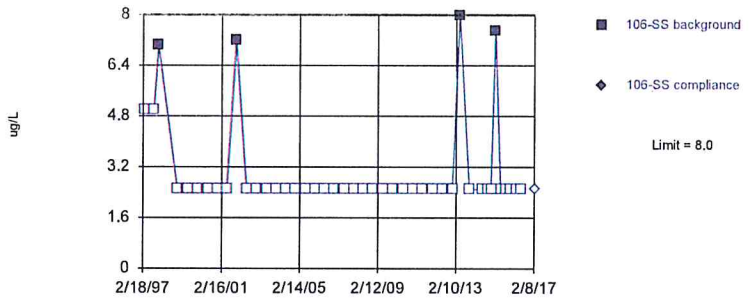
Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

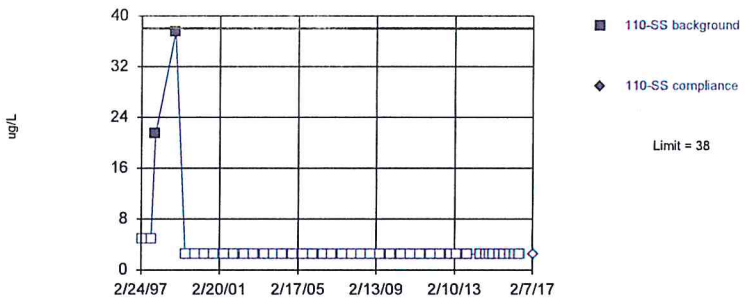
Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

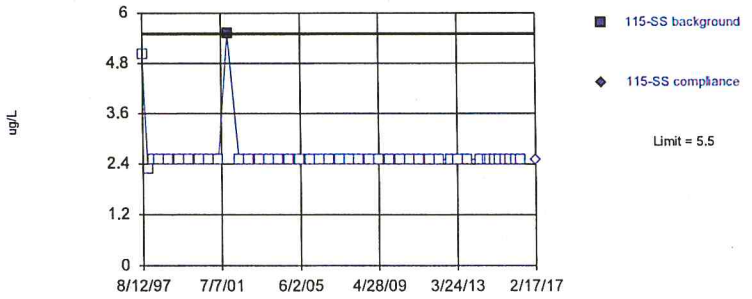
Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM

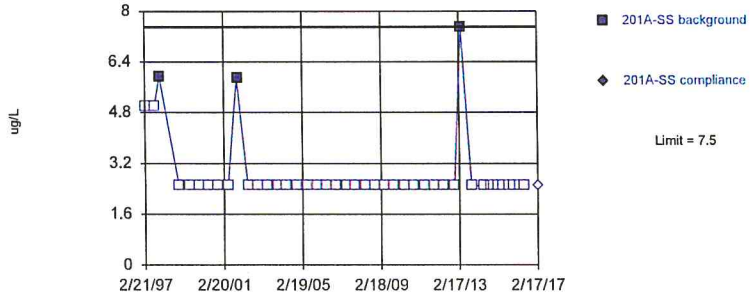
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM

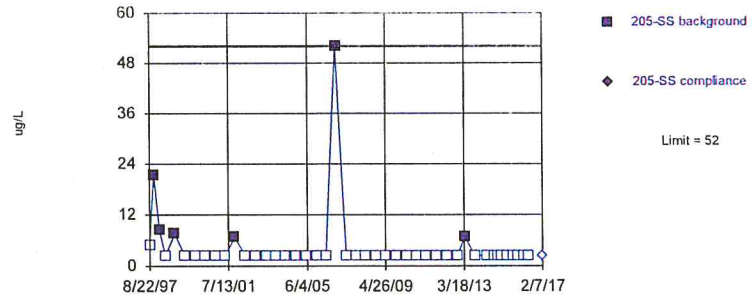
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 3/14/2017 8:30 AM

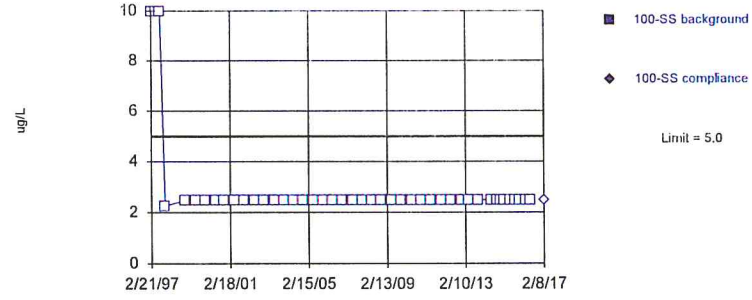
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM

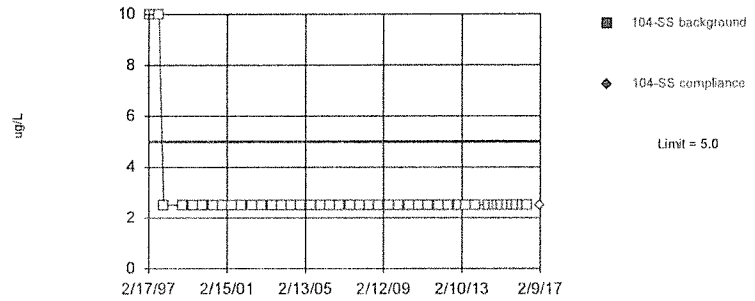
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

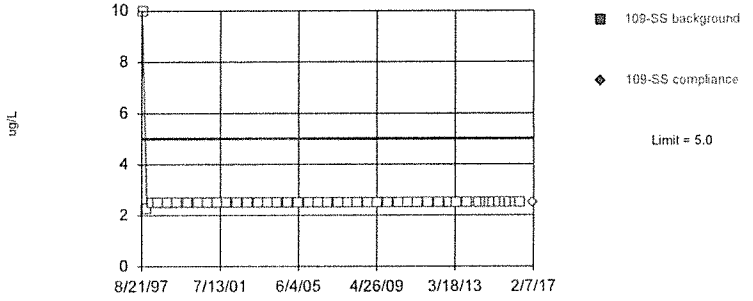
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

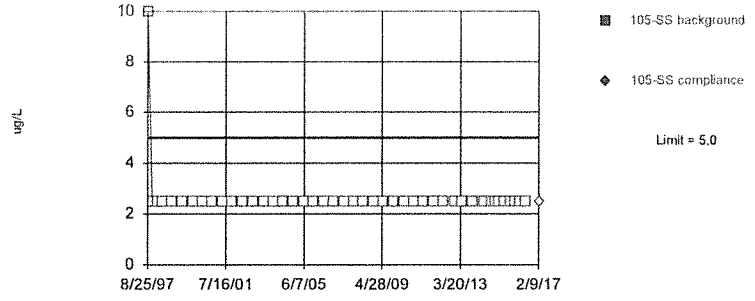
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

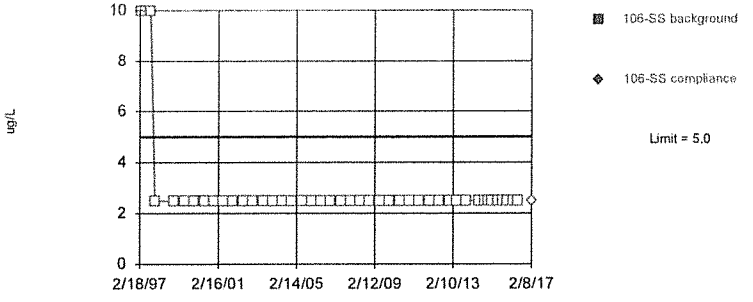
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

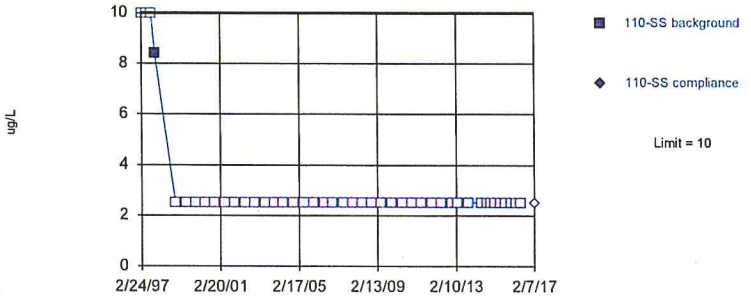
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

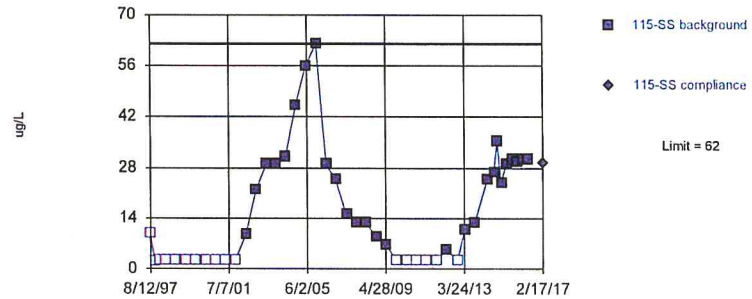
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 38.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

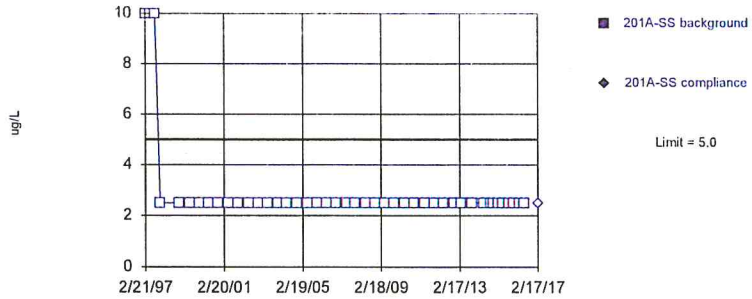
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

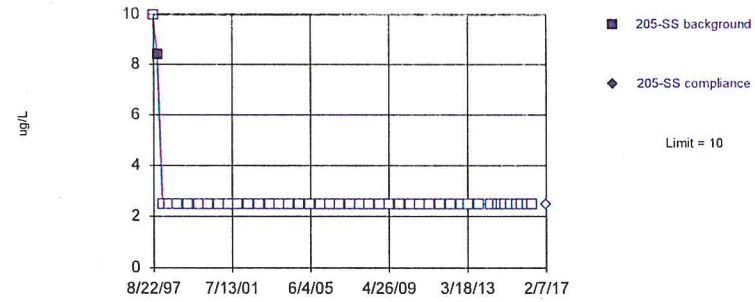
Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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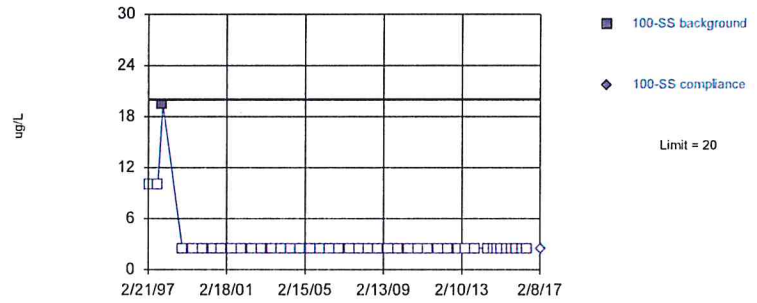
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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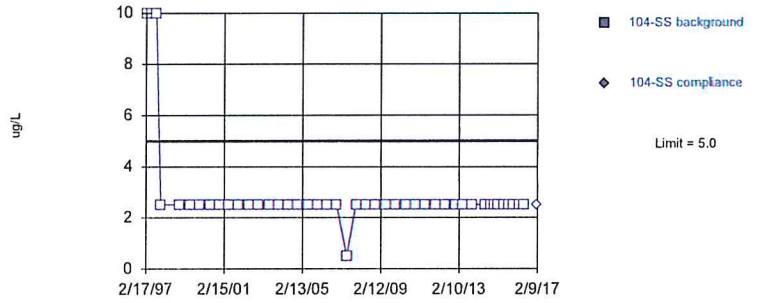
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

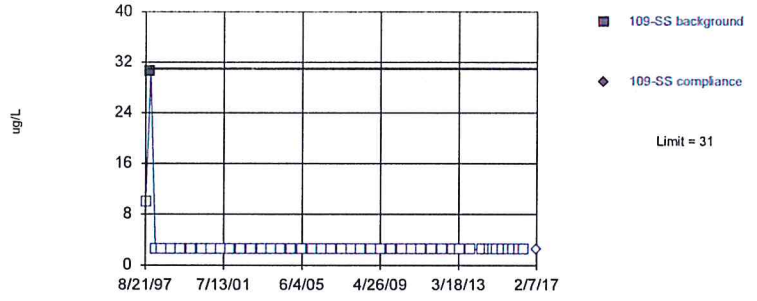
Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

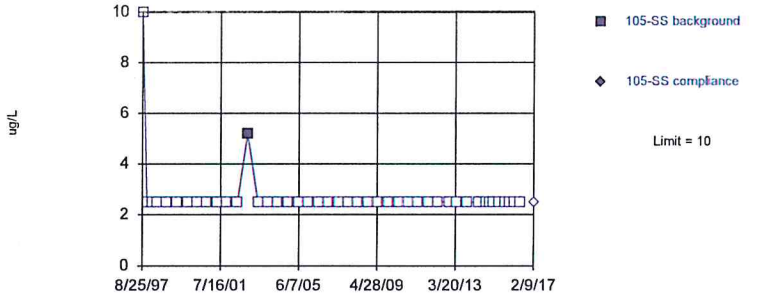
Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

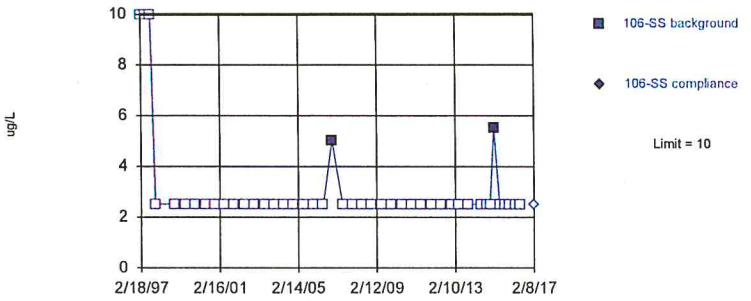
Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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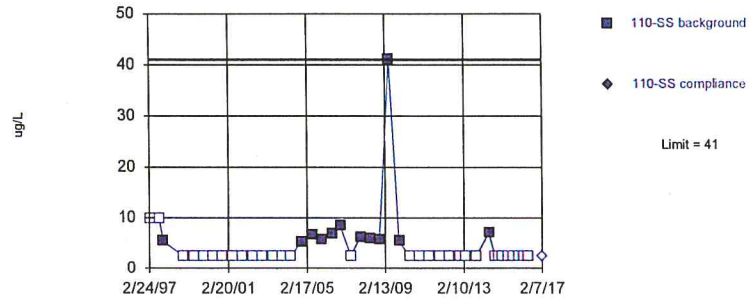
Hollow symbols indicate censored values.

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 44 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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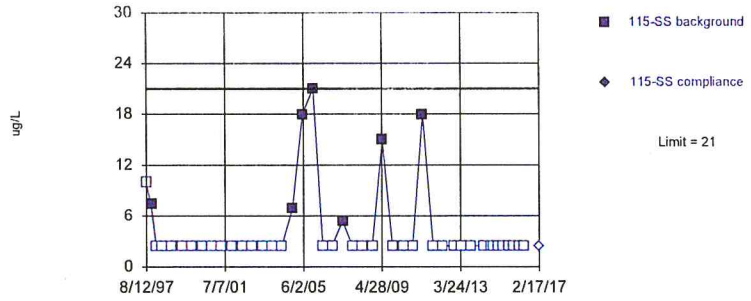
Hollow symbols indicate censored values.

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 44 background values. 84.09% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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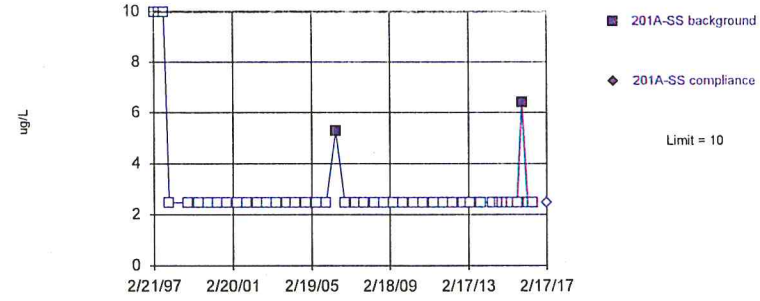
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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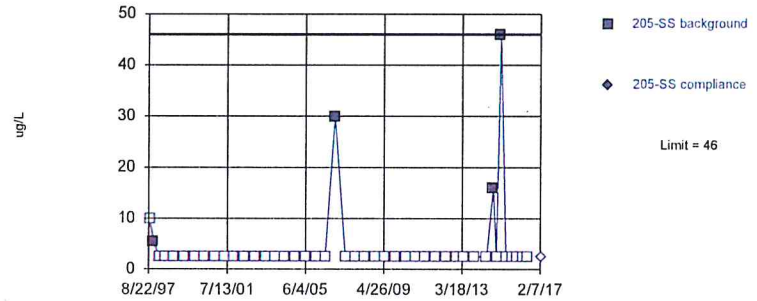
Hollow symbols indicate censored values.

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 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.09396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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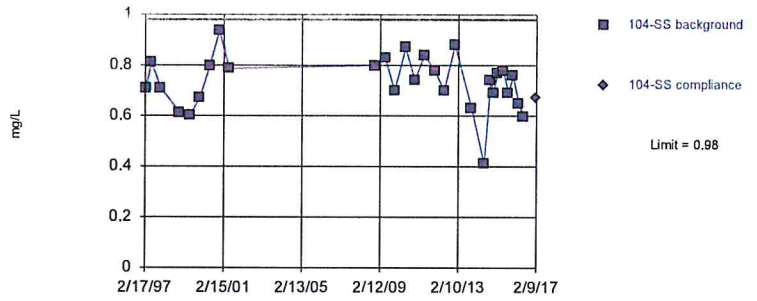
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.547, Std. Dev.=0.1494, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.989, critical = 0.896. Kappa = 2.759 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: <0.25 (8/28/1997); 0.3 (4/11/2013).

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on square transformation): Mean=0.4699, Std. Dev.=0.1665, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9757, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <0.25 (5/18/1999).

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

Prediction Limit

Intrawell Parametric

Background Data Summary (based on cube transformation): Mean=10, Std. Dev.=2.973, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9431, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

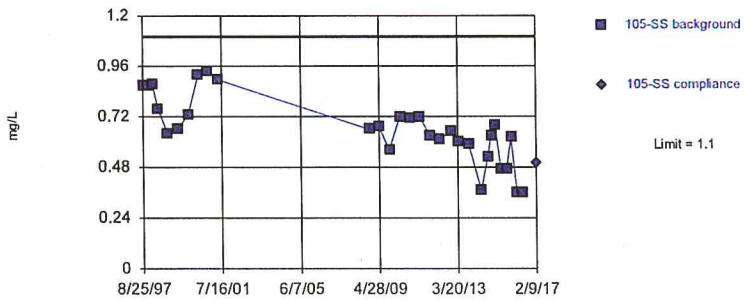
Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.6586, Std. Dev.=0.1591, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9488, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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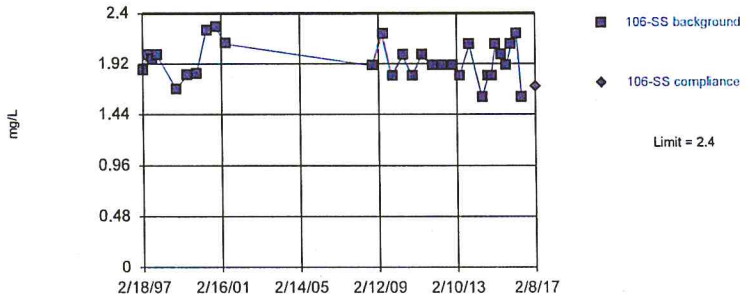
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1.939, Std. Dev.=0.176, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9611, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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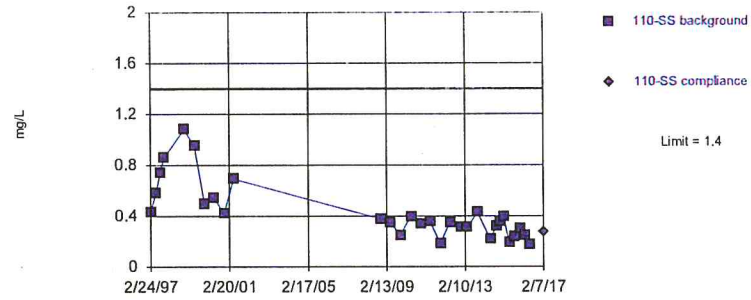
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-0.9585, Std. Dev.=0.4766, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9631, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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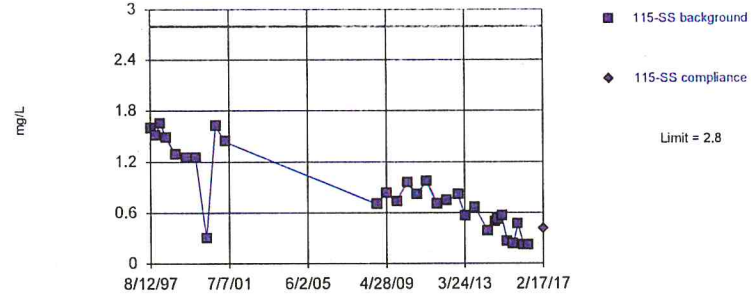
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.9104, Std. Dev.=0.1837, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9397, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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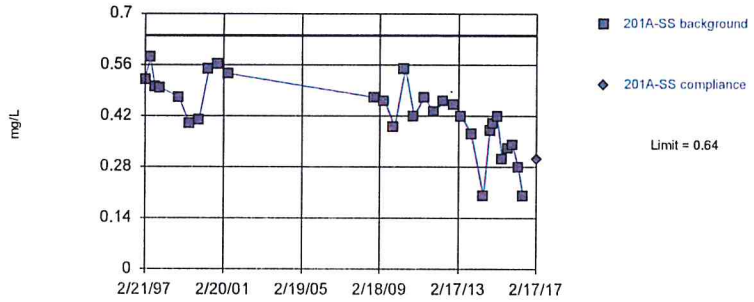
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.1904, Std. Dev.=0.07845, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:30 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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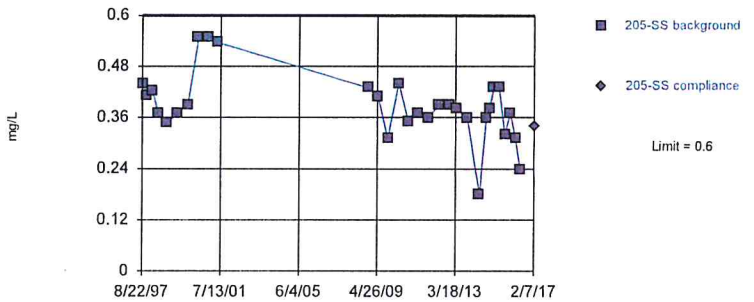
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3865, Std. Dev.=0.07775, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9303, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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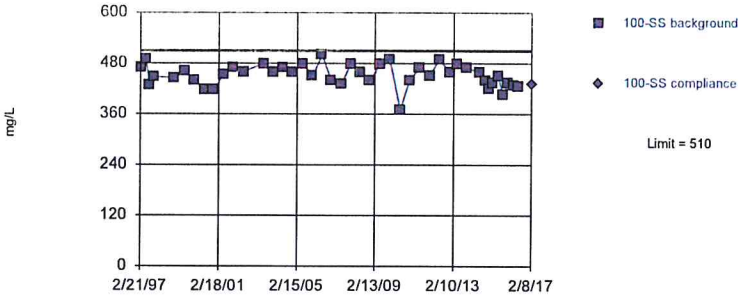
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.3e10, Std. Dev.=9.4e9, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9828, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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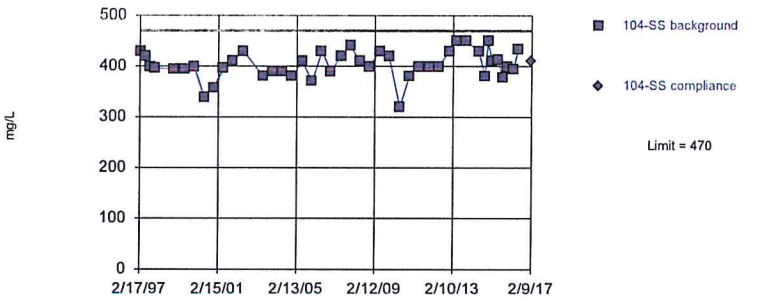
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.6e7, Std. Dev.=1.3e7, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9674, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

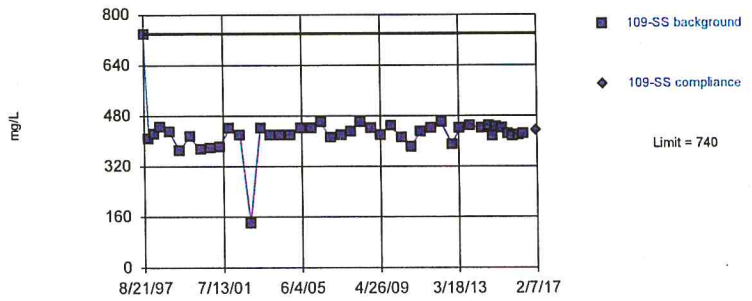
Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

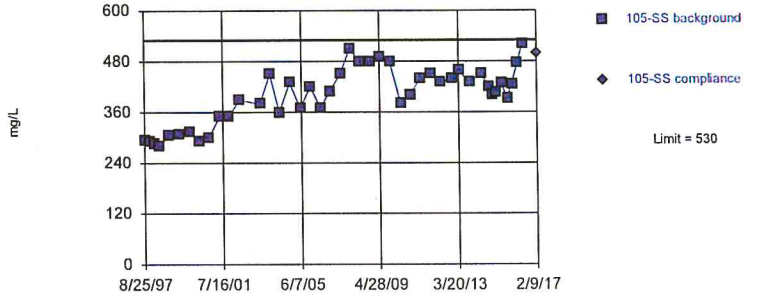
Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.9e7, Std. Dev.=3.1e7, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9529, critical = 0.922. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

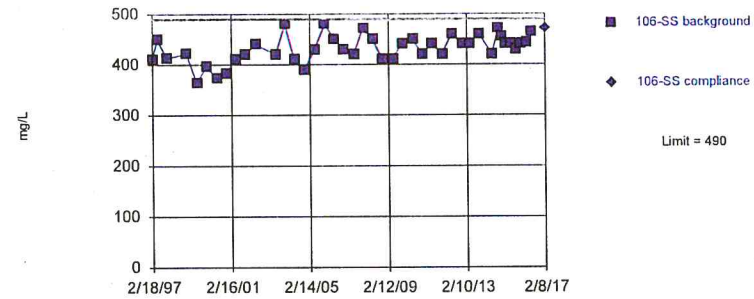
Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.1e7, Std. Dev.=1.5e7, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9744, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/25/1997); 130 (11/19/2002).

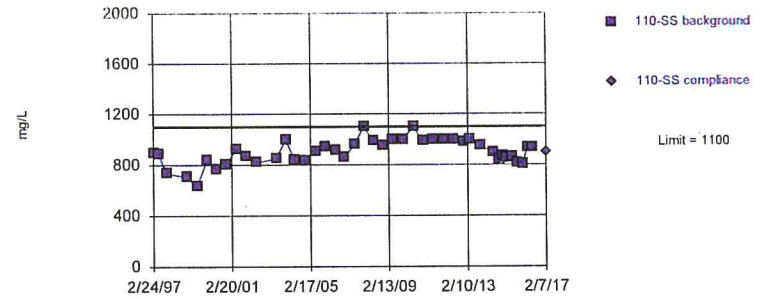
Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=822505, Std. Dev.=174021, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 437 (8/22/1997); 270 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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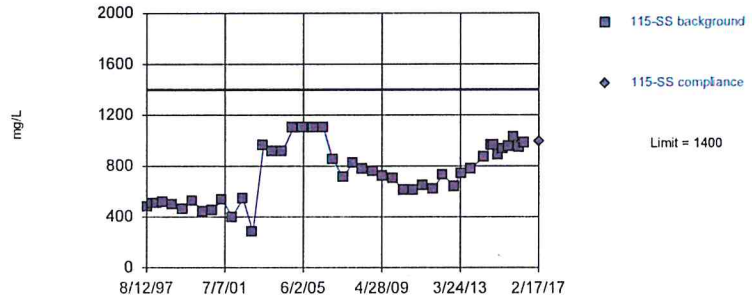
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=26.89, Std. Dev.=4.205, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9481, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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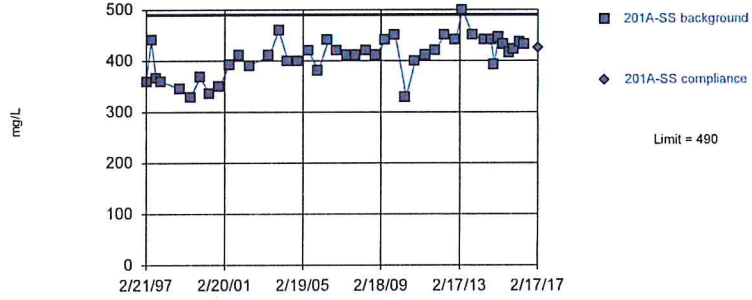
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=7.0e7, Std. Dev.=1.9e7, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9627, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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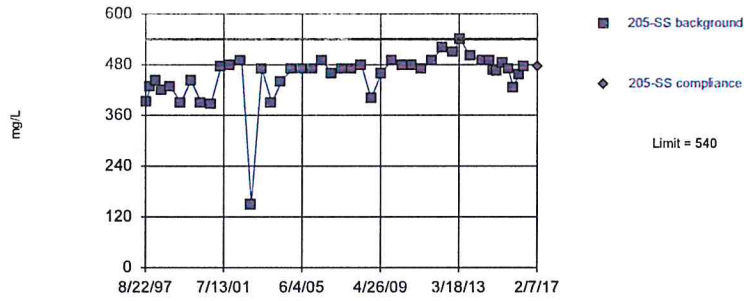
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=2.1e13, Std. Dev.=8.6e12, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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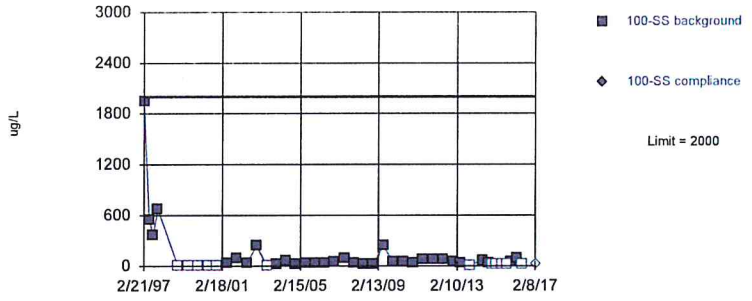
Hollow symbols indicate censored values.

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 44 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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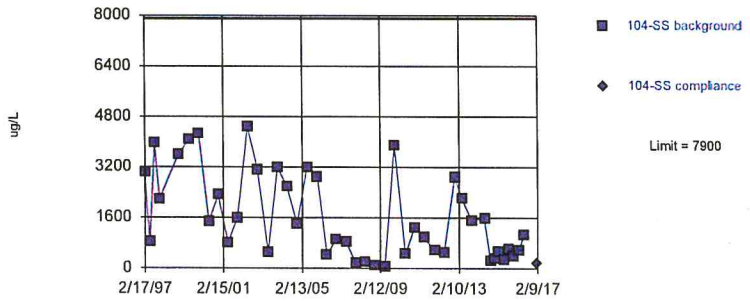
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=10.75, Std. Dev =3.552, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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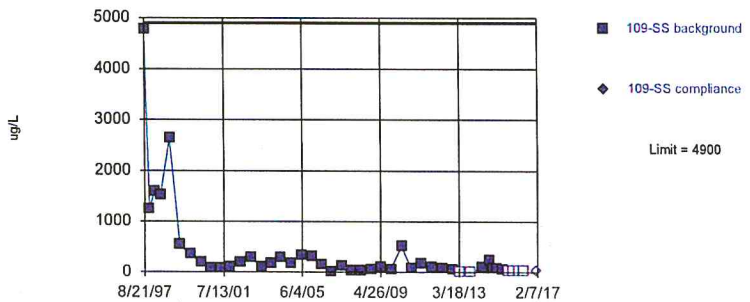
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.863, Std. Dev.=1.399, n=44, 13.64% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9637, critical = 0.924. Kappa = 2.591 (c=31, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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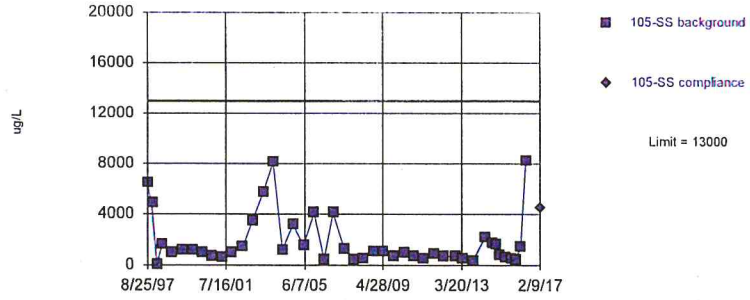
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.062, Std. Dev.=0.9432, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9535, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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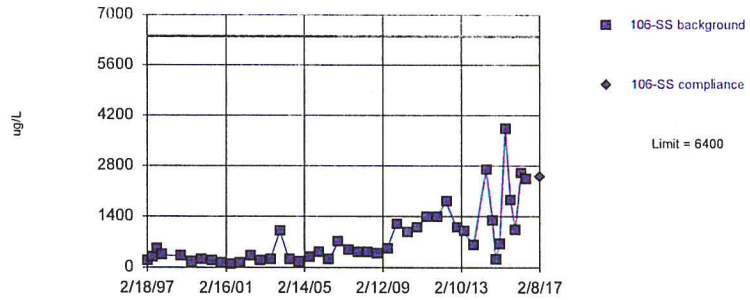
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.232, Std. Dev.=0.9765, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9615, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

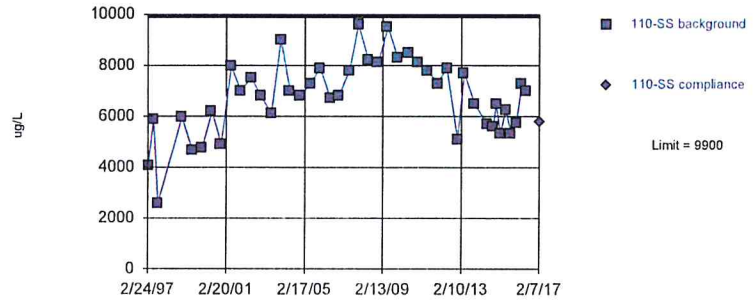
Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.8e7, Std. Dev.=1.9e7, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9835, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <18.2 (11/8/1997).

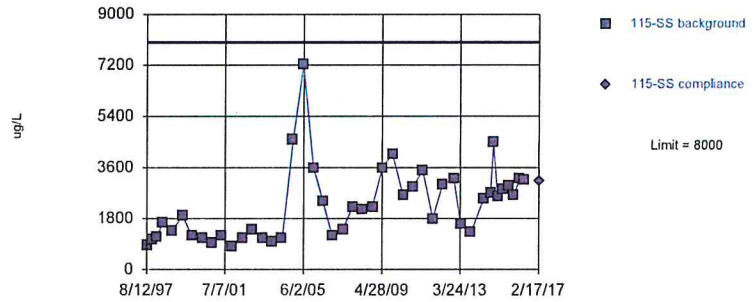
Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.59, Std. Dev.=0.5372, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.95, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

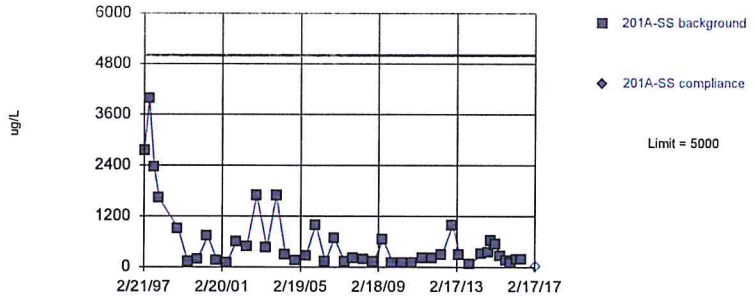
Bridgeton LF Client: RSI Data: Bridgeton LF

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.819, Std. Dev.=1.043, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

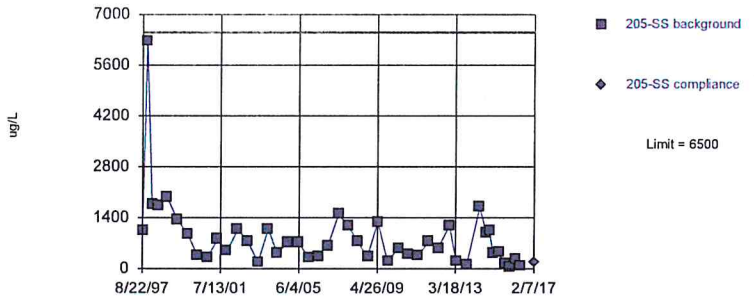
Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.369, Std. Dev.=0.9294, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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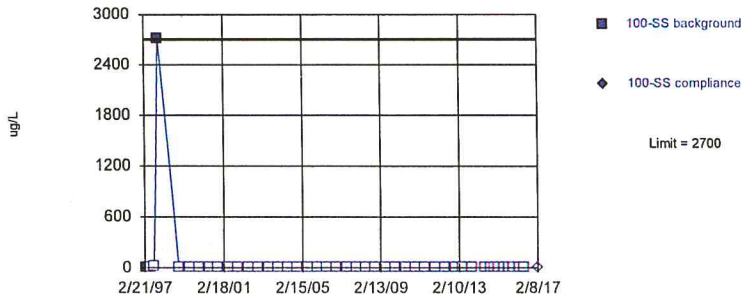
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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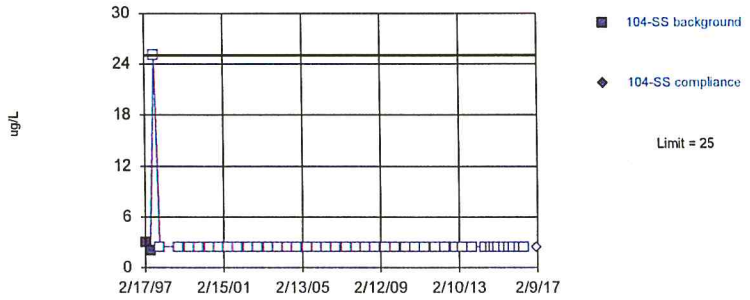
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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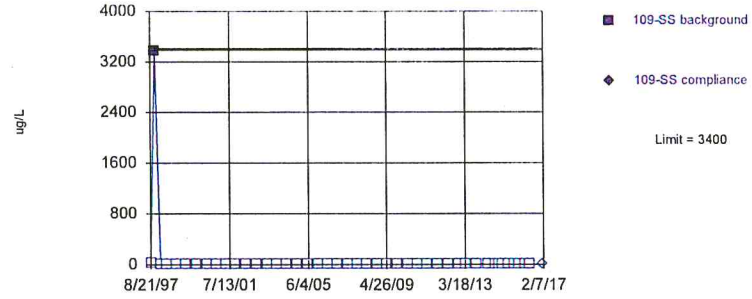
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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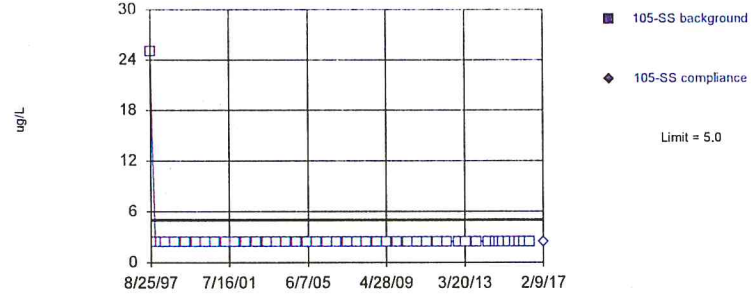
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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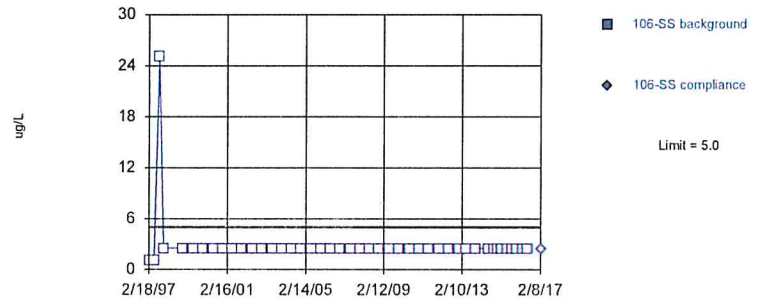
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

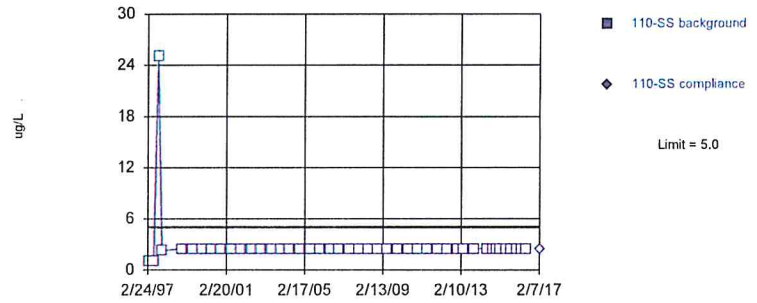
Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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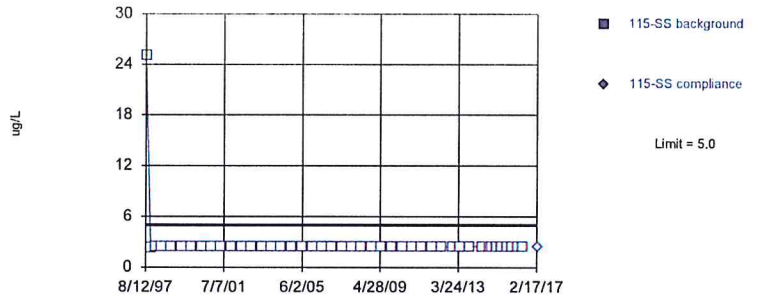
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

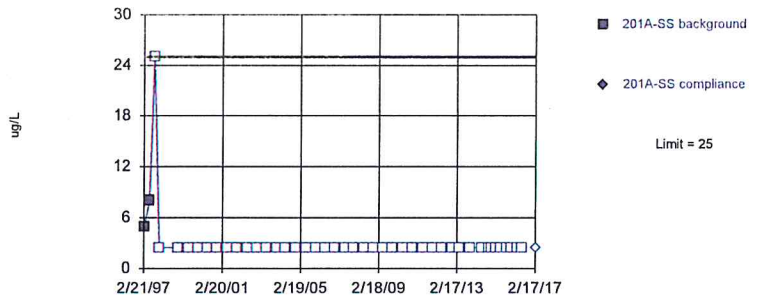
Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

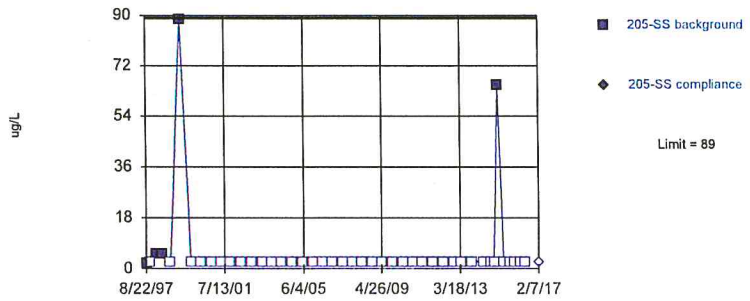
Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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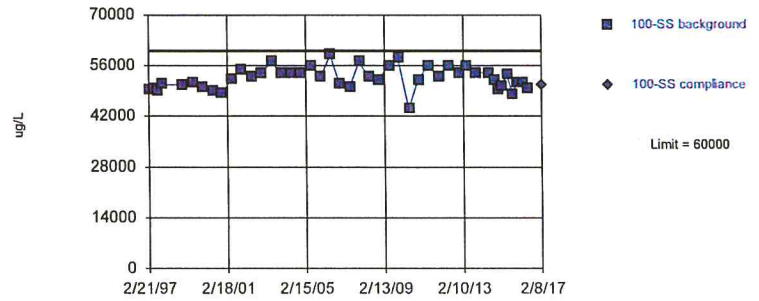
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=2.3e9, Std. Dev.=3.2e8, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.921. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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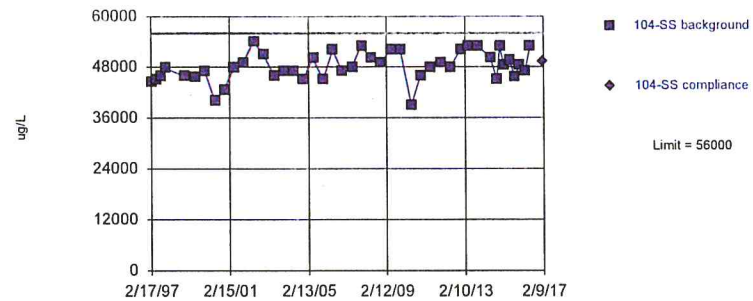
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=2.3e9, Std. Dev.=3.3e8, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9595, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Data: Bridgeton LF

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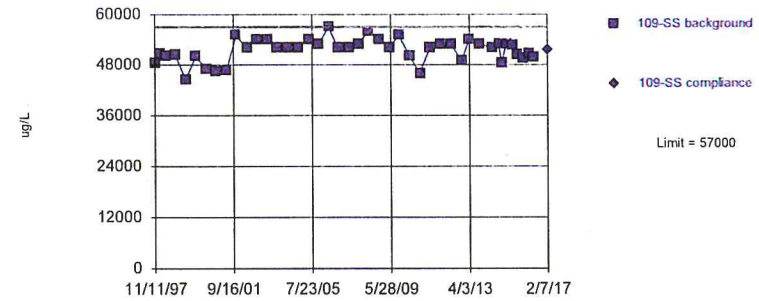
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=3.7e23, Std. Dev.=9.3e22, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 74000 (8/21/1997).

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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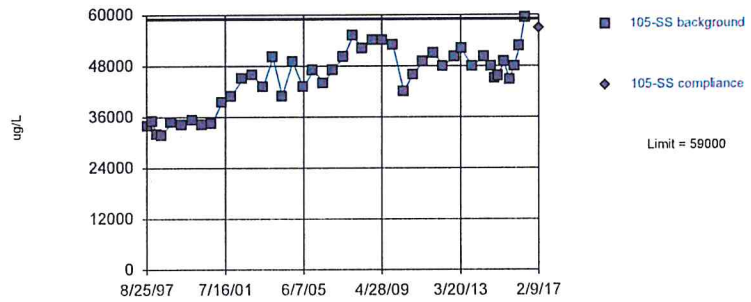
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=9.9e13, Std. Dev.=4.2e13, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9597, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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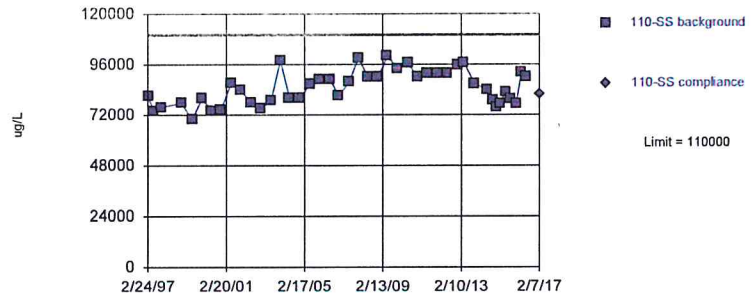
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.35, Std. Dev.=0.09465, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 51000 (8/22/1997).

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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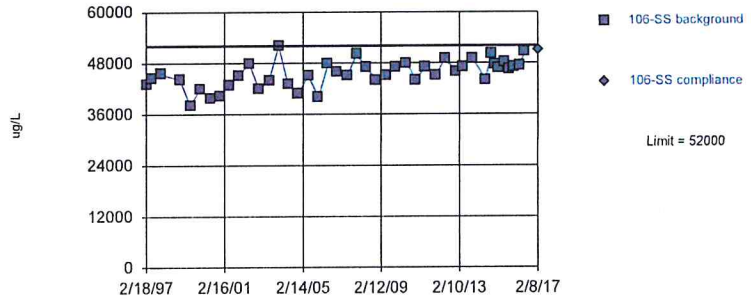
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=9.5e13, Std. Dev.=1.9e13, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9868, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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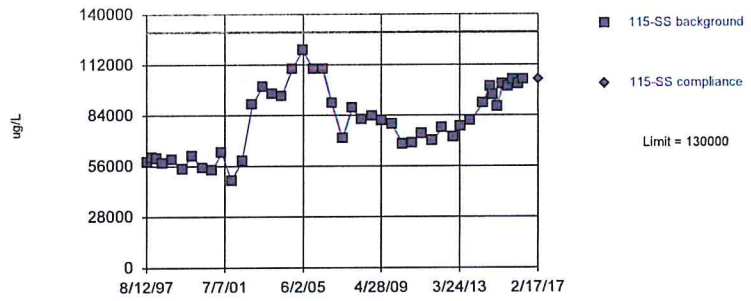
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=81209, Std. Dev.=18934, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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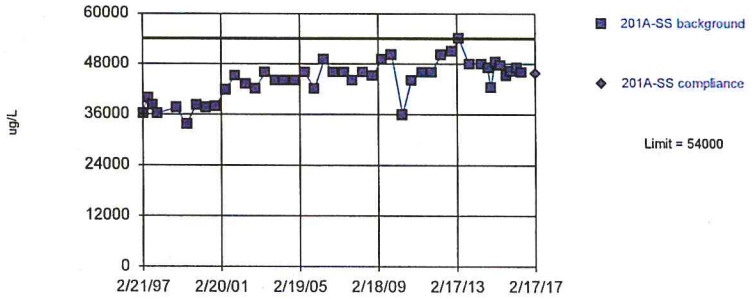
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.8e13, Std. Dev.=2.6e13, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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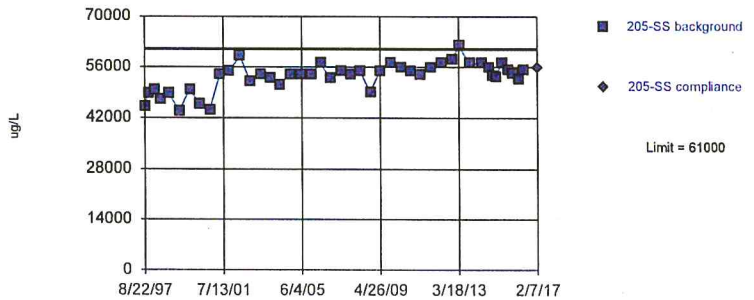
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=4.5e23, Std. Dev.=1.5e23, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9602, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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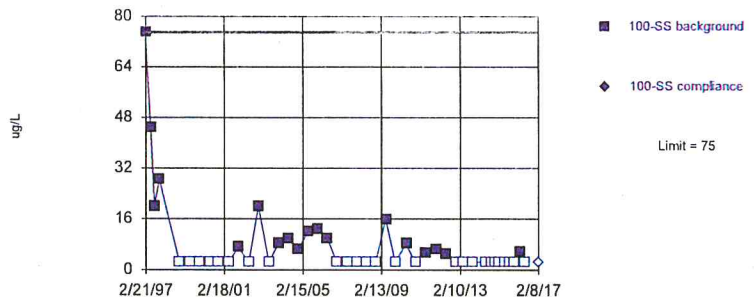
Hollow symbols indicate censored values.

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 44 background values. 59.09% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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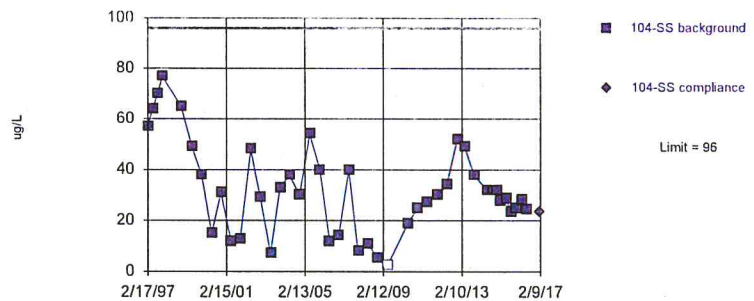
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.443, Std. Dev.=1.667, n=43, 2.326% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9762, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 160 (11/4/2009).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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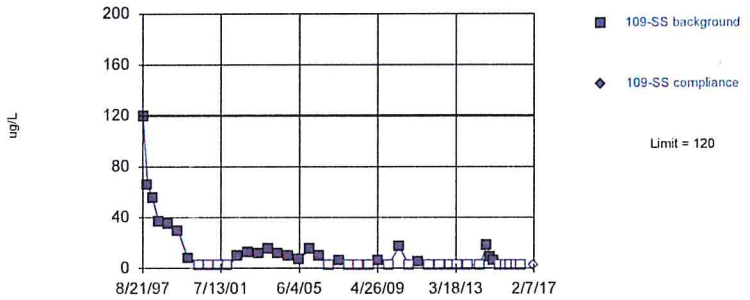
Hollow symbols indicate censored values.

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 44 background values. 47.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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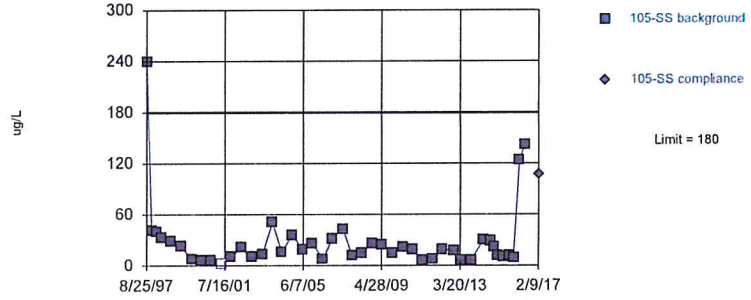
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.919, Std. Dev.=0.887, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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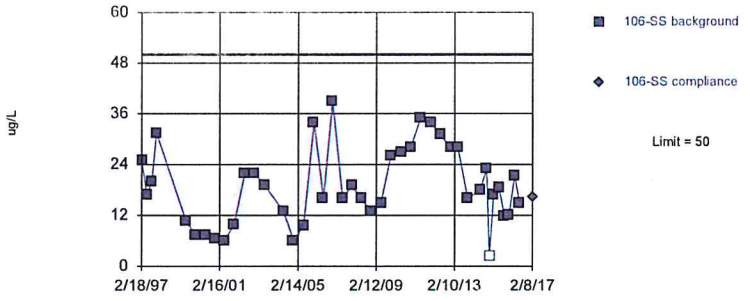
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.211, Std. Dev.=1.09, n=42, 2.381% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9792, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 84.2 (11/11/1998); 270 (11/20/2003).

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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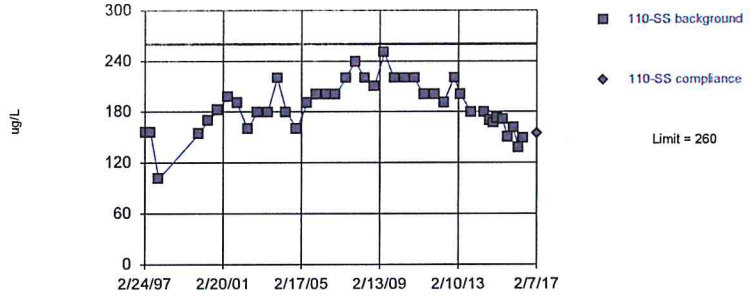
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=186, Std. Dev.=29.8, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9761, critical = 0.92. Kappa = 2.61 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Three background outliers were removed: 20 (8/22/1997); 70.8 (11/13/1998); 54.5 (5/18/1999).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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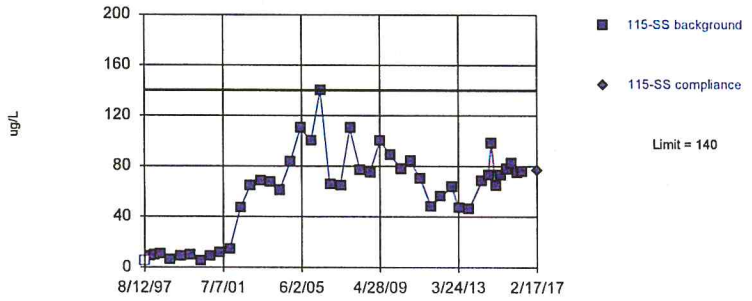
Hollow symbols indicate censored values.

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 44 background values. 2.273% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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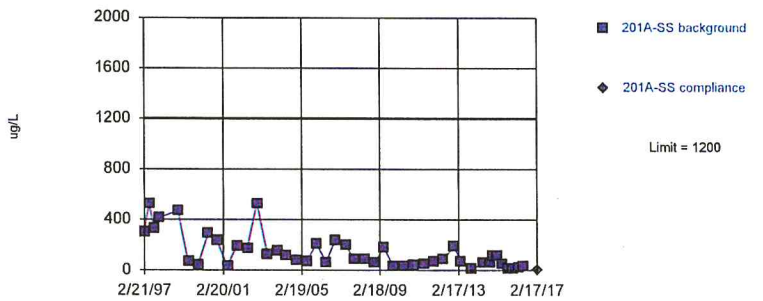
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.545, Std. Dev.=0.9709, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9732, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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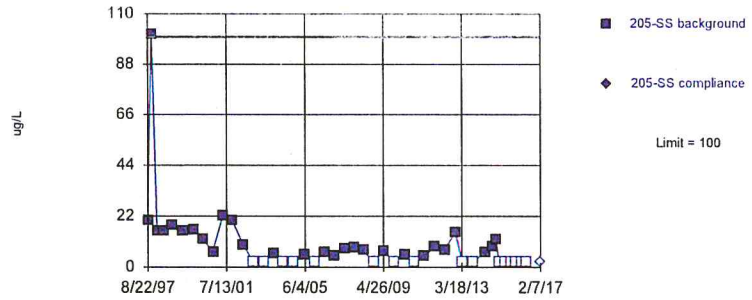
Hollow symbols indicate censored values.

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 44 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton

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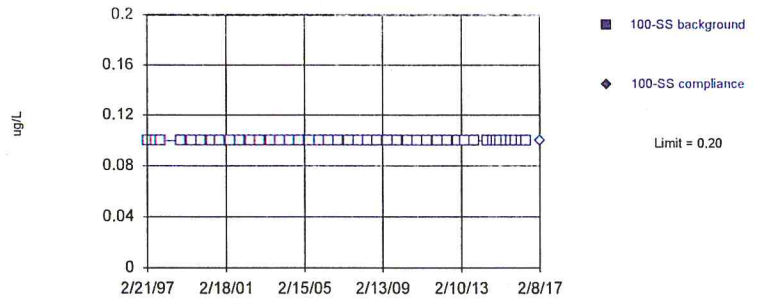
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent Manganese Total Analysis Run 3/14/2017 8:31 AM

Bridgeton RSI Data Bridgeton LF

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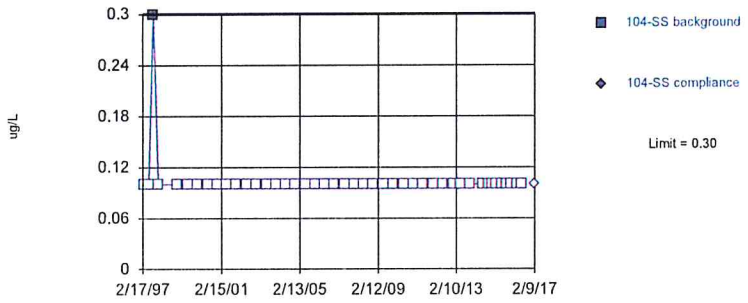
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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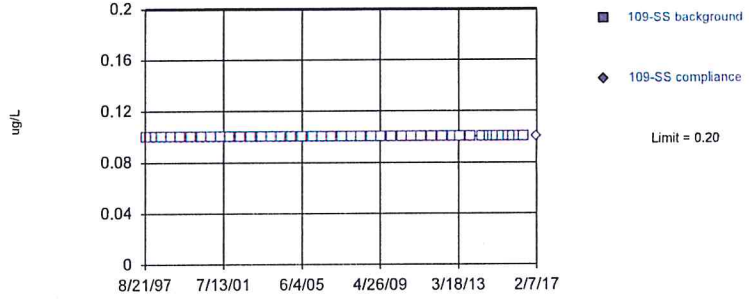
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

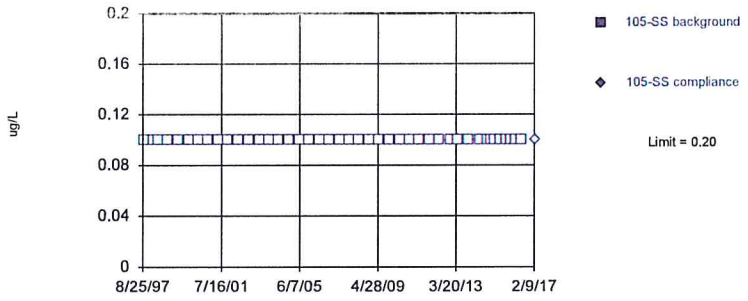
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

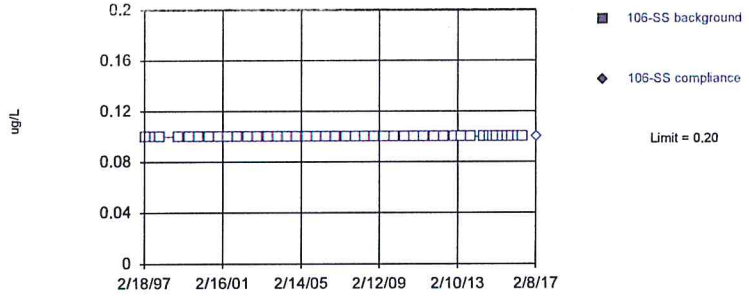
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

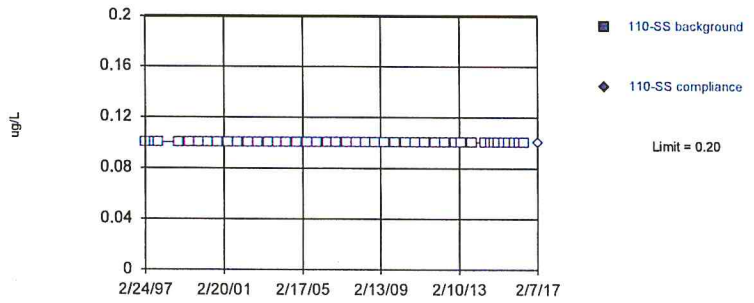
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

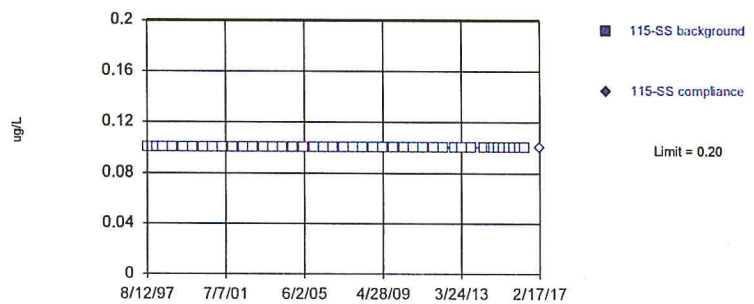
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

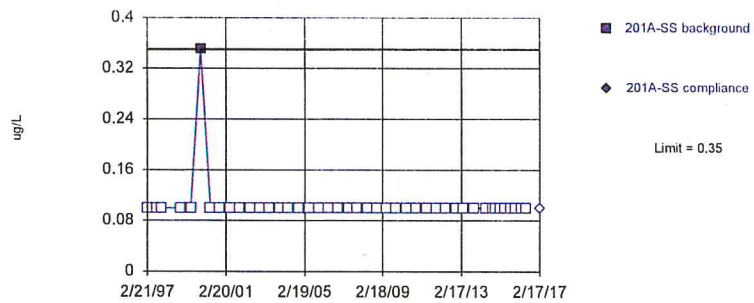
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

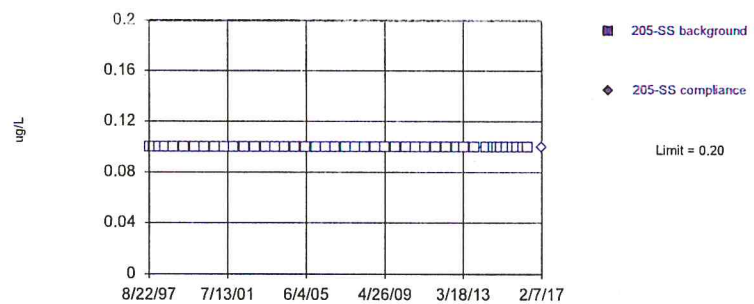
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 8:31 AM

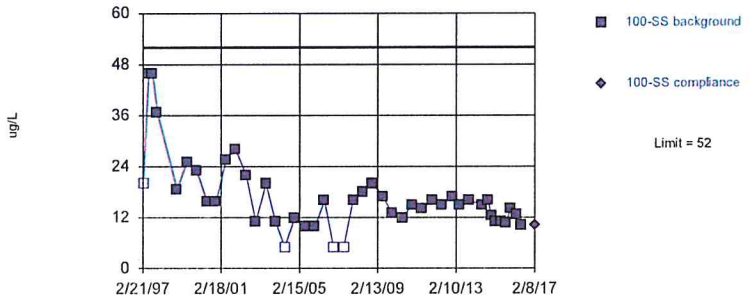
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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=2.718, Std. Dev.=0.476, n=44, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9377, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

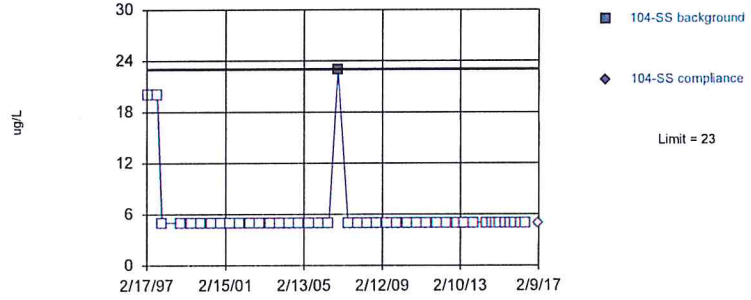
Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

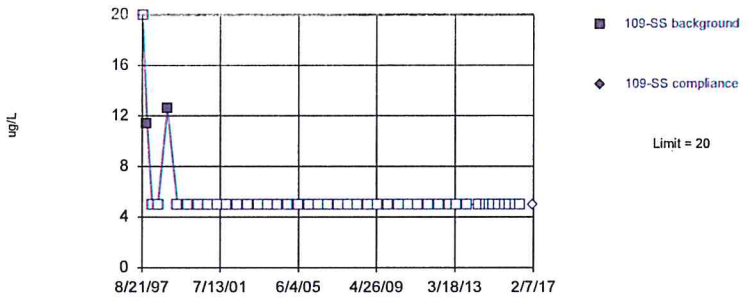
Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

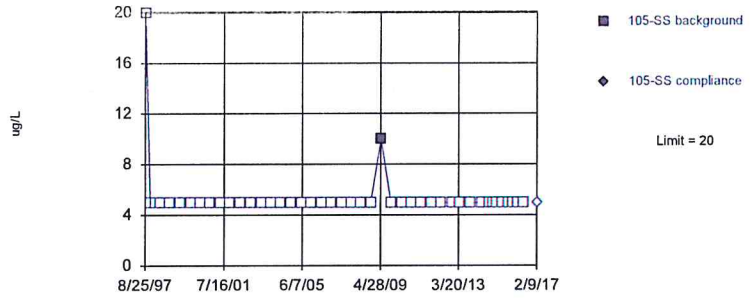
Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

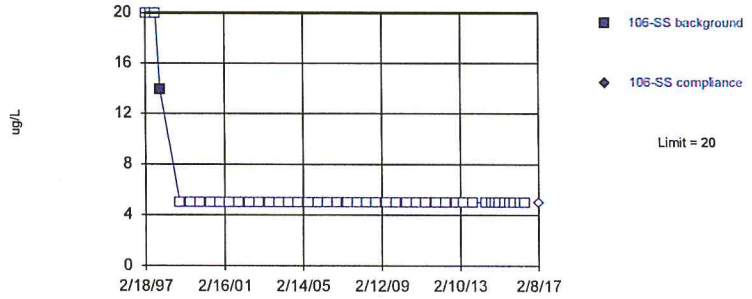
Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM

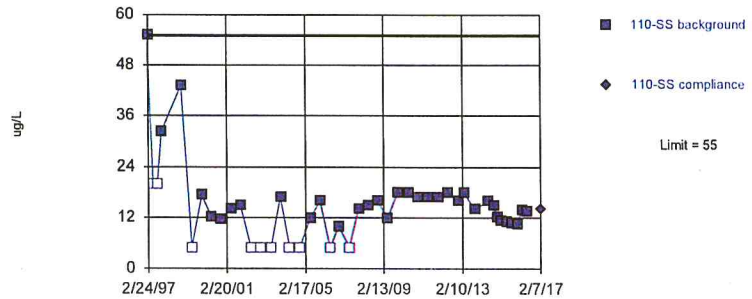
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 22.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM

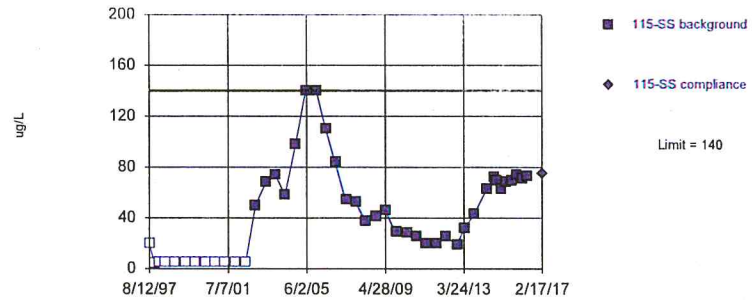
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 27.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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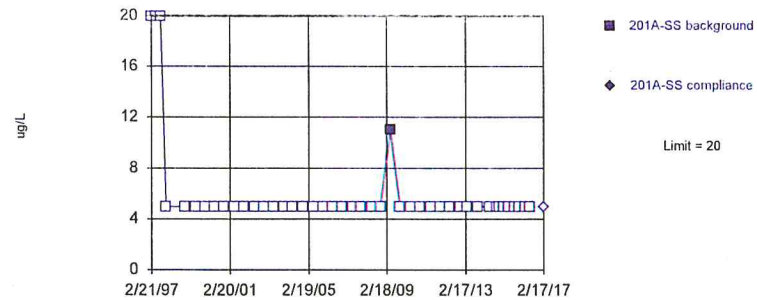
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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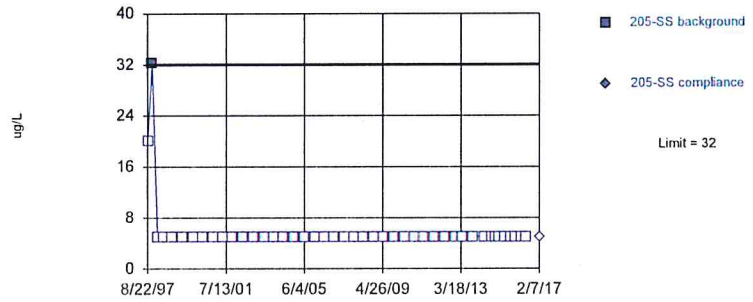
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

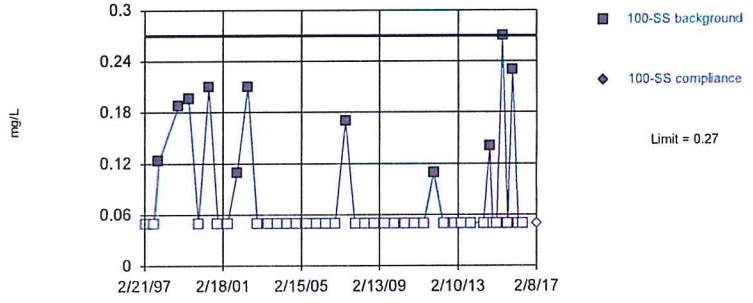
Constituent: Nickel Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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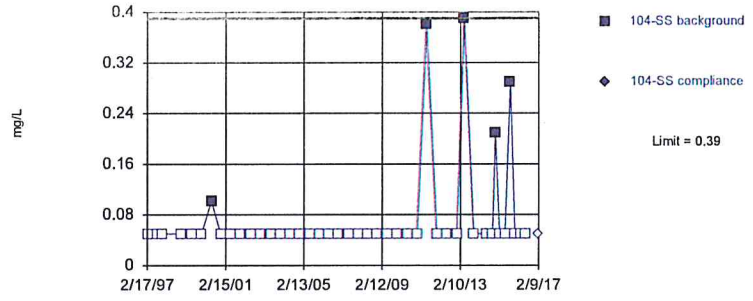
Hollow symbols indicate censored values.

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 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

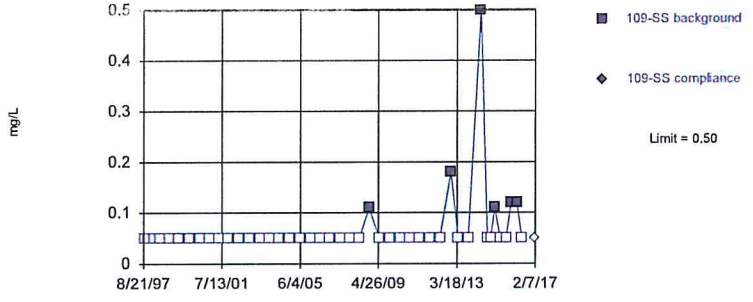
Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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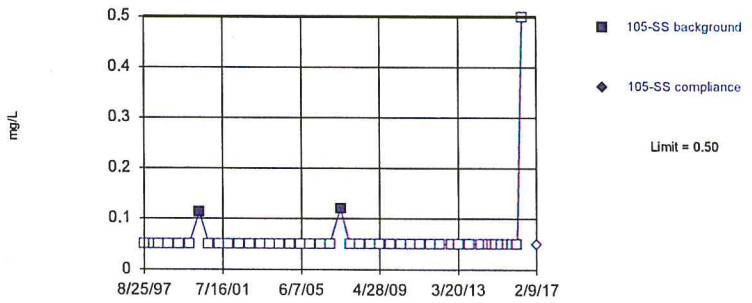
Hollow symbols indicate censored values.

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 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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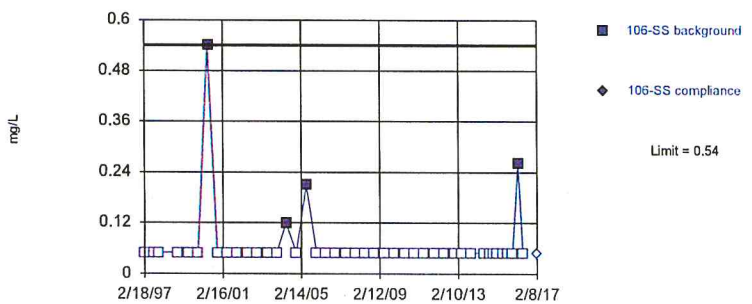
Hollow symbols indicate censored values.

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 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM

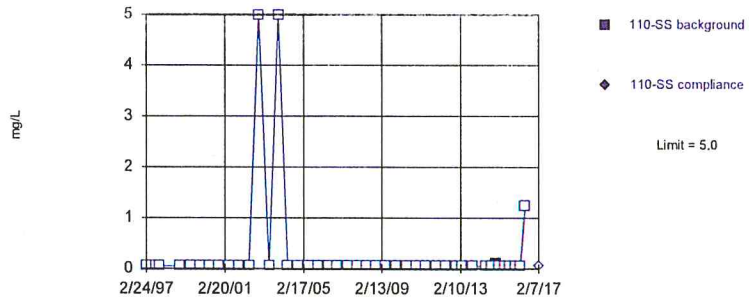
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM

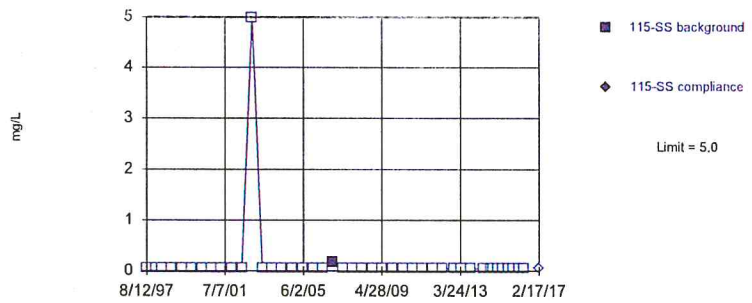
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM

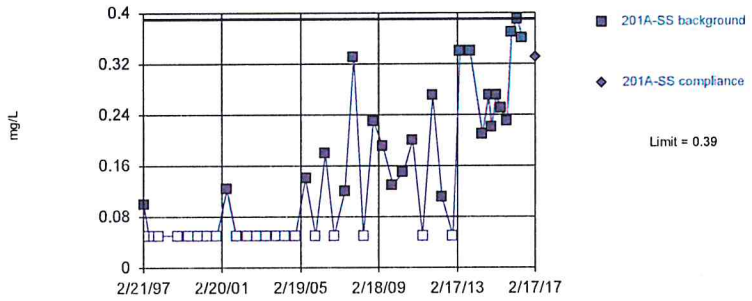
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

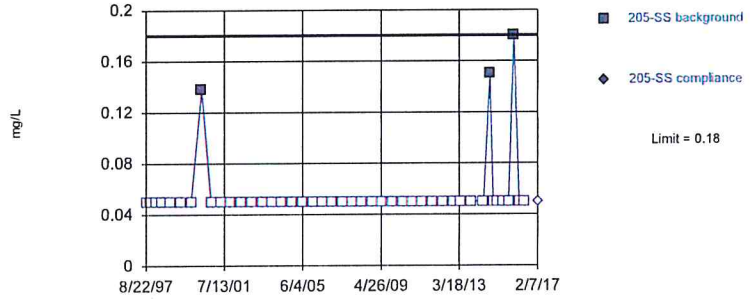
Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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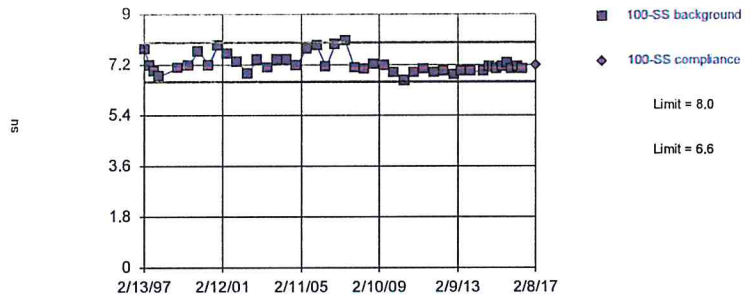
Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 44 background values. Well-constituent pair annual alpha = 0.007921. Individual comparison alpha = 0.001983 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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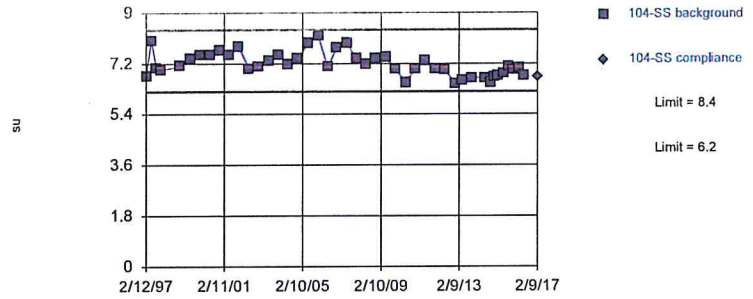
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.97, Std. Dev.=0.05902, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

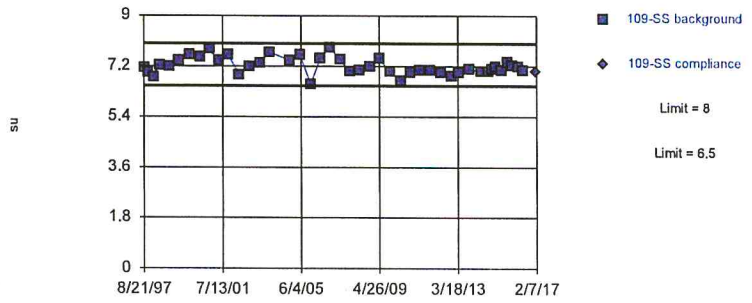
Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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.=0.03978, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 10.9 (5/11/2004).

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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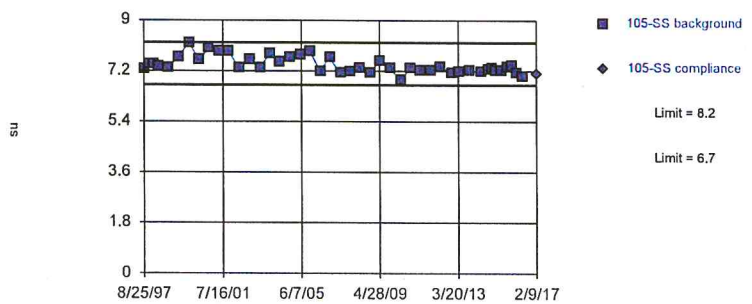
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.002, Std. Dev.=0.03834, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9256, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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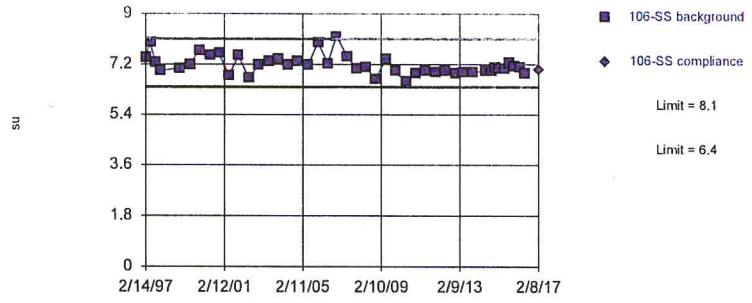
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.97, Std. Dev.=0.04671, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9426, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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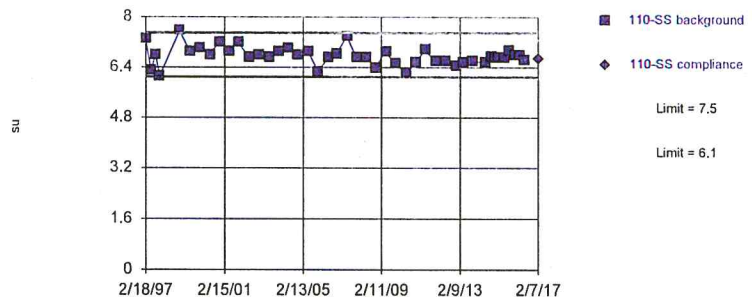
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.911, Std. Dev.=0.0426, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.972, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM

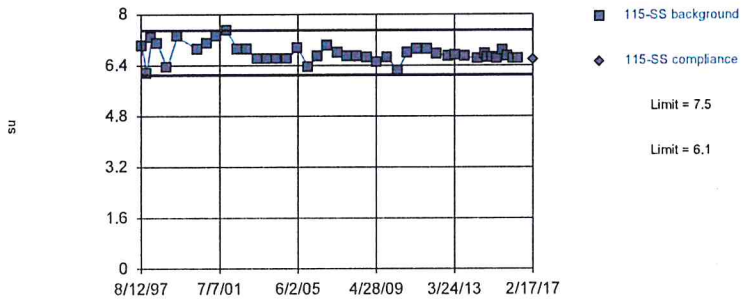
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.91, Std. Dev.=0.04106, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9528, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 7.9 (11/19/1999).

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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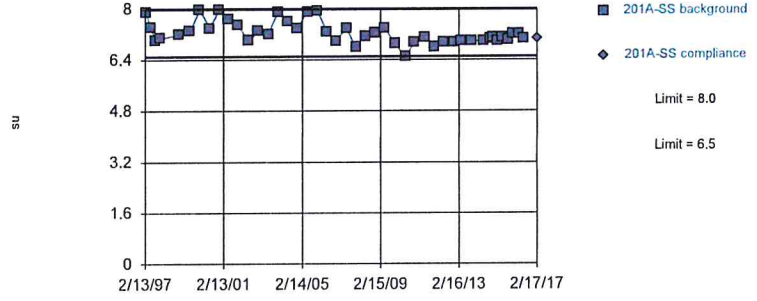
Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 44 background values. Well-constituent pair annual alpha = 0.007921. Individual comparison alpha = 0.001983 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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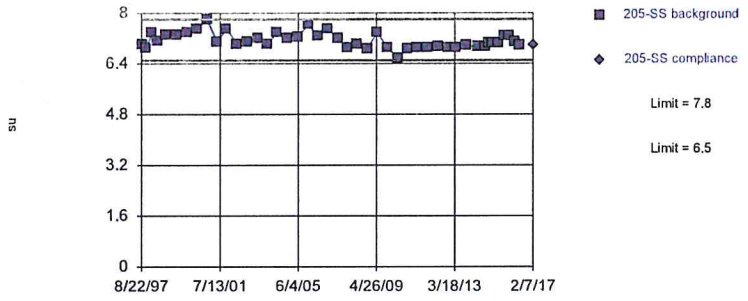
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.964, Std. Dev.=0.0338, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9555, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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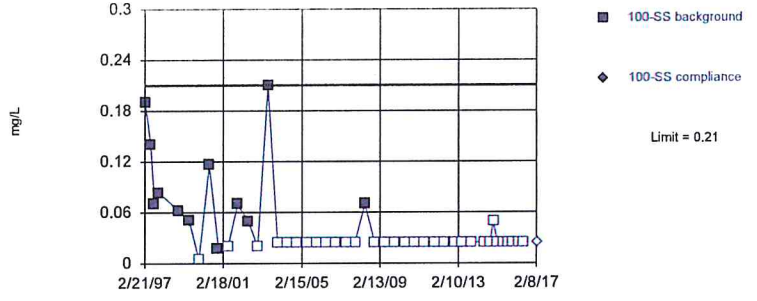
Hollow symbols indicate censored values.

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 44 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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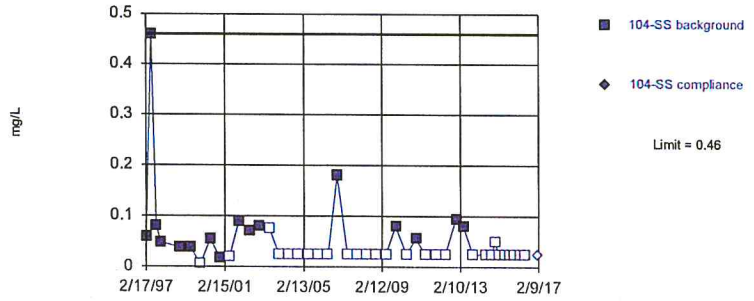
Hollow symbols indicate censored values.

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 44 background values. 63.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

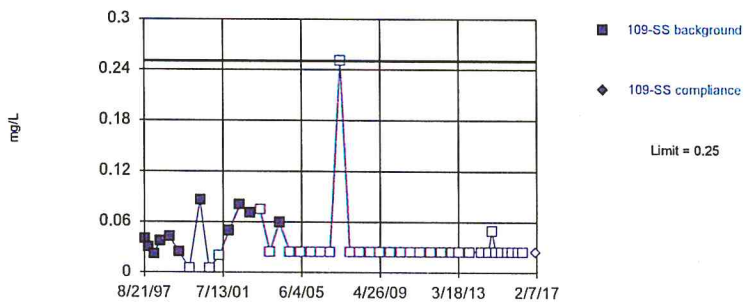
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

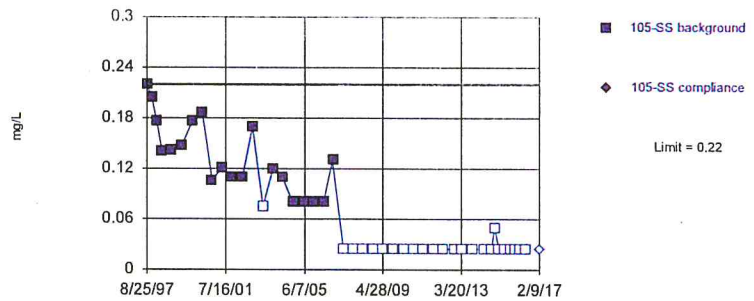
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

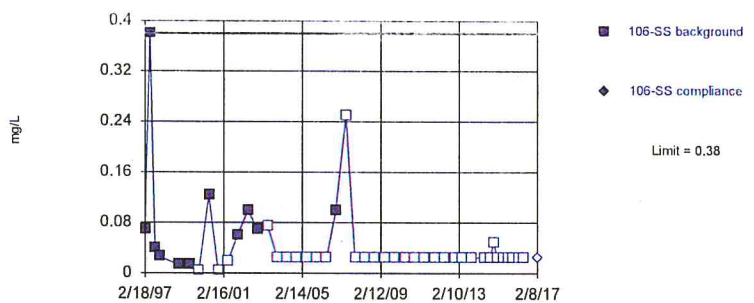
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

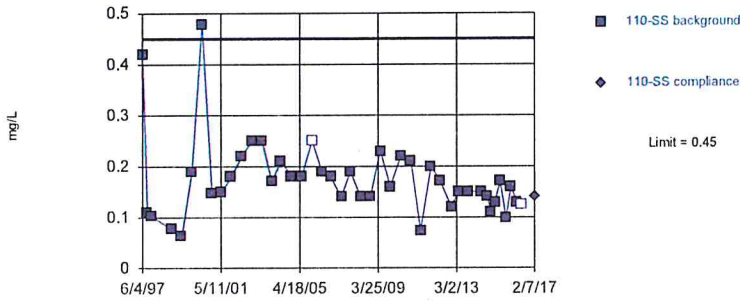
Bridgeton LF Client: RSI Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.823, Std. Dev.=0.3907, n=43, 4.651% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.4 (2/24/1997).

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

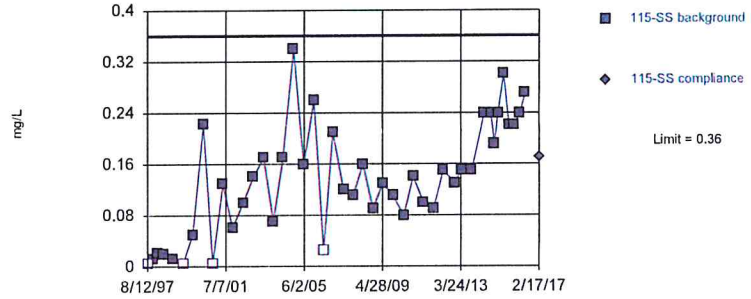
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1377, Std. Dev.=0.08749, n=44, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.957, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

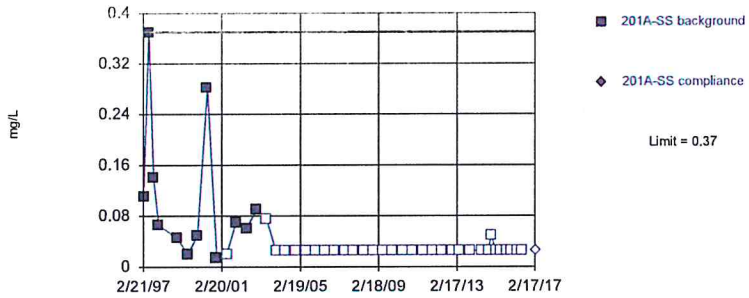
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

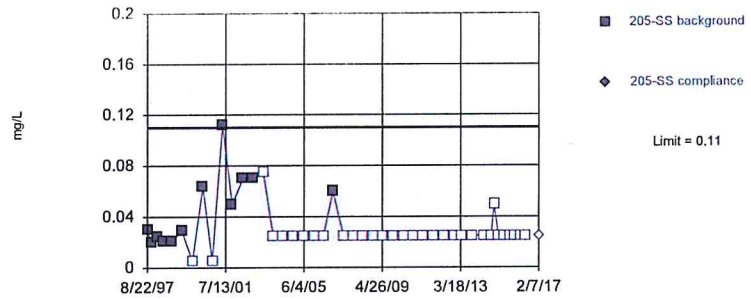
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 8:31 AM

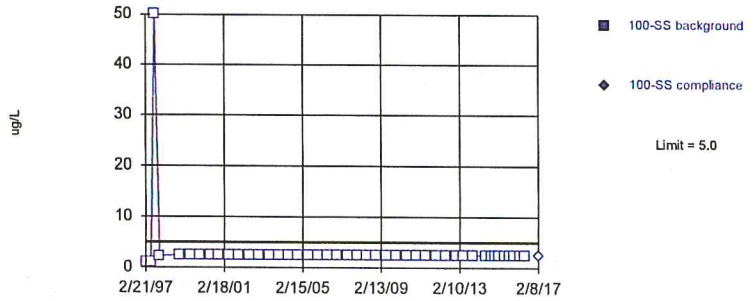
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

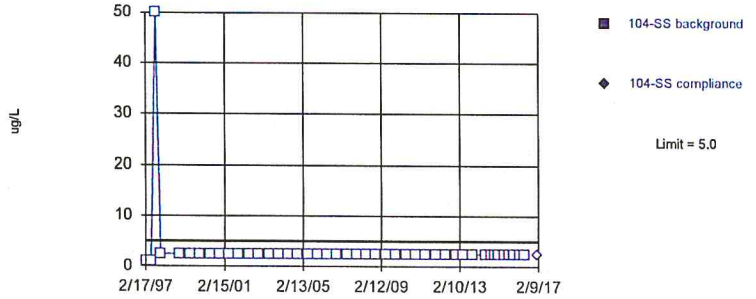
Constituent: Selenium Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

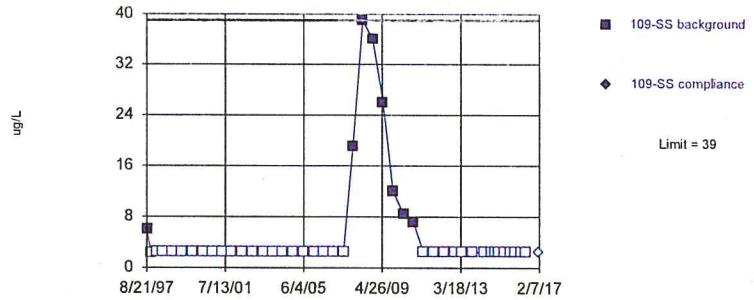
Constituent: Selenium Total Analysis Run 3/14/2017 8:31 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

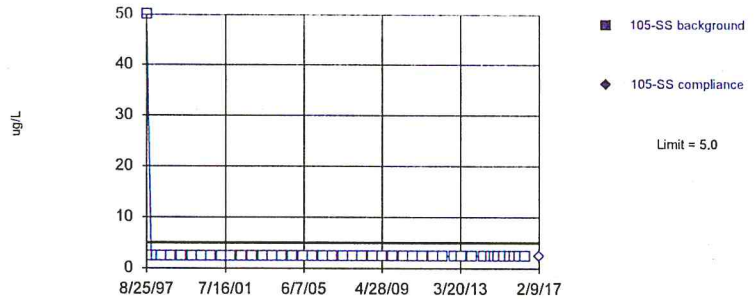
Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

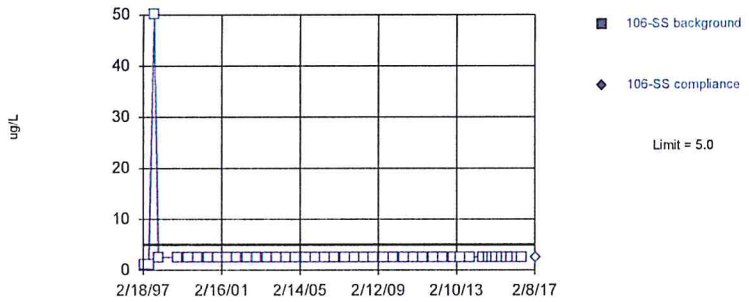
Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

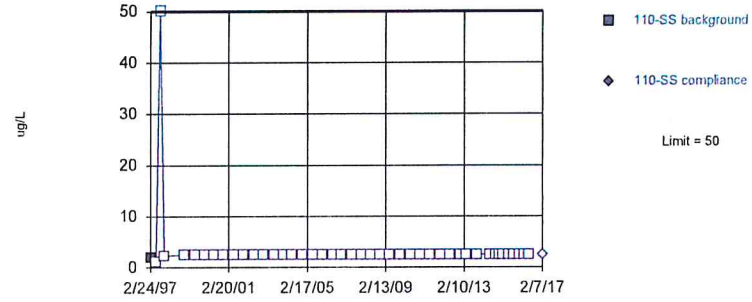
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

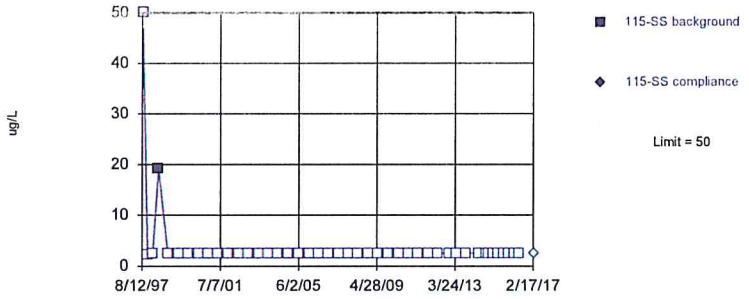
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

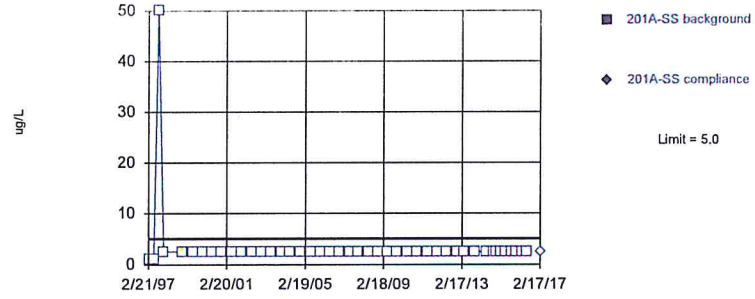
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

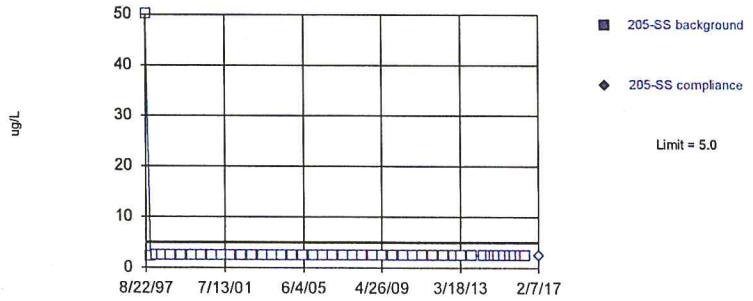
Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 8:32 AM

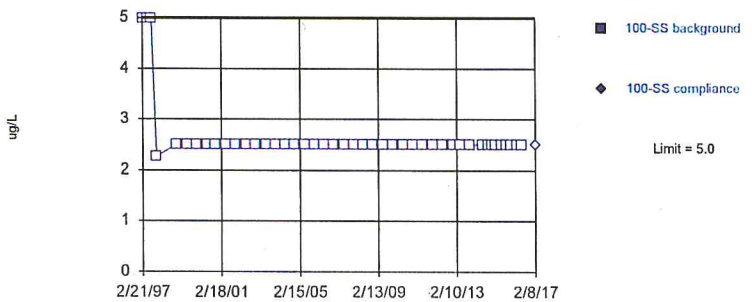
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

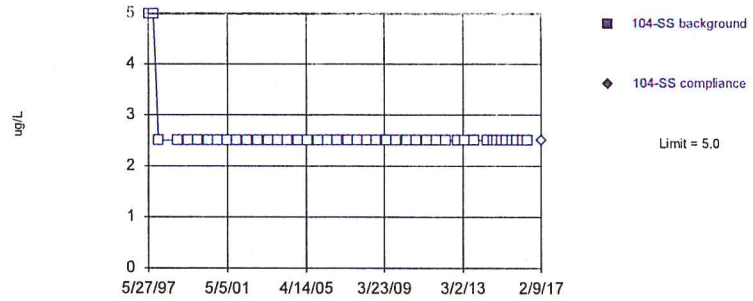
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 43) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004121. Individual comparison alpha = 0.001032 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

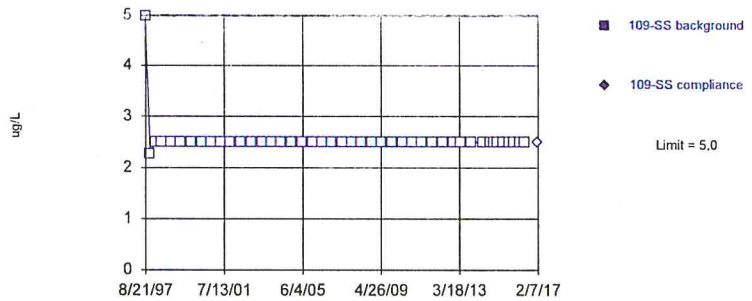
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

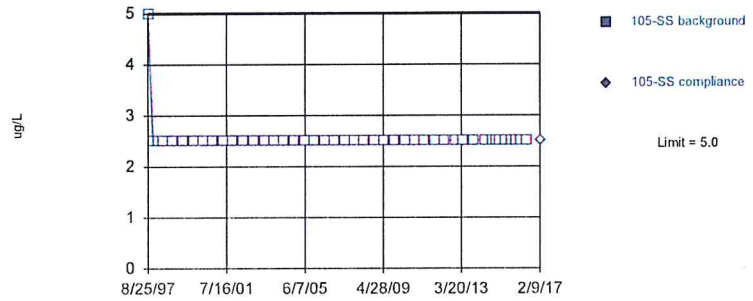
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

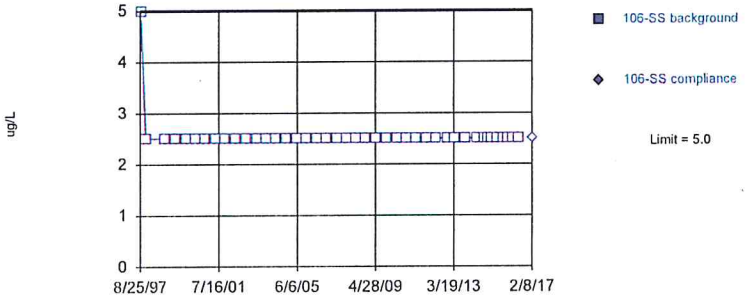
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 42) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004281. Individual comparison alpha = 0.001072 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

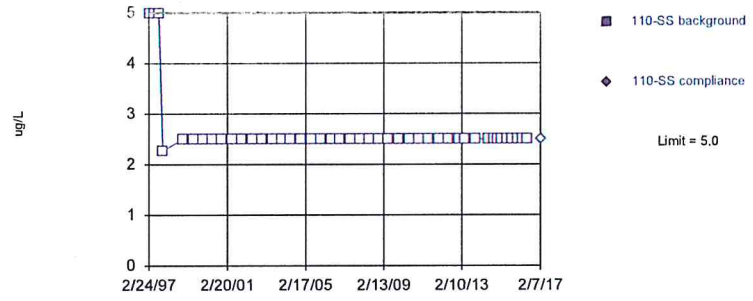
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

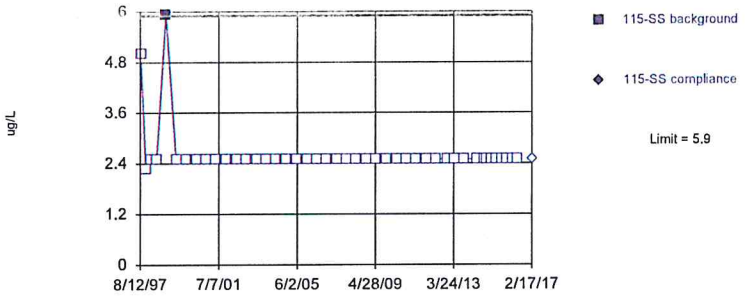
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM

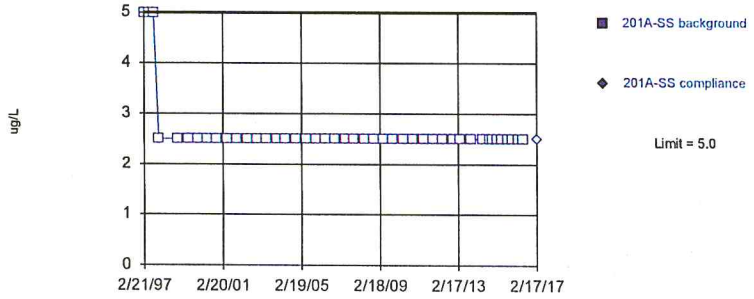
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

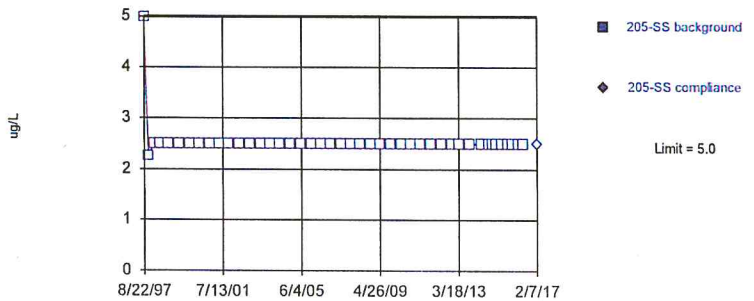
Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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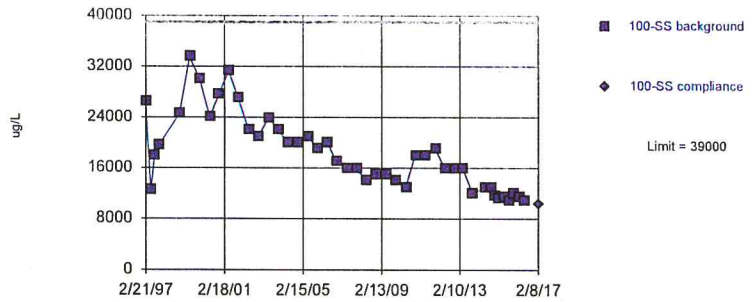
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.765, Std. Dev.=0.3135, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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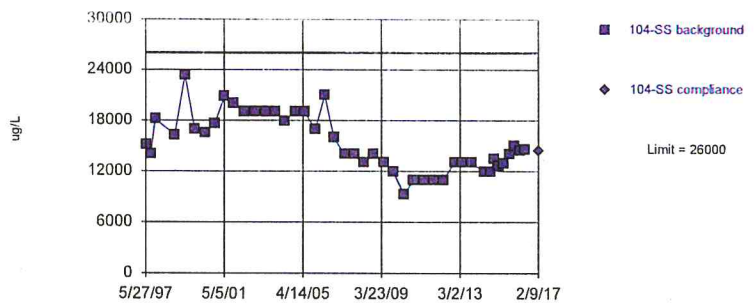
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.614, Std. Dev.=0.215, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9675, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 34800 (2/17/1997).

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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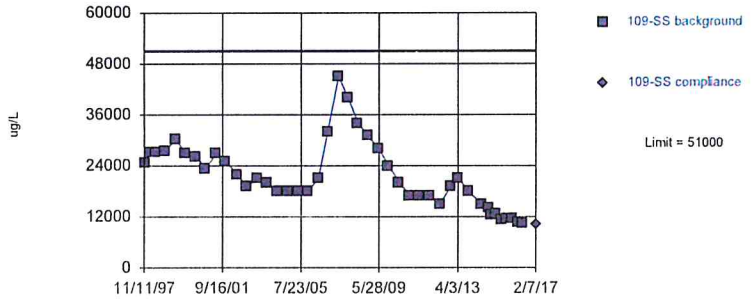
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.917, Std. Dev.=0.3588, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9708, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 68000 (8/21/1997).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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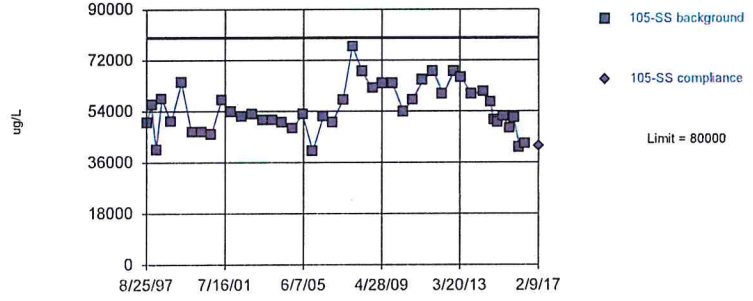
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.9, Std. Dev.=0.1505, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9749, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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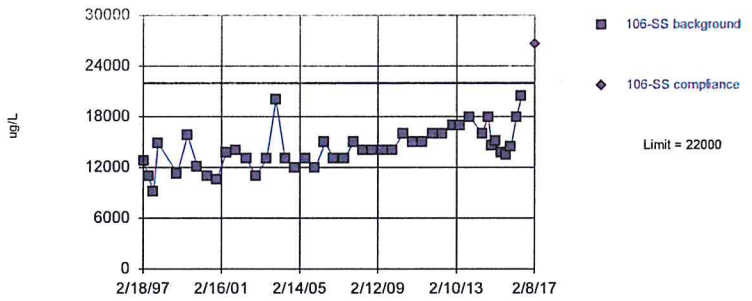
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.554, Std. Dev.=0.1699, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9843, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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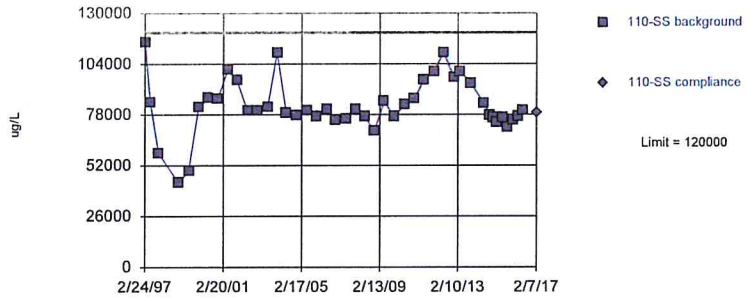
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82542, Std. Dev.=14035, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9274, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 19000 (8/22/1997).

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Bridgeton LF Client: RSI Data: Bridgeton LF

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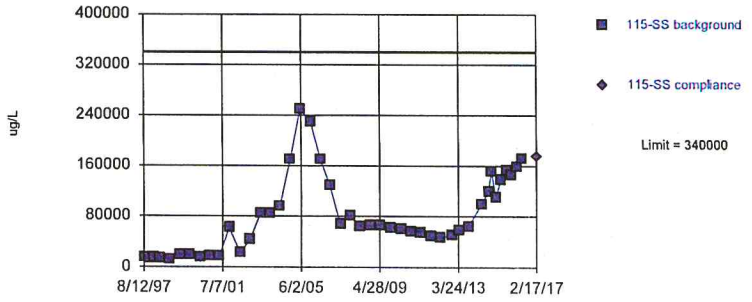
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=40.64, Std. Dev.=11.13, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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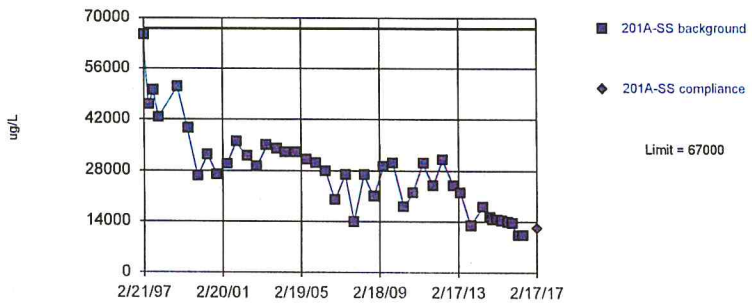
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=29.57, Std. Dev.=4.257, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9642, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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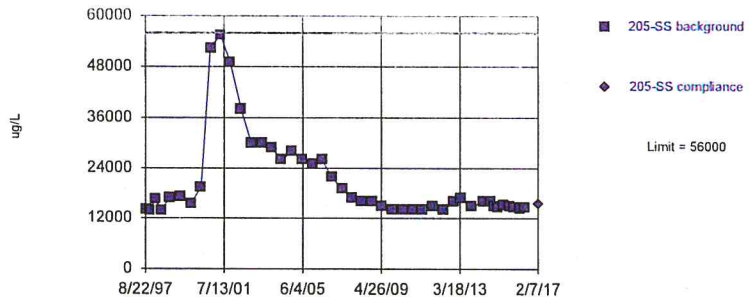
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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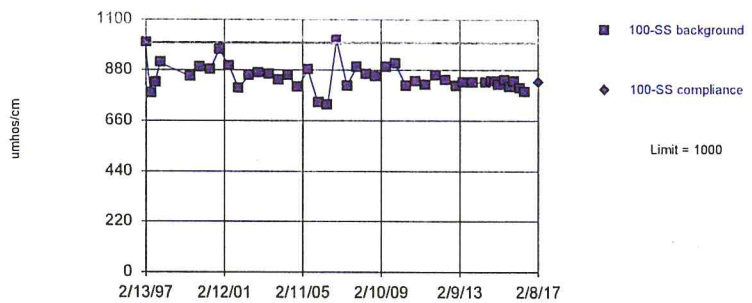
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.74, Std. Dev.=0.0657, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9448, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 1080 (11/12/1998).

Constituent: Specific Conductance [Field] Analysis Run [illegible] 8 32 AM

Bridgeton LF Client: RSI Data: [illegible]

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=695585, Std. Dev.=95020, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9769, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 468 (5/25/2006); 535 (5/9/2011).

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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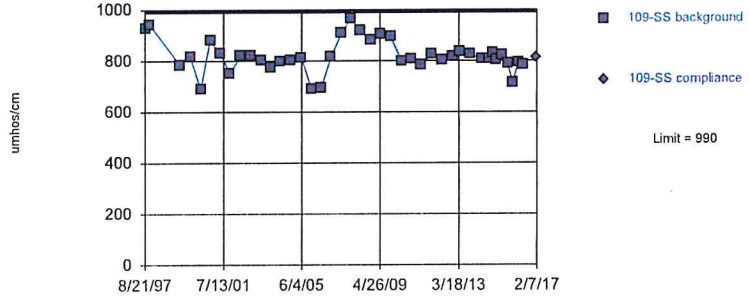
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=28.59, Std. Dev.=1.11, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9265, critical = 0.92. Kappa = 2.61 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Three background outliers were removed: 1270 (2/13/1998); 1260 (5/29/1998); 1190 (11/14/1998).

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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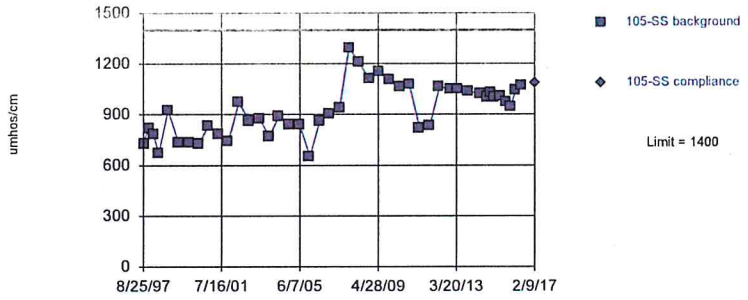
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=30.37, Std. Dev.=2.468, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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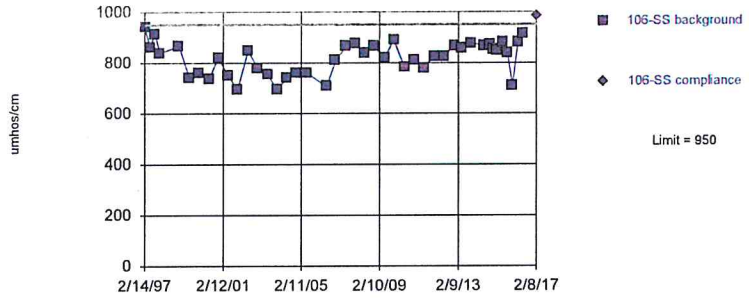
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.7e11, Std. Dev.=1.4e11, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9558, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 595 (11/29/2005).

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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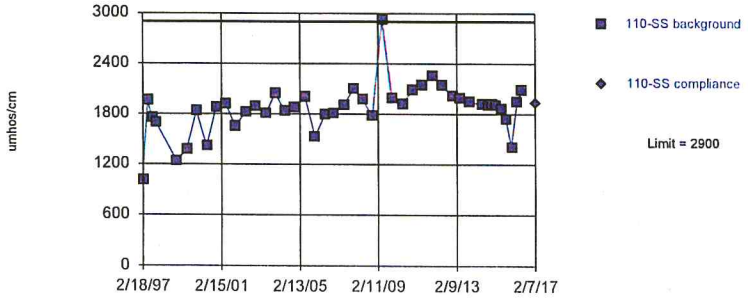
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (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 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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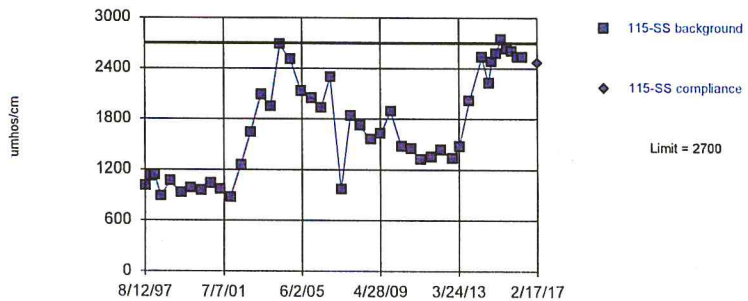
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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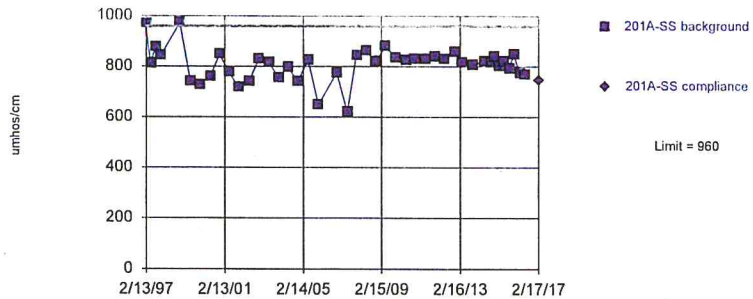
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=658168, Std. Dev.=104291, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9319, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 465 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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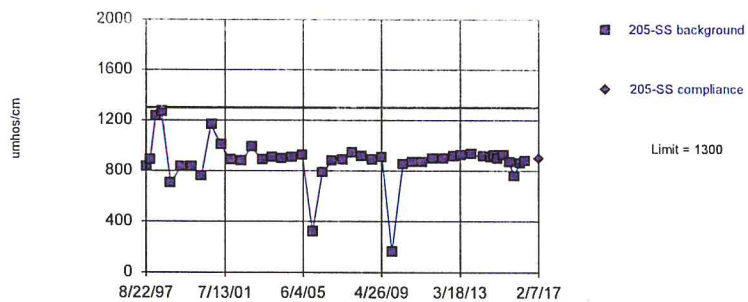
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (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 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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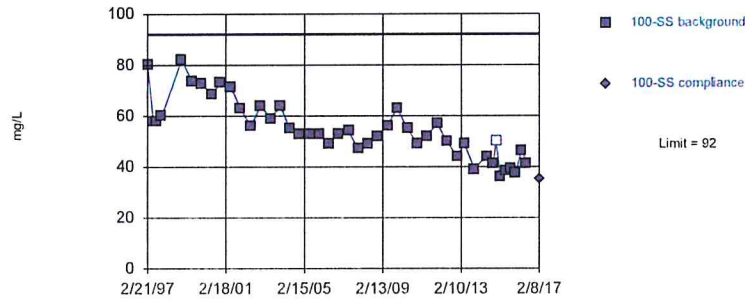
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.982, Std. Dev.=0.2064, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9711, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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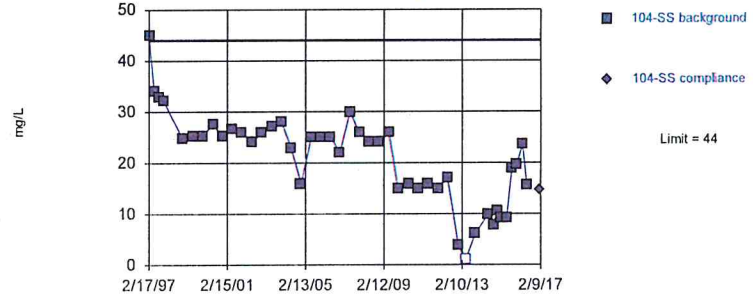
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=21.03, Std. Dev.=8.821, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9576, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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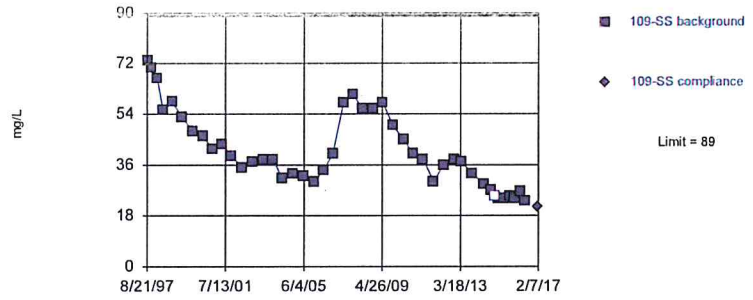
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.665, Std. Dev.=0.3201, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9513, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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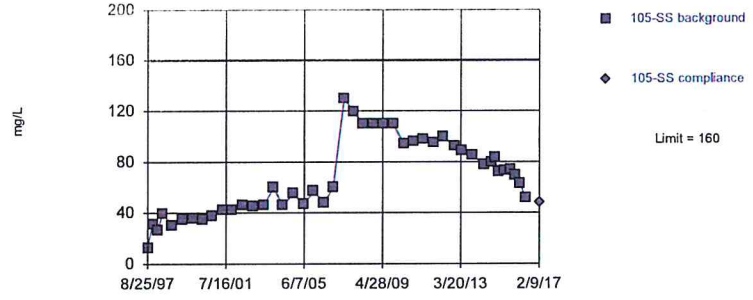
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=8, Std. Dev.=1.837, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9661, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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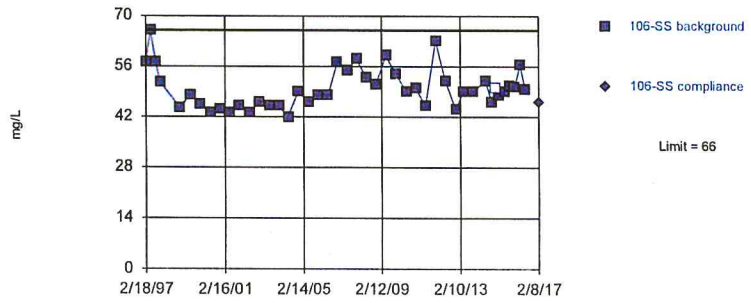
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.905, Std. Dev.=0.1071, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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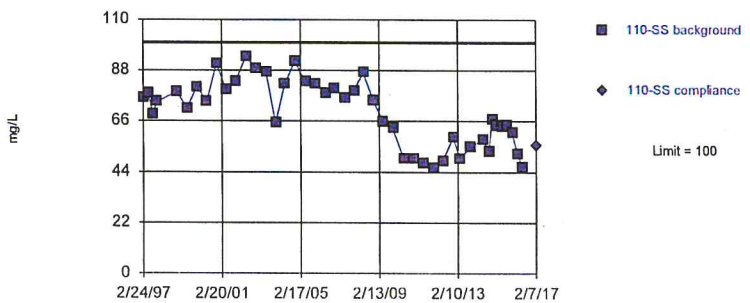
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation) Mean=5061, Std. Dev.=1022, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9428, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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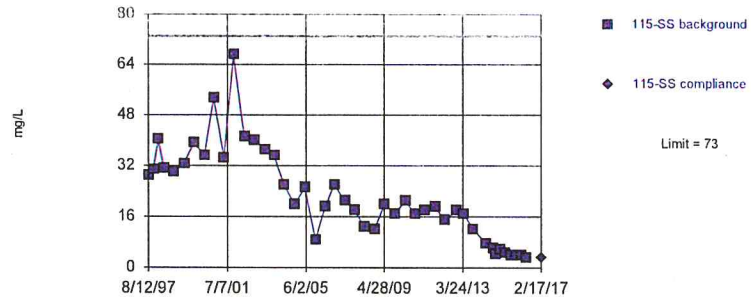
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=4.464, Std. Dev.=1.566, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9592, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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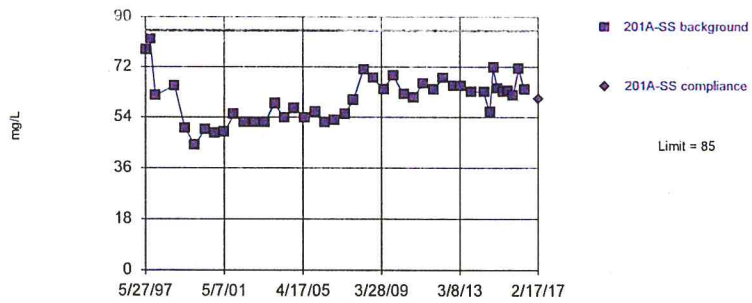
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.095, Std. Dev.=0.1351, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9785, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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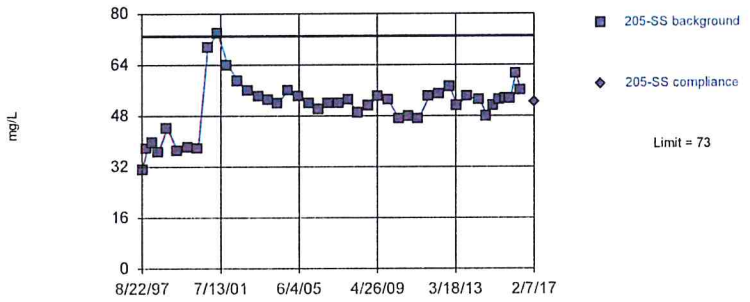
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=51.21, Std. Dev.=8.374, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.923. Kappa = 2.597 (n=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00908608. Rosner's outlier test was performed on the background data. One background outlier was removed: 109 (11/20/2014).

Constituent: Sulfate Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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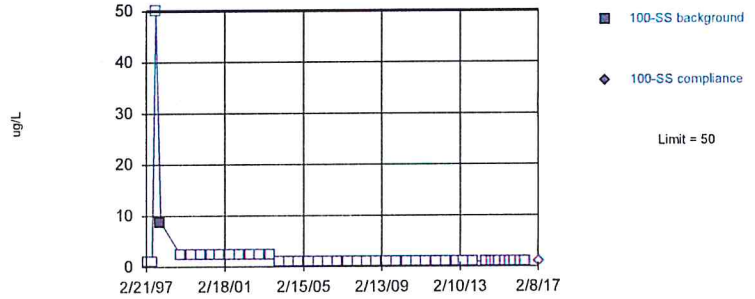
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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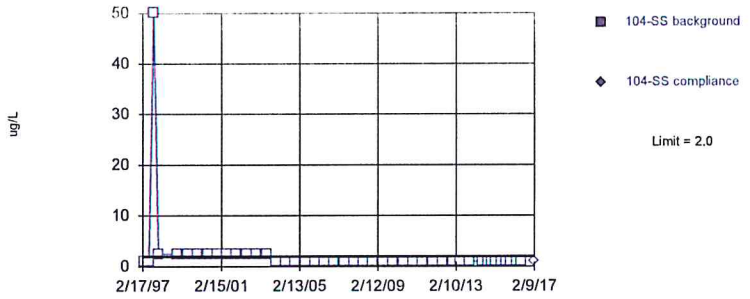
Hollow symbols indicate censored values.

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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

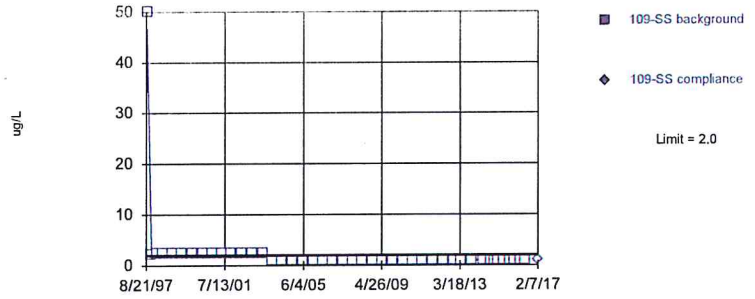
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

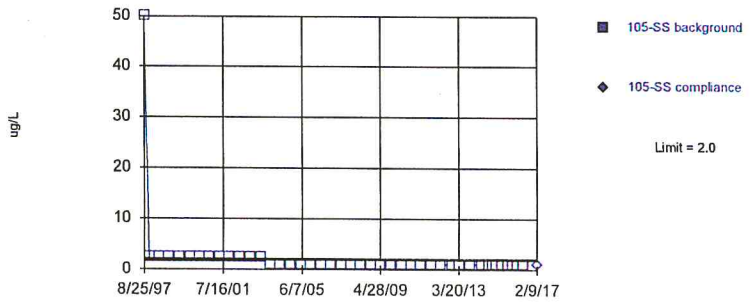
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

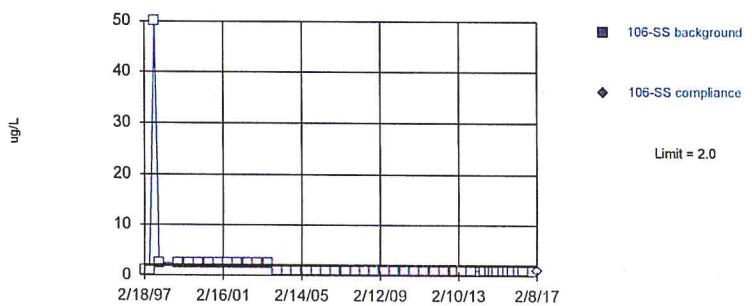
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

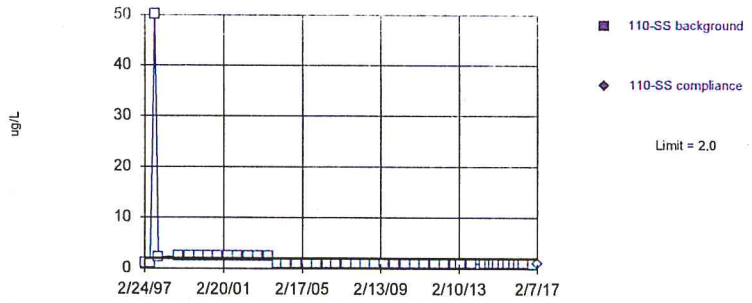
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

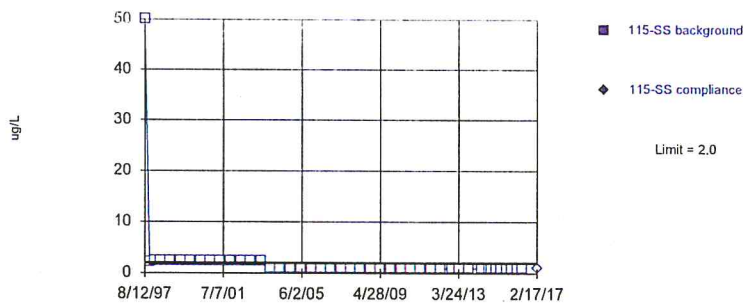
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

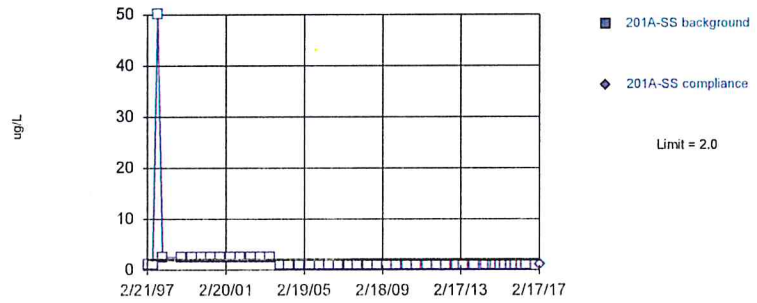
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

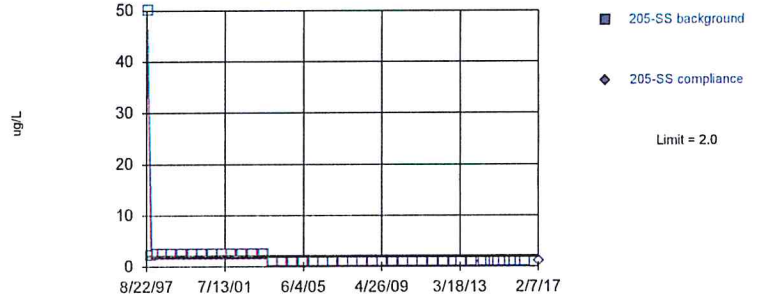
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 8:32 AM

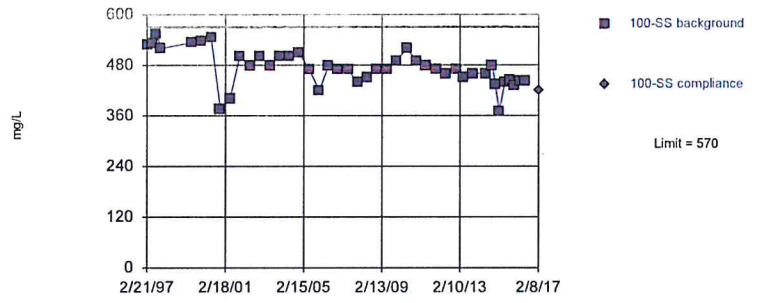
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=226209, Std. Dev.=39208, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9752, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 748 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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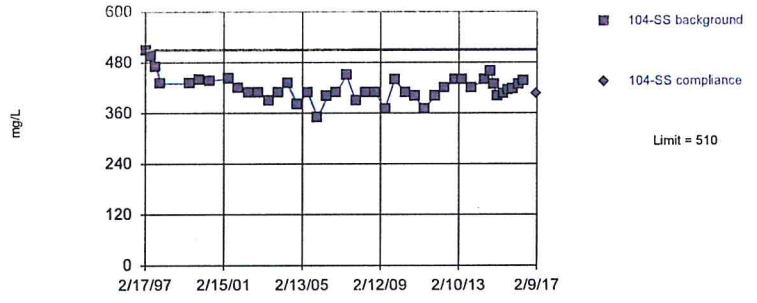
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.04, Std. Dev.=0.07178, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 664 (11/11/1998); 257 (11/13/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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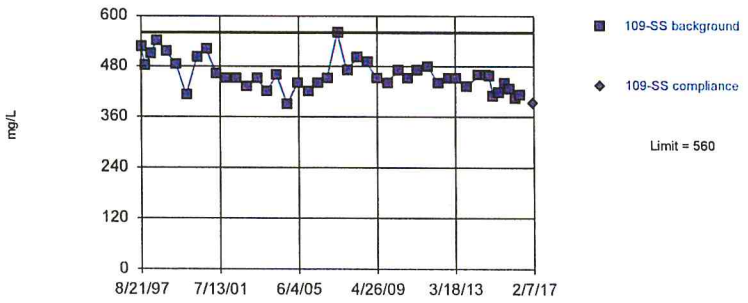
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.125, Std. Dev.=0.08127, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

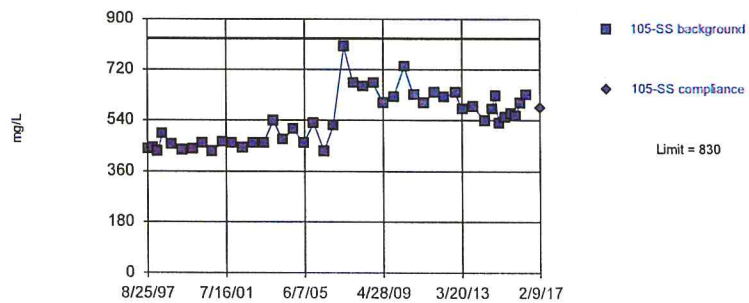
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.287, Std. Dev.=0.1666, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9286, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

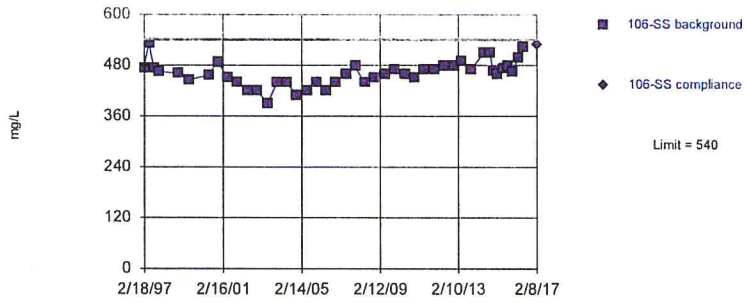
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=21.47, Std. Dev.=0.6873, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9796, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 244 (11/19/1999).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: [illegible] Bridgeton LF

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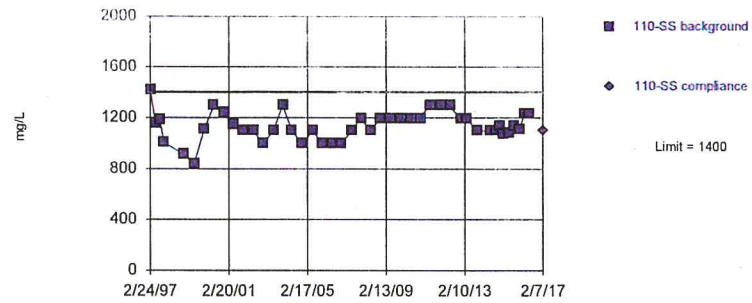
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1139, Std. Dev.=112.7, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9691, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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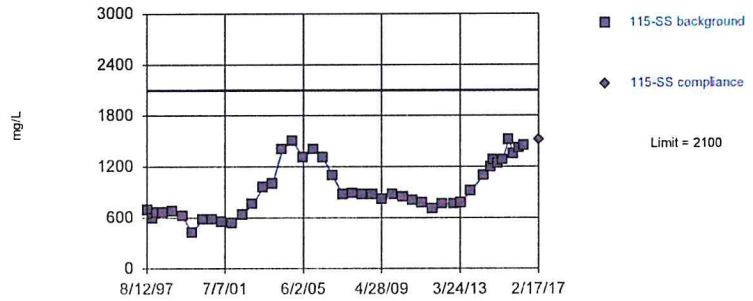
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.789, Std. Dev.=0.3329, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9466, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008609. 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 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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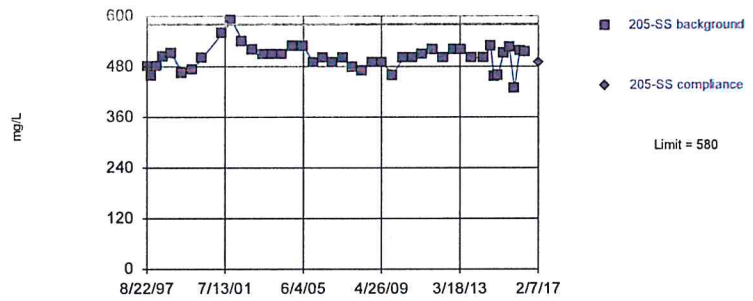
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.216, Std. Dev.=0.05828, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9751, critical = 0.923. Kappa = 2.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 611 (11/14/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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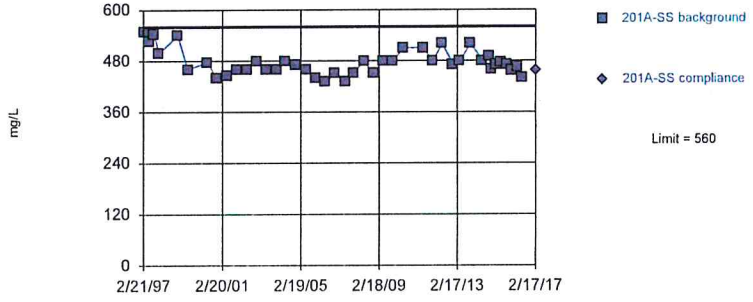
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.164, Std. Dev.=0.06169, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9327, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 356 (11/19/1999); 820 (11/10/2010).

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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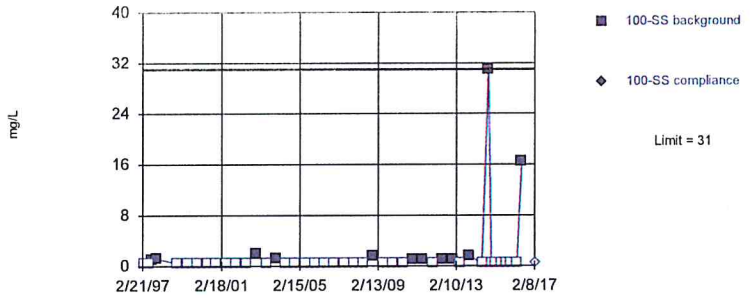
Hollow symbols indicate censored values.

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 44 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

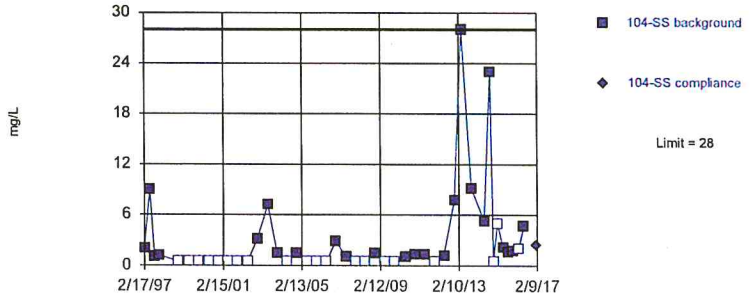
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

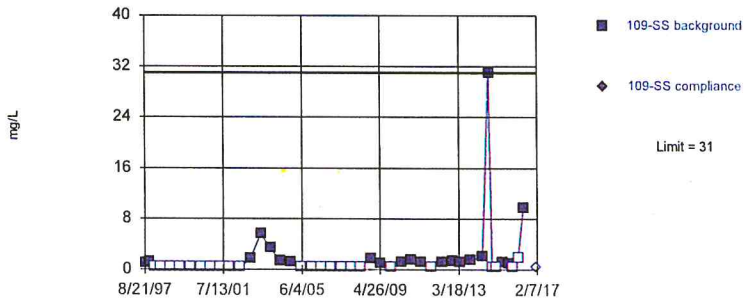
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

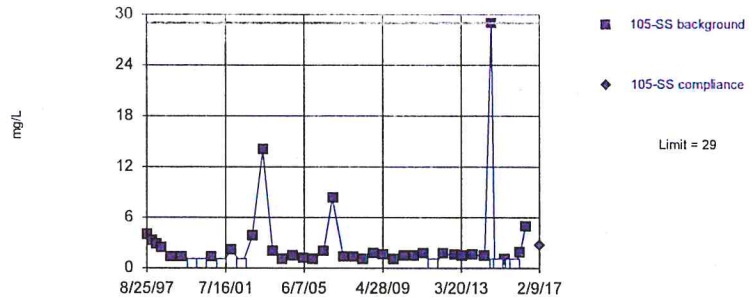
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 20.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (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 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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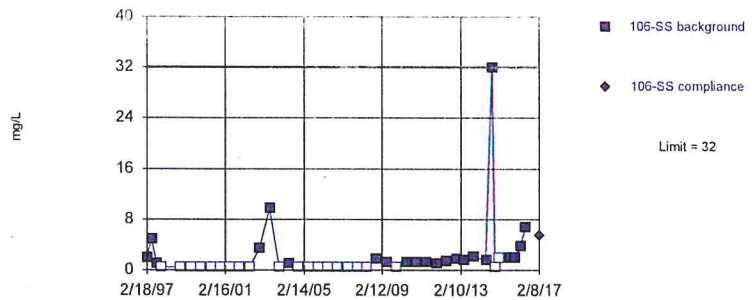
Hollow symbols indicate censored values.

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 44 background values. 47.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

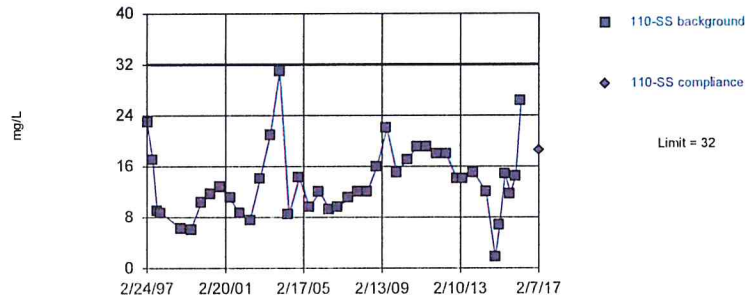
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental [illegible]

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=3.603, Std. Dev.=0.7866, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9868, critical = 0.922. Kappa = 2.604 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 66 (9/23/2014); 58.4 (6/6/2016).

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

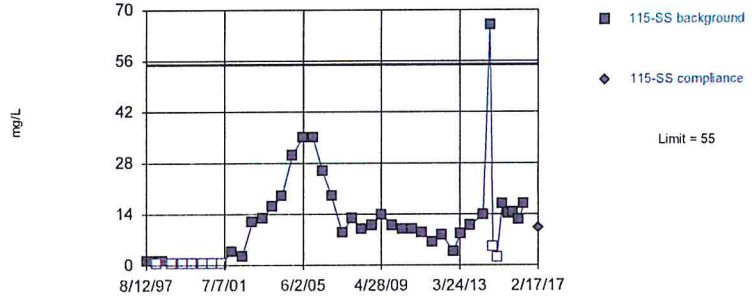
[illegible] 30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.853, Std. Dev.=0.7539, n=44, 20.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9307, critical = 0.924. Kappa = 2.591 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

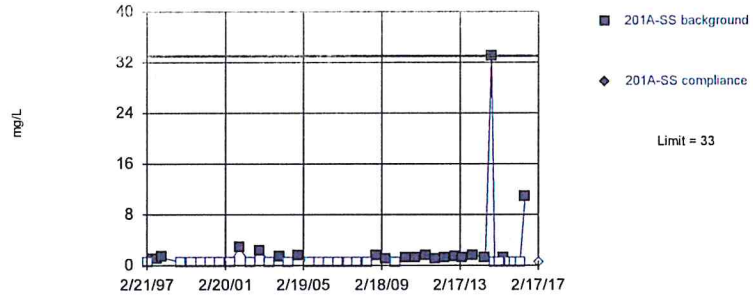
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 52.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

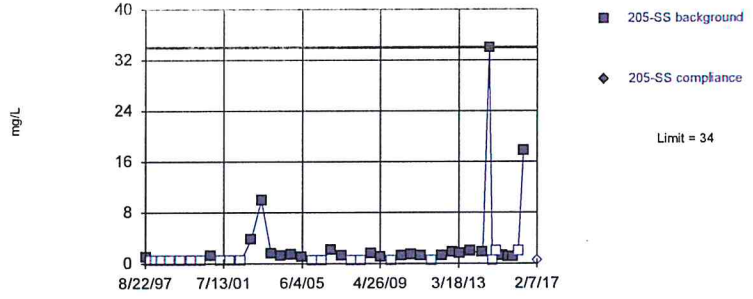
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

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 44 background values. 43.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:32 AM

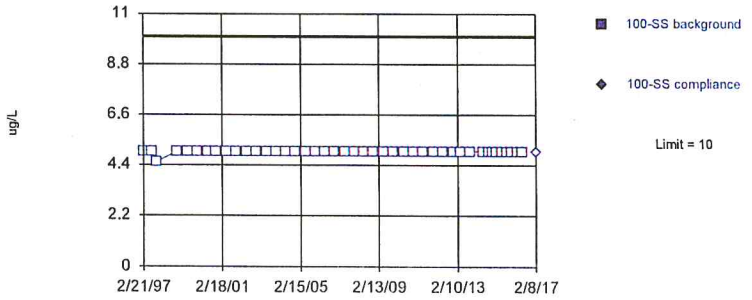
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

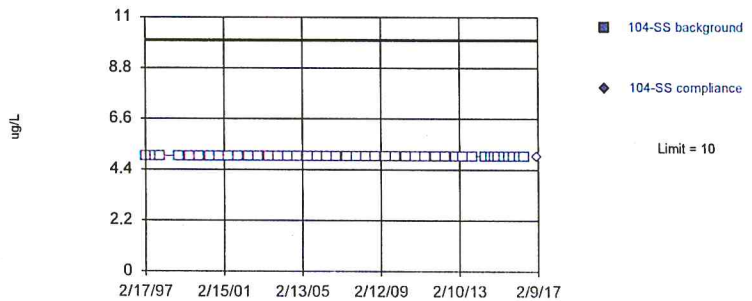
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

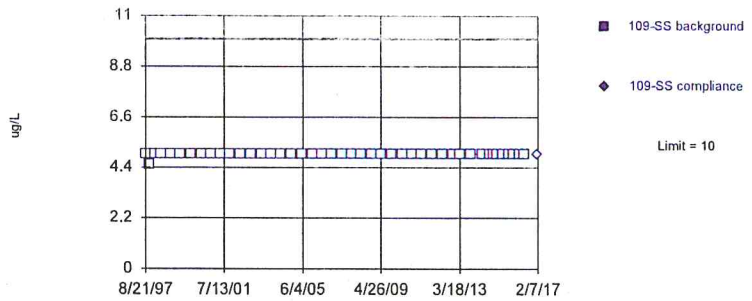
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

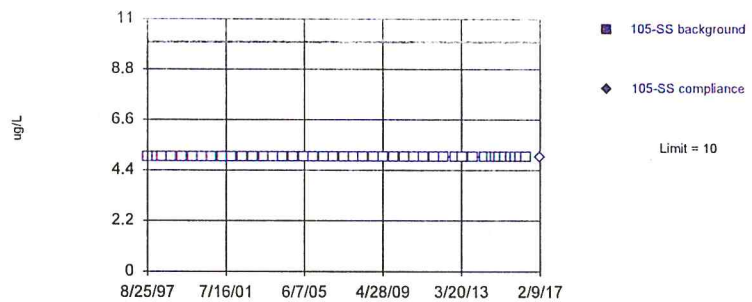
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

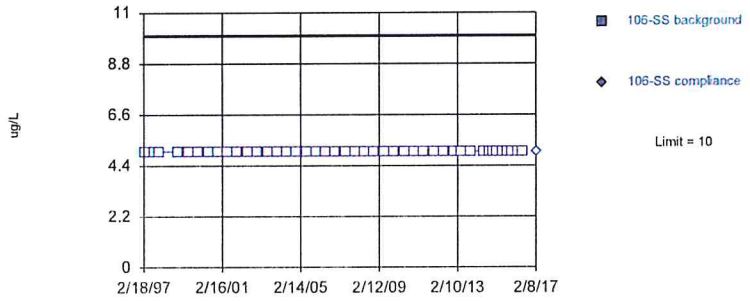
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

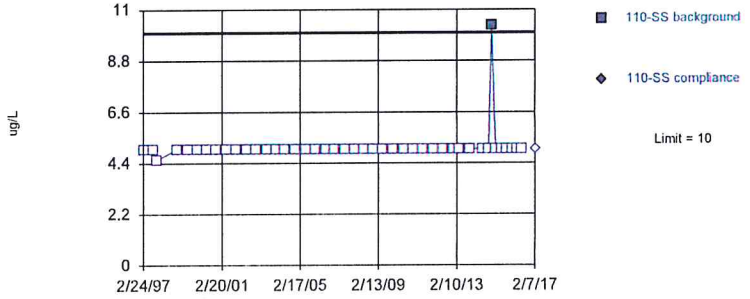
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

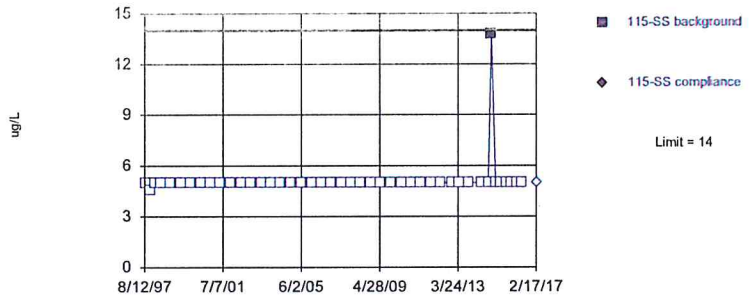
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

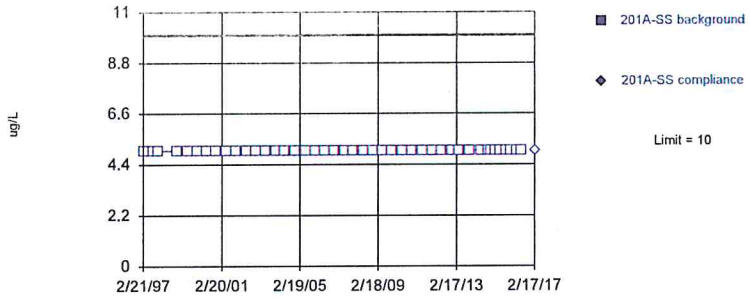
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate 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 = 44) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

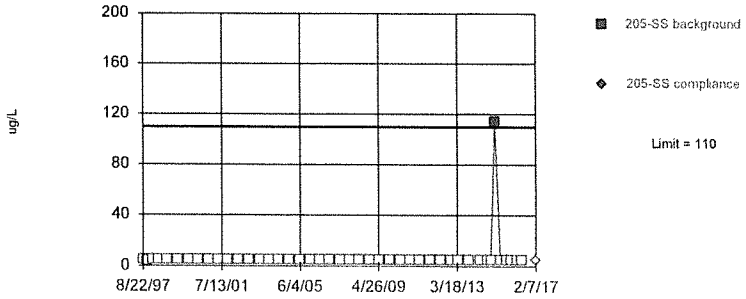
Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 3/14/2017 8:32 AM

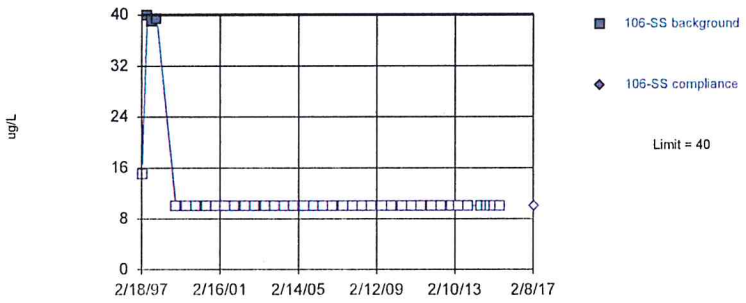
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software [illegible] Environmental Consulting, UG
Hollow symbols indicate [illegible] values.

Within Limit

Prediction Limit

Intrawell 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.

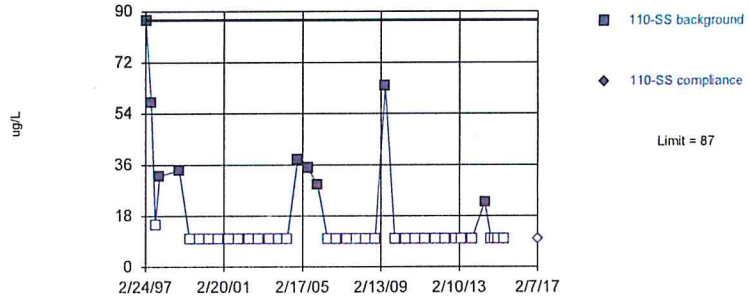
Constituent: Zinc Total Analysis Run 3/14/2017 8:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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.

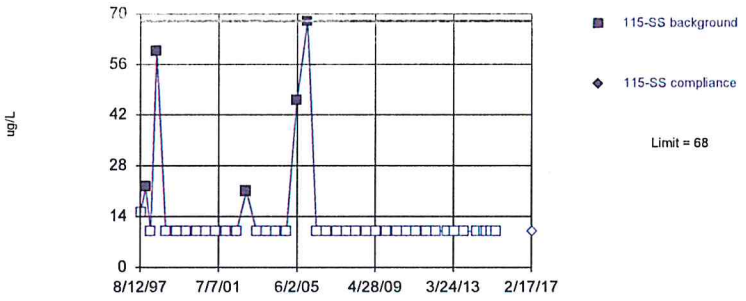
Constituent: Zinc Total Analysis Run 3/14/2017 8:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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.

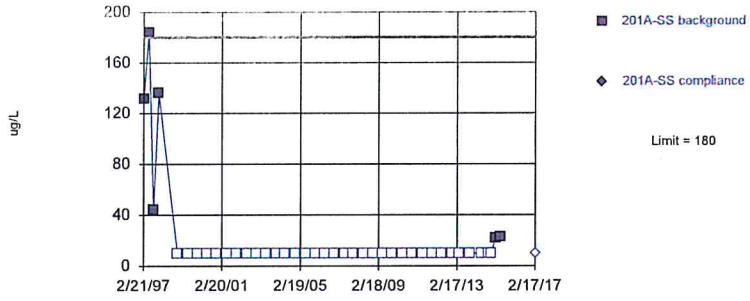
Constituent: Zinc Total Analysis Run 3/14/2017 8:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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.

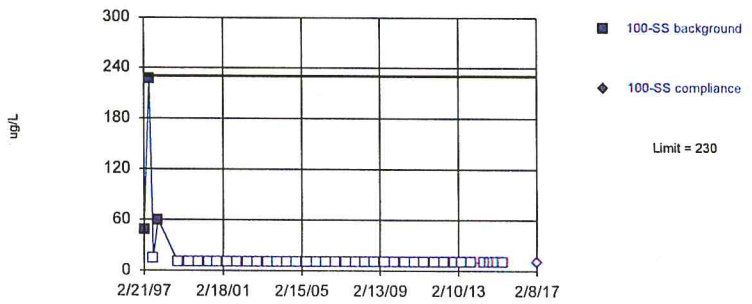
Constituent: Zinc Total Analysis Run 3/14/2017 8:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 3/14/2017 8:38 AM

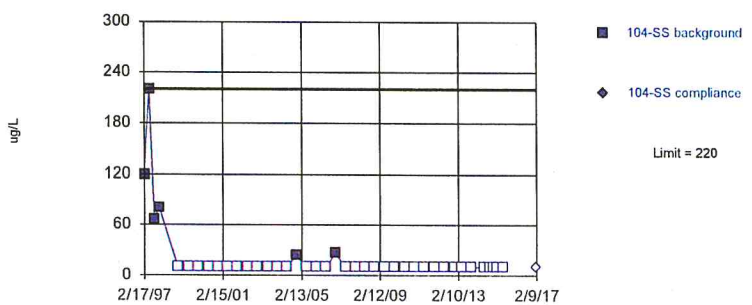
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 3/14/2017 8:38 AM

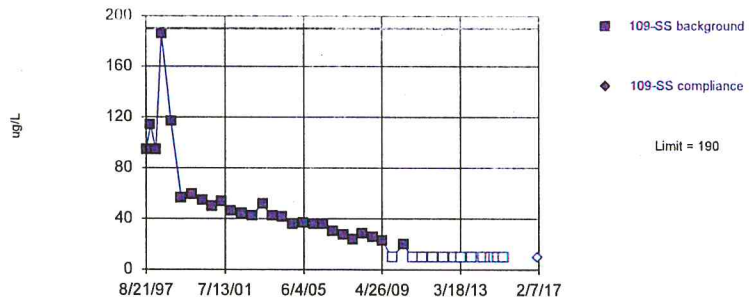
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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: Zinc Total Analysis Run 3/14/2017 8:38 AM

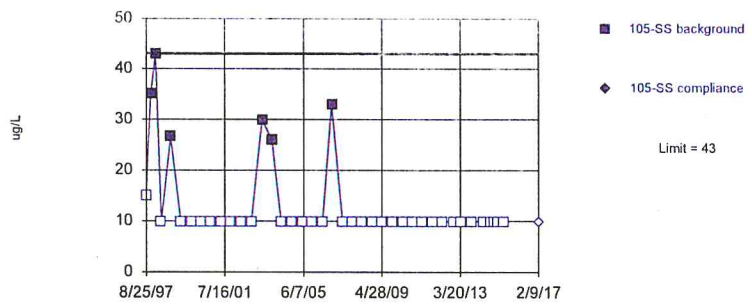
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 3/14/2017 8:38 AM

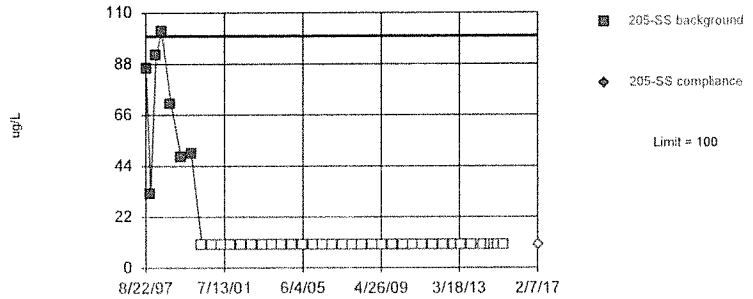
Bridgeton LF Data: Bridgeton LF

Sanitas™ v.9.5.38 Software licensed to Jett Environmental (Lansdale, PA)
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 3/14/2017 8:39 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 10:12 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	2/17/2017	6.2	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	2/9/2017	100	No	36	8075	1743	0	None	x^2	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	105-SS	190	n/a	2/9/2017	182	No	13	4.594	0.3338	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	110-SS	280	n/a	2/7/2017	266	No	22	42528	13153	0	None	x^2	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	115-SS	600	n/a	2/17/2017	505	No	35	228	139.9	0	None	No	0.00008608	Param Intra 1 of 2
Barium Total (ug/L)	205-SS	180	n/a	2/7/2017	141	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	2/8/2017	109	No	32	1.7e8	9.7e7	12.5	None	x^4	0.00008608	Param Intra 1 of 2
Boron Total (ug/L)	104-SS	160	n/a	2/9/2017	134	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	2/17/2017	467	No	20	n/a	n/a	55	n/a	n/a	0.004219	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	**105-SS**	**87000**	**n/a**	**2/9/2017**	**106000**	**Yes**	**11**	**11.08**	**0.07786**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Calcium Total (ug/L)	106-SS	110000	n/a	2/8/2017	104000	No	29	11.46	0.06699	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	110-SS	260000	n/a	2/7/2017	224000	No	20	8.6e15	2.9e15	0	None	x^3	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	115-SS	350000	n/a	2/17/2017	226000	No	36	11.89	0.3286	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	201A-SS	100000	n/a	2/17/2017	94900	No	22	85186	6232	0	None	No	0.00008608	Param Intra 1 of 2
Calcium Total (ug/L)	205-SS	100000	n/a	2/7/2017	98600	No	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	2/9/2017	4	No	33	n/a	n/a	48.48	n/a	n/a	0.001688	NP Intra (normality) 1 of 2
Chloride (mg/L)	**105-SS**	**26**	**n/a**	**2/9/2017**	**66.3**	**Yes**	**7**	**2.586**	**0.1213**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Chloride (mg/L)	**106-SS**	**17**	**n/a**	**2/8/2017**	**41**	**Yes**	**29**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.002152**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	110-SS	280	n/a	2/7/2017	187	No	28	176	36.15	0	None	No	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	115-SS	680	n/a	2/17/2017	463	No	37	13.59	4.687	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Chloride (mg/L)	201A-SS	4.0	n/a	2/17/2017	3.7	No	24	n/a	n/a	50	n/a	n/a	0.003083	NP Intra (normality) 1 of 2
Chloride (mg/L)	205-SS	50	n/a	2/7/2017	32.3	No	32	2.998	0.2584	0	None	x^(1/3)	0.00008608	Param Intra 1 of 2
Fluoride (mg/L)	109-SS	2.6	n/a	2/7/2017	2.1	No	23	4.319	0.8498	0	None	x^2	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	105-SS	510	n/a	2/9/2017	499	No	15	5.79	0.1385	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	106-SS	510	n/a	2/8/2017	471	No	29	20.59	0.6924	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	110-SS	1000	n/a	2/7/2017	895	No	19	6.2e8	1.8e8	0	None	x^3	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	115-SS	1600	n/a	2/17/2017	993	No	35	6.483	0.3251	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	201A-SS	500	n/a	2/17/2017	425	No	21	19.72	0.9201	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Hardness Total (mg/L)	205-SS	520	n/a	2/7/2017	476	No	23	8.0e15	3.9e15	0	None	x^6	0.00008608	Param Intra 1 of 2
Iron Total (ug/L)	**106-SS**	**1400**	**n/a**	**2/8/2017**	**2480**	**Yes**	**26**	**5.605**	**0.5835**	**0**	**None**	**ln(x)**	**0.00008608**	**Param Intra 1 of 2**
Iron Total (ug/L)	115-SS	7200	n/a	2/17/2017	3100	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	2/9/2017	49300	No	32	1.1e14	2.3e13	0	None	x^3	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	105-SS	47000	n/a	2/9/2017	56800	Yes	11	10.46	0.07764	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	106-SS	54000	n/a	2/8/2017	51000	No	25	10.69	0.07281	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	110-SS	100000	n/a	2/7/2017	81800	No	17	11.28	0.07957	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	115-SS	140000	n/a	2/17/2017	104000	No	37	11.23	0.2383	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	201A-SS	51000	n/a	2/17/2017	45600	No	13	10.57	0.08112	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Magnesium Total (ug/L)	205-SS	64000	n/a	2/7/2017	55800	No	17	224	9.563	0	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	110-SS	230	n/a	2/7/2017	154	No	10	30012	5451	0	None	x^2	0.00008608	Param Intra 1 of 2
Manganese Total (ug/L)	**115-SS**	**19**	**n/a**	**2/17/2017**	**76.5**	**Yes**	**11**	**8.983**	**2.739**	**9.091**	**None**	**No**	**0.00008608**	**Param Intra 1 of 2**
Nickel Total (ug/L)	115-SS	140	n/a	2/17/2017	74.5	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	2/17/2017	0.33	No	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	2/9/2017	6.71	No	35	1.983	0.05825	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	105-SS	8.3	6.7	2/9/2017	7.11	No	32	2.012	0.04035	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	106-SS	8.3	6.3	2/8/2017	7.02	No	31	1.98	0.05226	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	110-SS	7.7	6	2/7/2017	6.69	No	33	1.914	0.04822	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	201A-SS	8.5	6.4	2/17/2017	7.04	No	30	1.993	0.05282	0	None	ln(x)	0.00004304	Param Intra 1 of 2
pH [Field] (su)	205-SS	7.9	6.5	2/7/2017	6.99	No	32	1.969	0.03712	0	None	ln(x)	0.00004304	Param Intra 1 of 2
Phosphorus Total (mg/L)	115-SS	0.45	n/a	2/17/2017	0.17	No	31	0.2985	0.1361	12.9	None	sqrt(x)	0.00008608	Param Intra 1 of 2
Sodium Total (ug/L)	105-SS	50000	n/a	2/9/2017	41500	No	29	10.89	0.1457	0	None	ln(x)	0.00008608	Param Intra 1 of 2

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 10:12 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sodium Total (ug/L)	**106-SS**	**17000**	**n/a**	**2/8/2017**	**26600**	**Yes**	**26**	**1.7e8**	**4.0e7**	**0**	**None**	**x^2**	**0.00008608**	**Param Intra 1 of 2**
Sodium Total (ug/L)	115-SS	460000	n/a	2/17/2017	176000	No	35	10.78	0.8461	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	105-SS	1100	n/a	2/9/2017	1087	No	22	813.5	87.59	0	None	No	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	110-SS	2200	n/a	2/7/2017	1930	No	23	1.9e16	1.0e16	0	None	x^5	0.00008608	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	115-SS	3500	n/a	2/17/2017	2460	No	36	7.284	0.335	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Sulfate (mg/L)	**105-SS**	**47**	**n/a**	**2/9/2017**	**47.6**	**Yes**	**8**	**40346**	**14371**	**0**	**None**	**x^3**	**0.00008608**	**Param Intra 1 of 2**
Sulfate (mg/L)	201A-SS	86	n/a	2/17/2017	60.4	No	37	4.083	0.141	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**105-SS**	**540**	**n/a**	**2/9/2017**	**583**	**Yes**	**20**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004219**	**NP Intra (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	115-SS	1800	n/a	2/17/2017	1520	No	37	6.71	0.3007	0	None	ln(x)	0.00008608	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SS	32	n/a	2/8/2017	5.5	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	2/7/2017	0.5ND	No	34	n/a	n/a	47.06	n/a	n/a	0.001587	NP Intra (normality) 1 of 2

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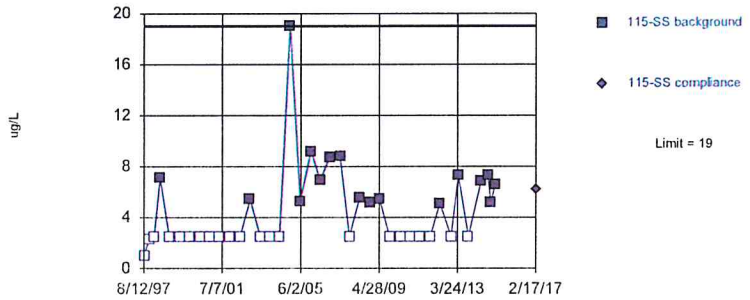
Hollow symbols indicate censored values.

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 = 0.004966. Individual comparison alpha = 0.001210 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 3/14/2017 9:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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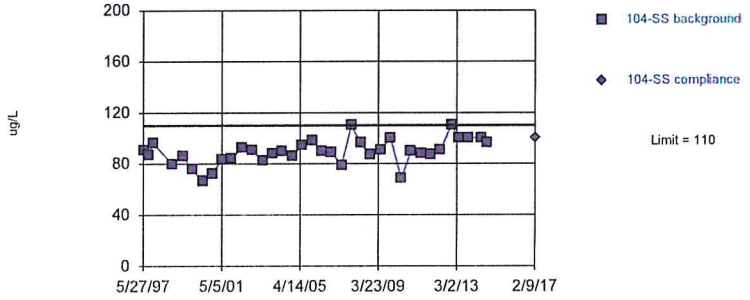
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8075, Std. Dev.=1743, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 3/14/2017 9:25 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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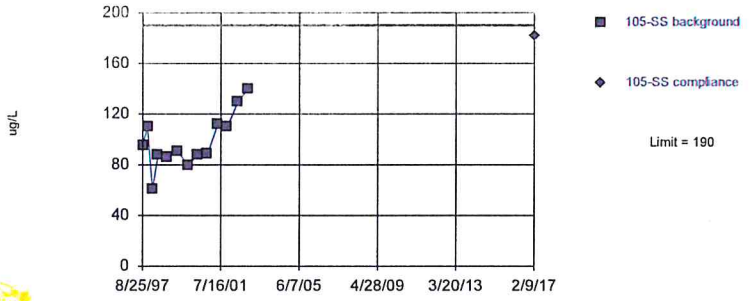
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=4.594, Std. Dev.=0.3338, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9537, critical = 0.866. Kappa = 3.446 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 9:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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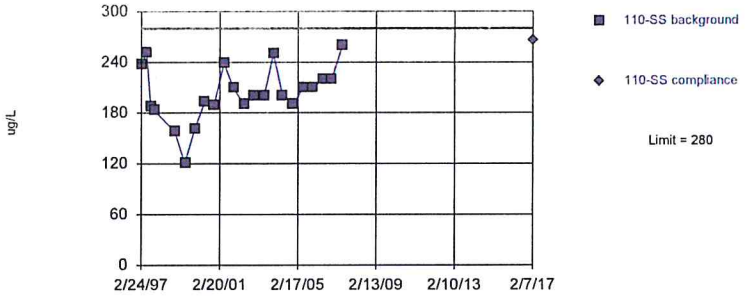
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=42528, Std. Dev.=13153, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9665, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 9:26 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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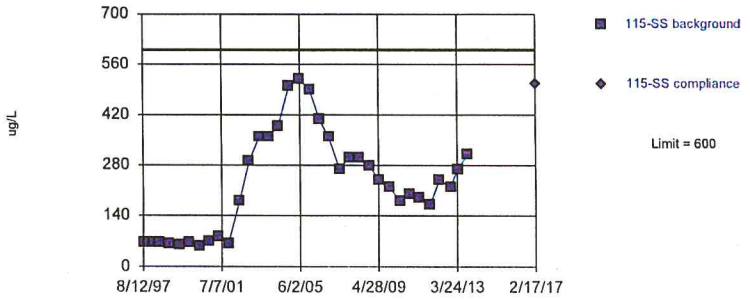
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=228, Std. Dev.=139.9, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 9:27 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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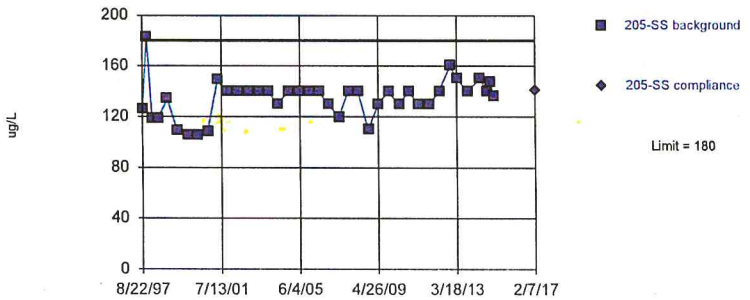
Within Limit

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 20 background values. Well-constituent pair annual alpha = 0.004863. 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 3/14/2017 9:27 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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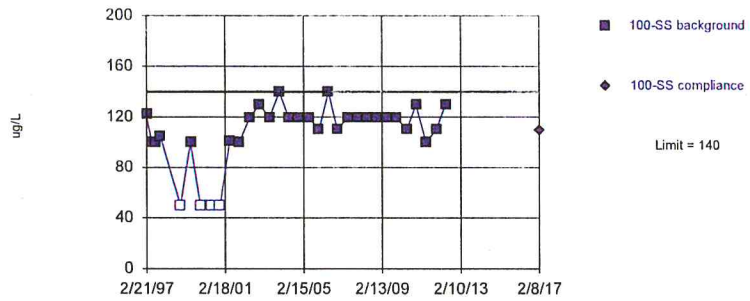
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=1.7e8, Std. Dev.=9.7e7, n=32, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 9:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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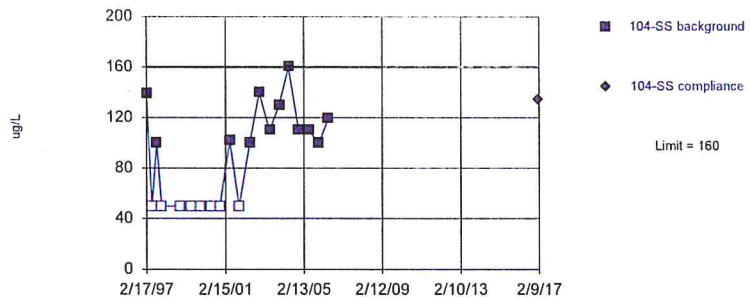
Hollow symbols indicate censored values.

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 3/14/2017 9:32 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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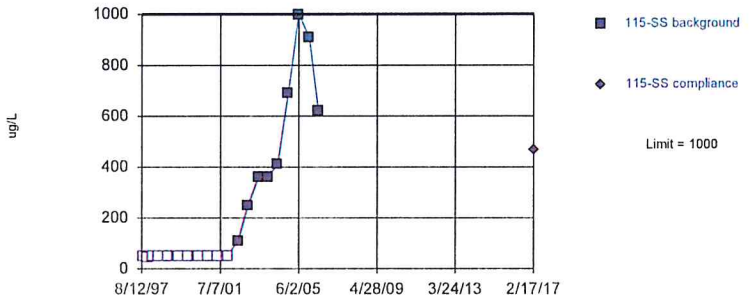
Hollow symbols indicate censored values.

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 20 background values. 55% 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 3/14/2017 9:33 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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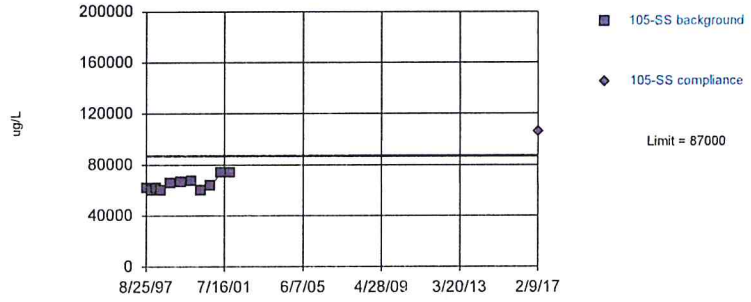
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.08, Std. Dev.=0.07786, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8783, critical = 0.85. Kappa = 3.728 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 3/14/2017 9:33 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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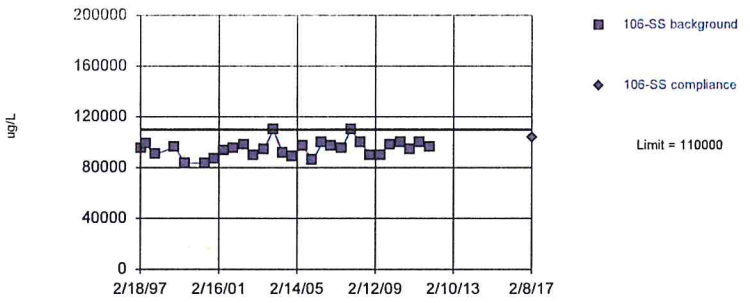
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.06699, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 9000 (11/19/1999).

Constituent: Calcium Total Analysis Run 3/14/2017 9:33 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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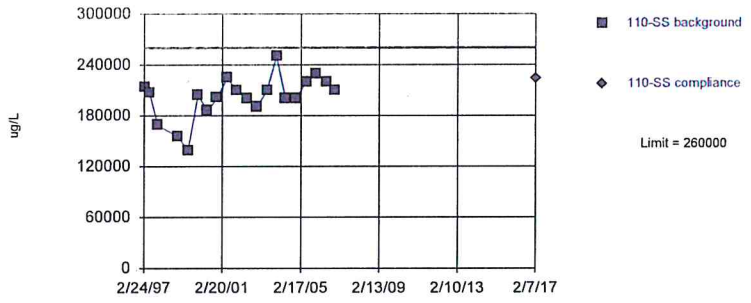
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.6e15, Std. Dev.=2.9e15, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.868. Kappa = 2.957 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 91000 (8/22/1997).

Constituent: Calcium Total Analysis Run 3/14/2017 9:34 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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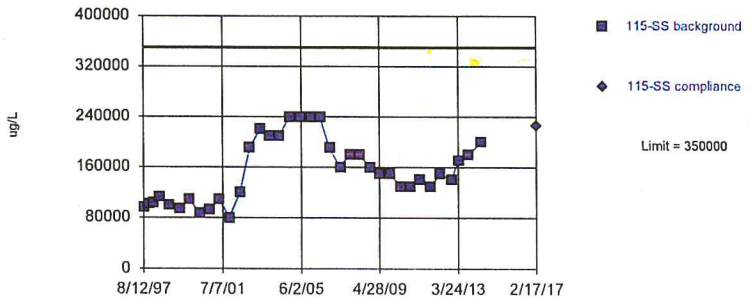
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.89, Std. Dev.=0.3286, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 3/14/2017 9:34 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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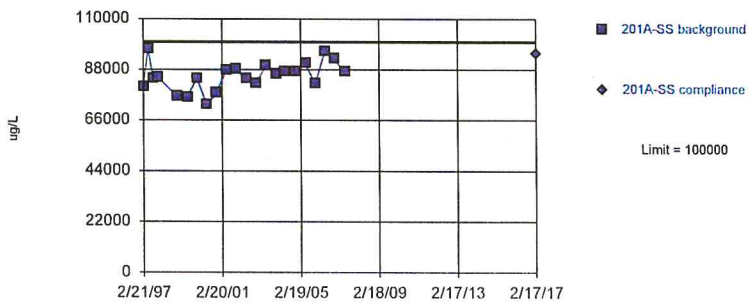
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=85186, Std. Dev.=6232, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9801, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 3/14/2017 9:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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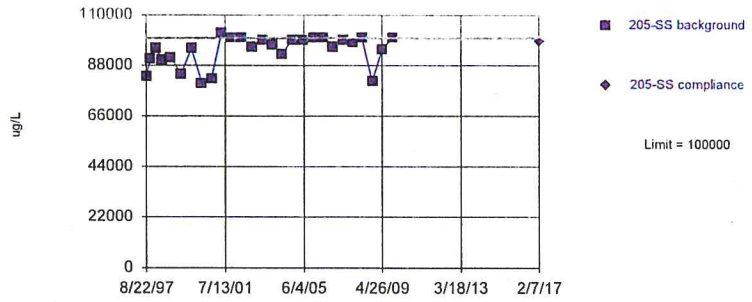
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 3/14/2017 9:35 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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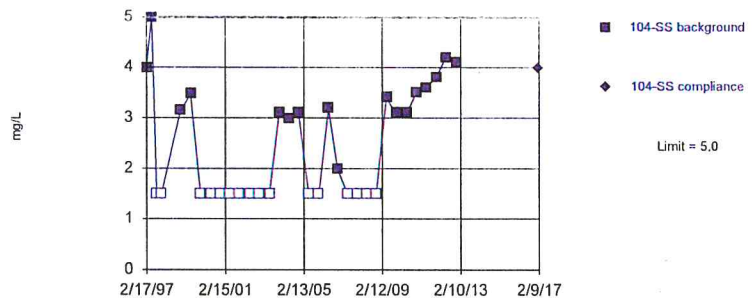
Hollow symbols indicate censored values.

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 3/14/2017 9:36 AM

Bridgeton LF [illegible] Bridgeton LF

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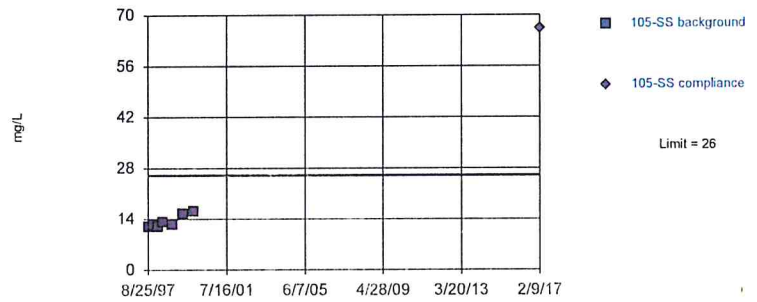
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.586, Std. Dev.=0.1213, n=7. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8516, critical = 0.838. Kappa = 5.42 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 3/14/2017 9:36 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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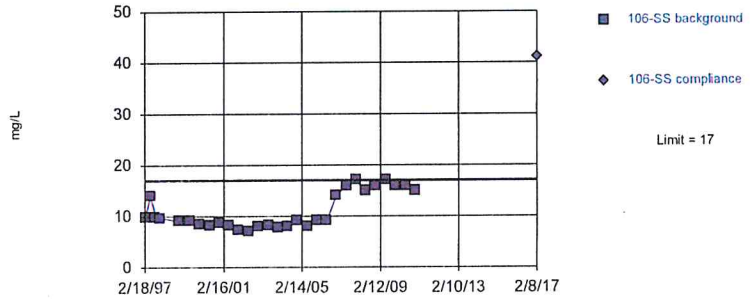
Exceeds Limit

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 3/14/2017 9:37 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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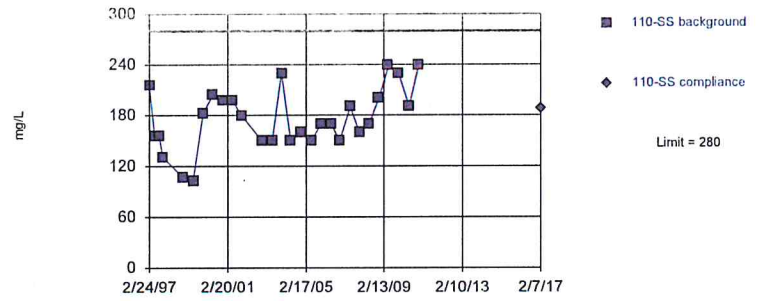
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=176, Std. Dev.=36.15, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9609, critical = 0.896. Kappa = 2.759 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: <3 (5/21/2002).

Constituent: Chloride Analysis Run 3/14/2017 9:37 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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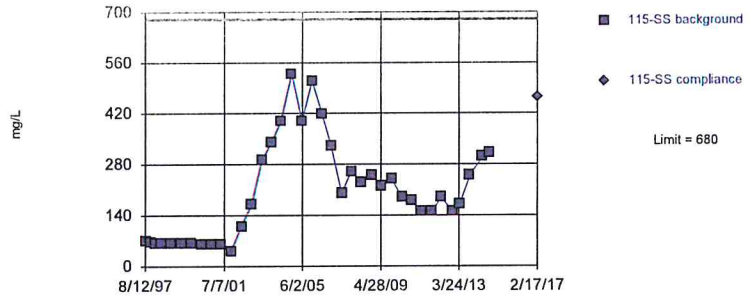
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=13.59, Std. Dev.=4.687, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 3/14/2017 9:38 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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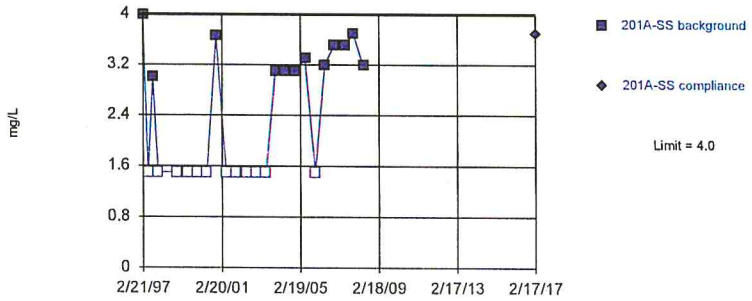
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 50% NDs. Well-constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.003083 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 9:38 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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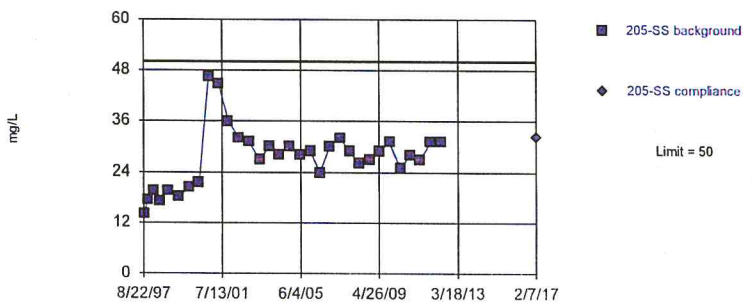
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.998, Std. Dev.=0.2524, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9458, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 3/14/2017 9:38 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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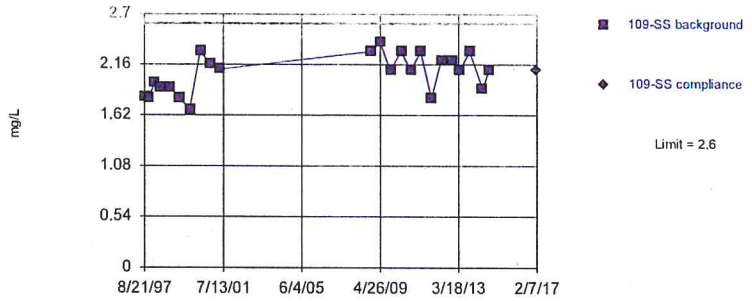
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.319, Std. Dev.=0.8498, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9363, critical = 0.881. Kappa = 2.87 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 3/14/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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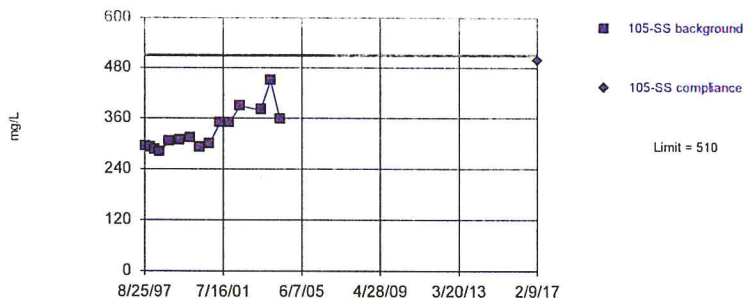
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.79, Std. Dev.=0.1385, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8889, critical = 0.881. Kappa = 3.25 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 9:39 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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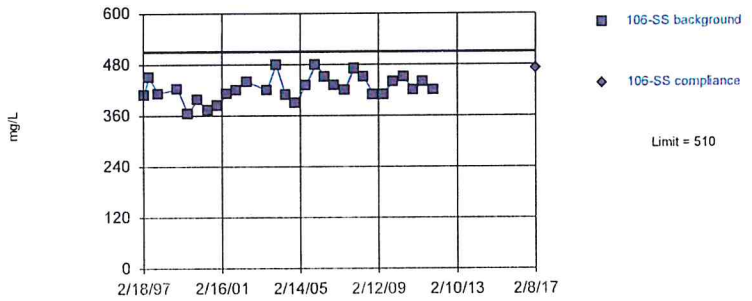
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=20.59, Std. Dev.=0.6924, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, critical = 0.898. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/25/1997); 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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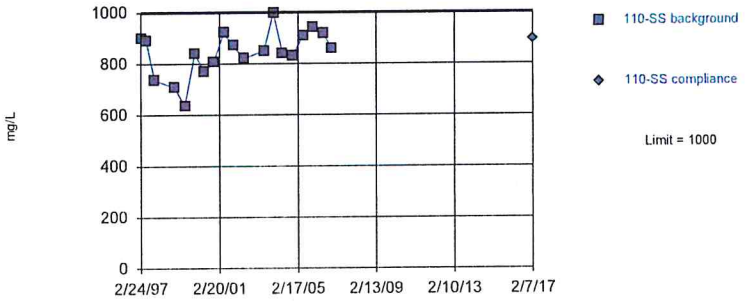
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6.2e8, Std. Dev.=1.8e8, n=19. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9879, critical = 0.901. Kappa = 3.006 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. Two background outliers were removed: 437 (8/22/1997); 270 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 9:40 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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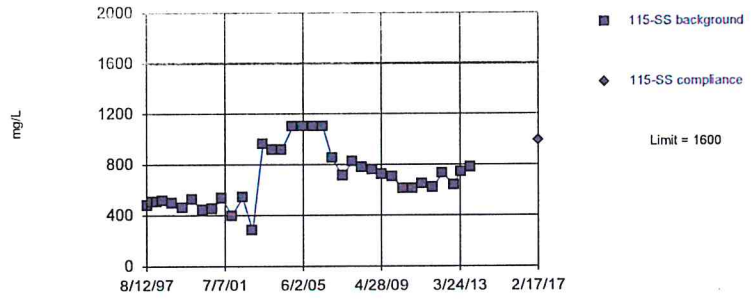
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.483, Std. Dev.=0.3251, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Hardness Total Analysis Run 3/14/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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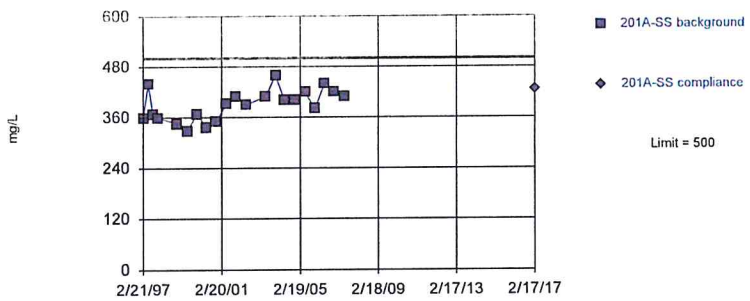
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=19.72, Std. Dev.=0.9201, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9763, critical = 0.873. Kappa = 2.928 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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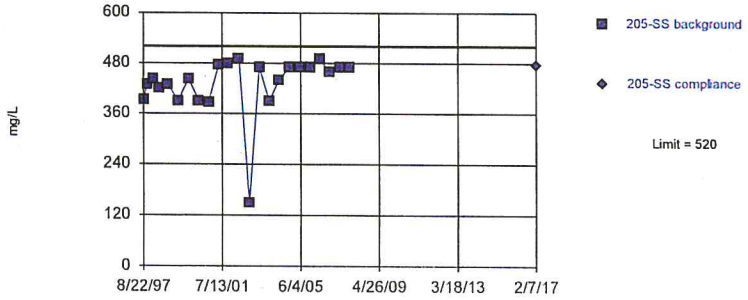
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=8.0e15, Std. Dev.=3.0e15, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.821. Kappa = 2.87 (c=34, w=0, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 3/14/2017 9:41 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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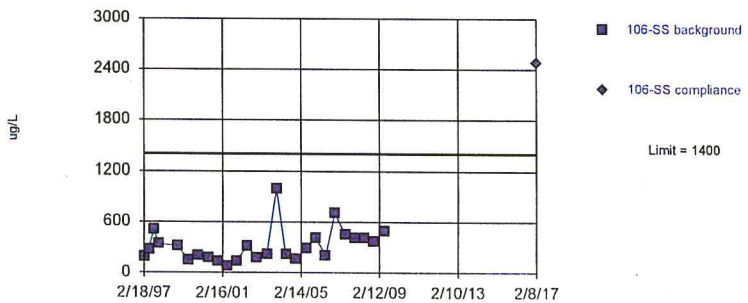
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.005, Std. Dev.=0.5835, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9865, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 3/14/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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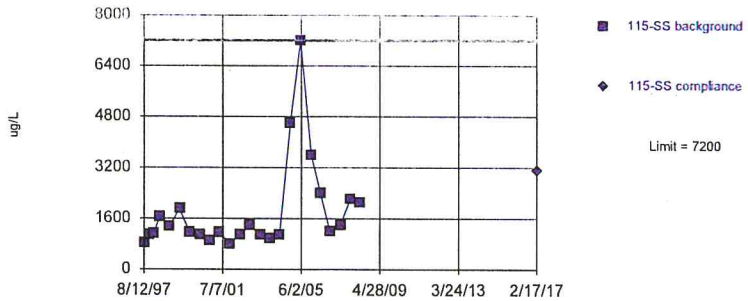
Within Limit

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 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 3/14/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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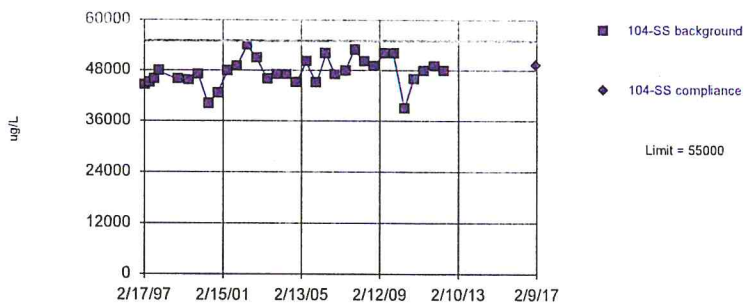
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e14, Std. Dev.=2.3e13, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.973, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 9:42 AM

Bridgeton LF Client: RSI Data: Bridgeton

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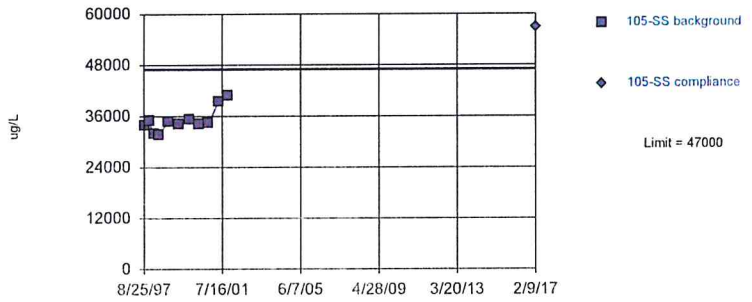
Exceeds Limit

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 = 0.9517, critical = 0.85. Kappa = 3.723 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 9:46 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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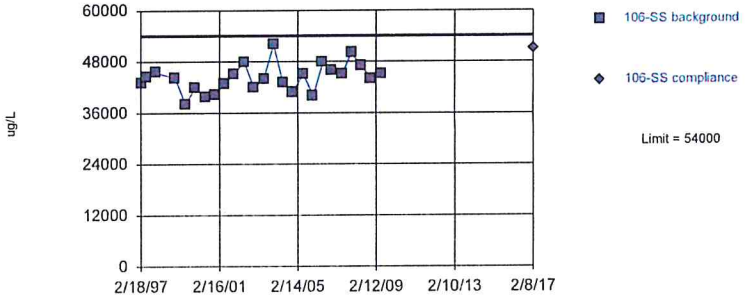
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.69, Std. Dev.=0.07281, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.888. Kappa = 2.812 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 3/14/2017 9:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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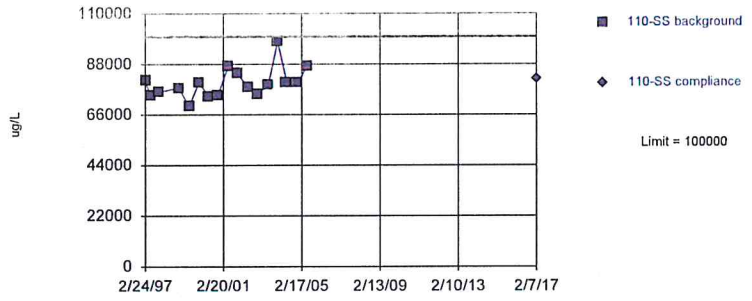
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.28, Std. Dev.=0.07957, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9293, critical = 0.892. Kappa = 3.104 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 51000 (8/22/1997).

Constituent: Magnesium Total Analysis Run 3/14/2017 9:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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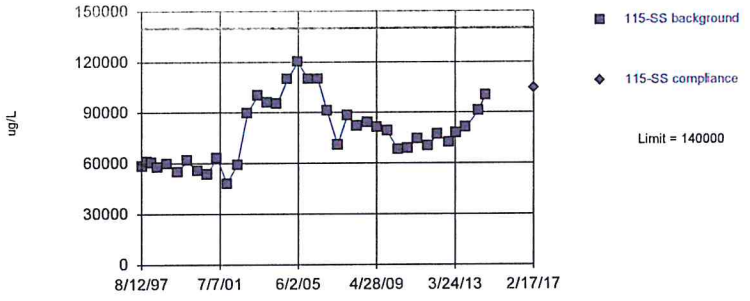
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.23, Std. Dev.=0.2383, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9667, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 9:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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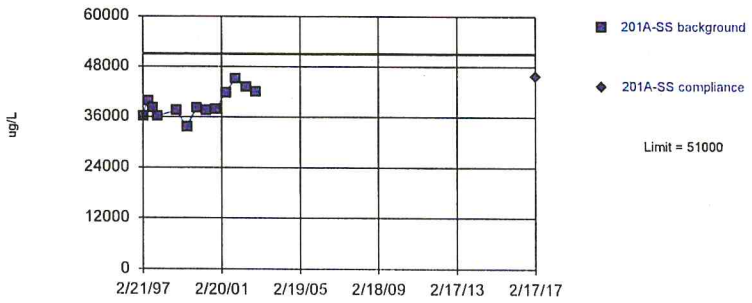
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.57, Std. Dev.=0.08112, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9611, critical = 0.866. Kappa = 3.446 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 9:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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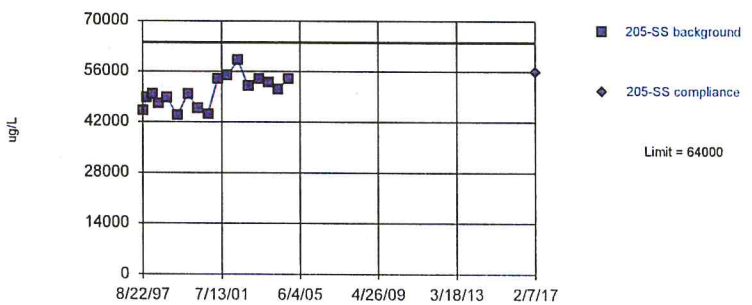
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=224, Std. Dev.=9.562, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9653, critical = 0.892. Kappa = 3.104 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 3/14/2017 9:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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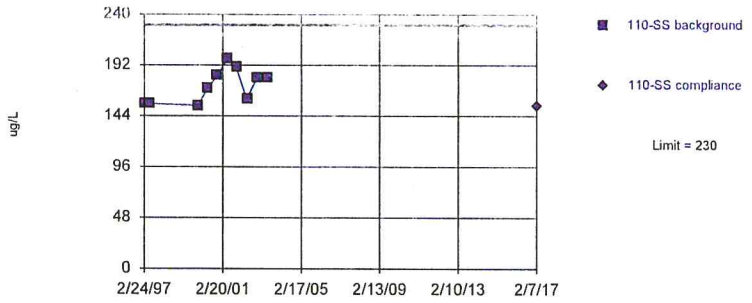
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=30012, Std. Dev.=5451, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9116, critical = 0.842. Kappa = 3.913 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. Four background outliers were removed: 20 (8/22/1997); 101 (11/8/1997); 70.8 (11/13/1998); 54.5 (5/18/1999).

Constituent: Manganese Total Analysis Run 3/14/2017 9:49 AM

Bridgeton LF Client: RSI Data: Bridgeton

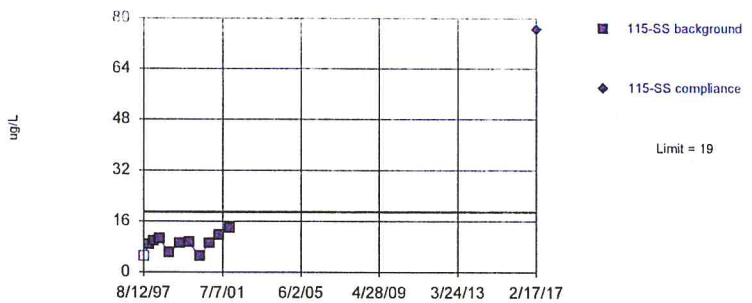
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.983, Std. Dev.=2.739, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9428, critical = 0.85. Kappa = 3.728 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 47 (5/21/2002).

Constituent: Manganese Total Analysis Run 3/14/2017 9:49 AM

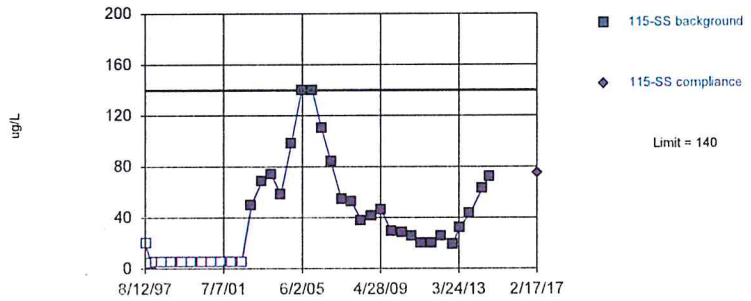
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 37 background values. 32.43% NDs. Well-constituent pair annual alpha = 0.005101. 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 3/14/2017 9:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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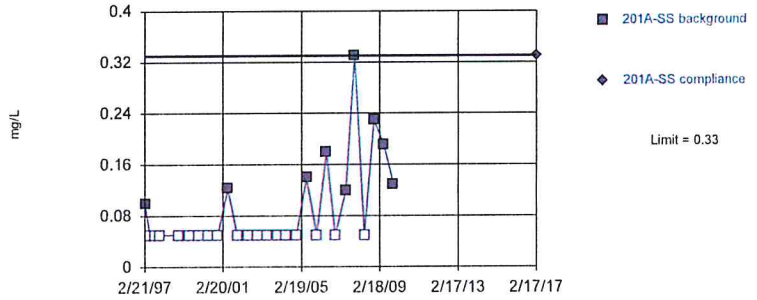
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 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 3/14/2017 9:50 AM

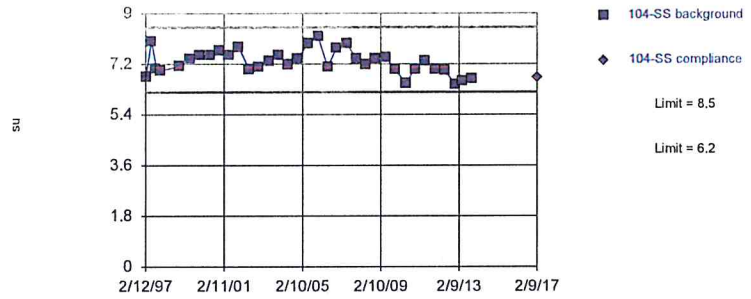
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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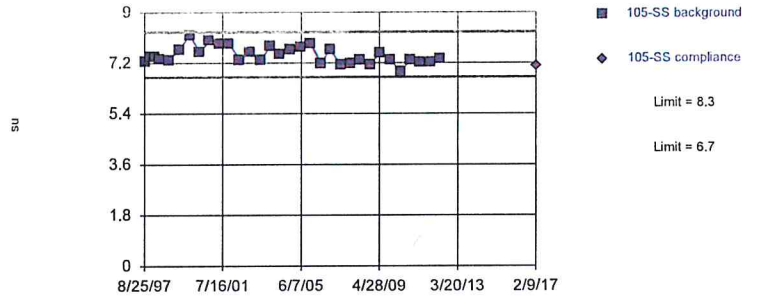
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.012, Std. Dev.=0.04035, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.961, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:51 AM

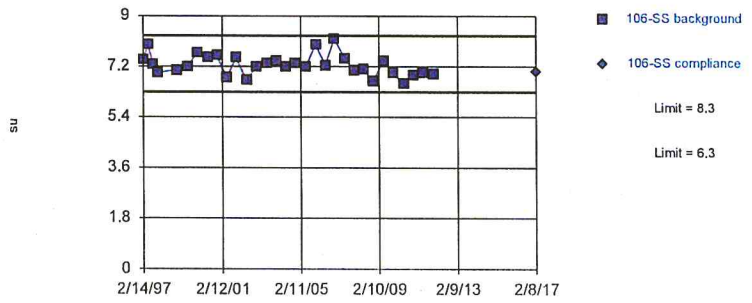
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.98, Std. Dev.=0.05226, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9745, critical = 0.902. Kappa = 2.712 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:51 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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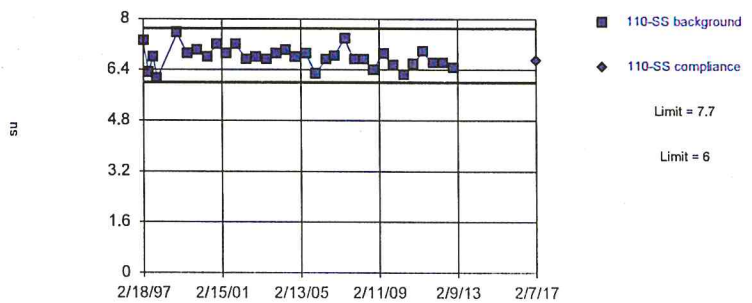
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.914, Std. Dev.=0.04822, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9795, critical = 0.896. Kappa = 2.688 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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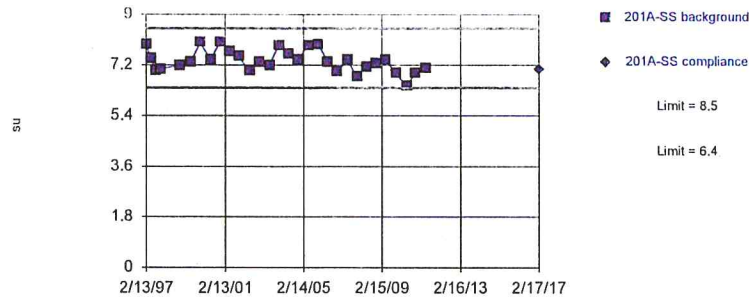
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.993, Std. Dev.=0.05282, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.9. Kappa = 2.724 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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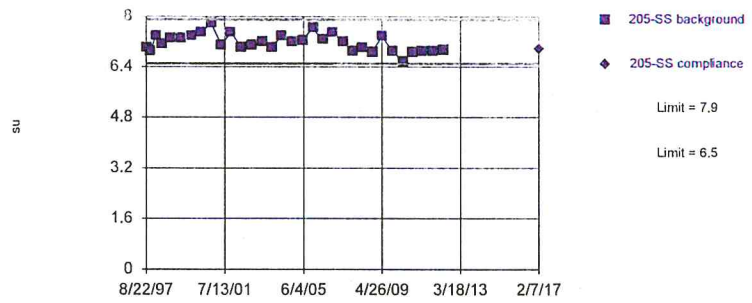
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.969, Std. Dev.=0.03712, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.904. Kappa = 2.7 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 9:52 AM

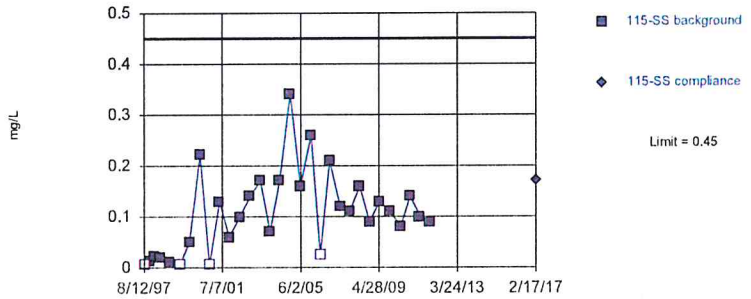
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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=0.2985, Std. Dev.=0.1361, n=31, 12.9% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.902 Kappa = 2.712 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 3/14/2017 10:02 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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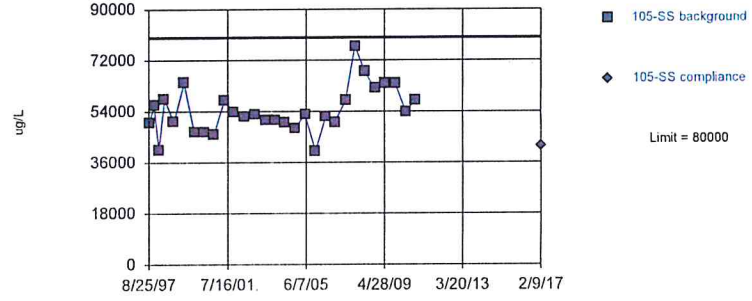
Within Limit

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 = 0.896. Kappa = 2.741 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 10:05 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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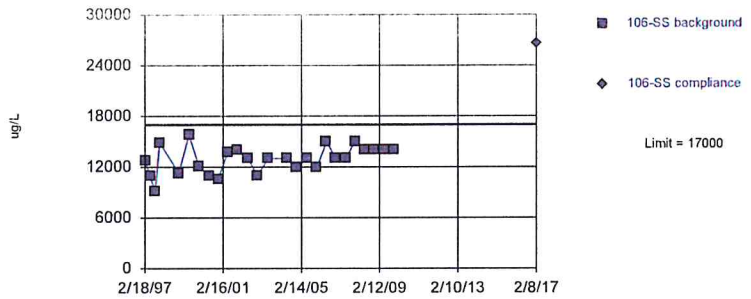
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.7e8, Std. Dev.=4.0e7, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.891. Kappa = 2.795 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 20000 (11/20/2003).

Constituent: Sodium Total Analysis Run 3/14/2017 10:05 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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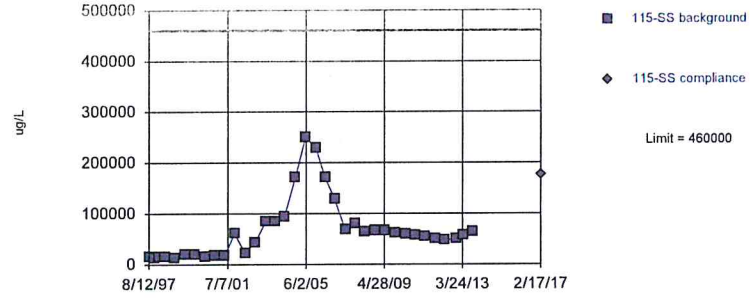
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.78, Std. Dev.=0.8461, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.91. Kappa = 2.664 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 10:05 AM

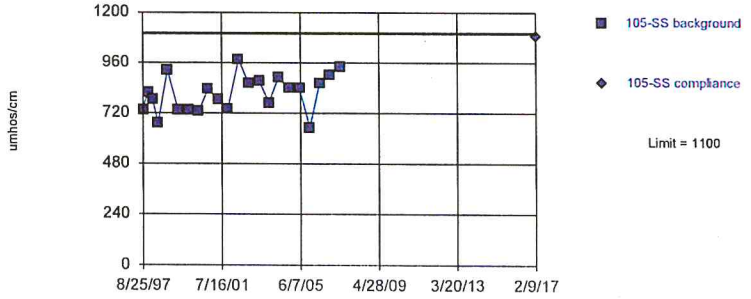
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=813.5, Std. Dev.=87.59, n=22. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2.899 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 10:06 AM

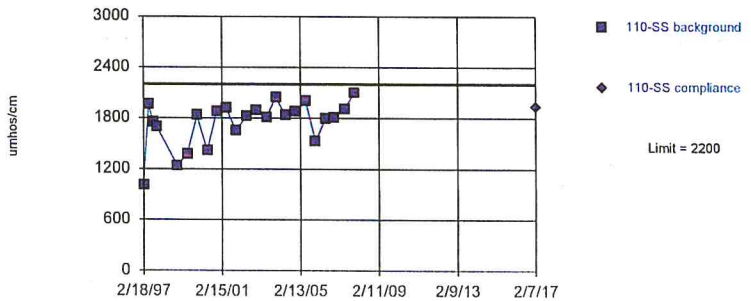
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^5 transformation): Mean=1.9e16, Std. Dev.=1.9e16, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.881. Kappa = 2.87 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 10:06 AM

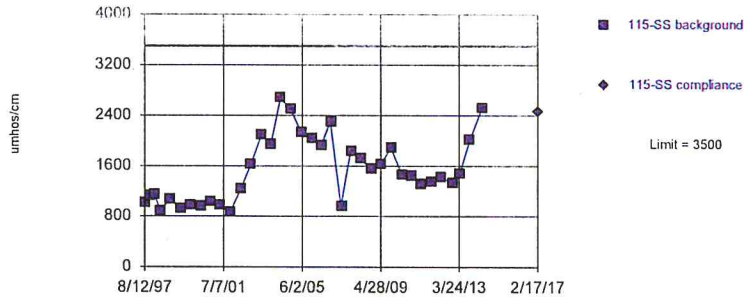
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.284, Std. Dev.=0.335, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9415, critical = 0.912. Kappa = 2.654 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent Specific Conductance [Field] Analysis Run 3/14/2017 10:07 AM

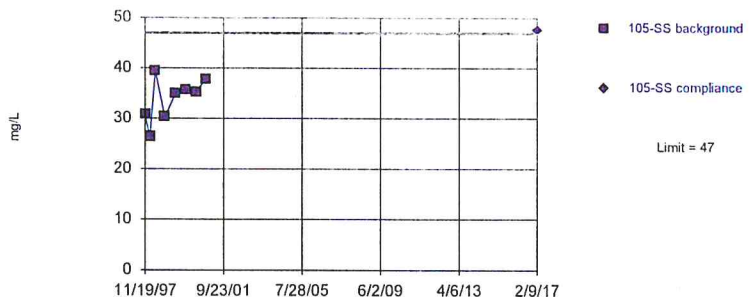
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=40346, Std. Dev.=14371, n=8. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9665, critical = 0.851. Kappa = 4.597 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Dixon's outlier test was performed on the background data. One background outlier was removed: 13 (8/25/1997).

Constituent: Sulfate Analysis Run [illegible] 10:07 AM

Bridgeton LF Client: RSI [illegible]

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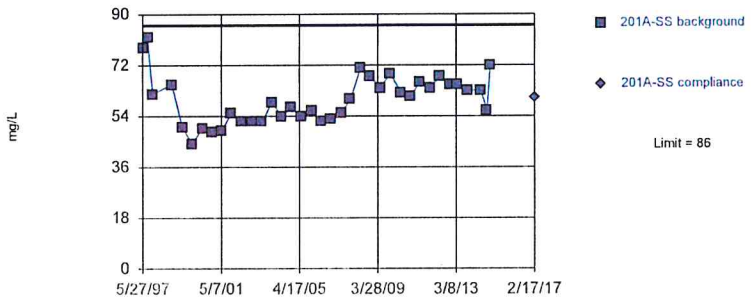
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.083, Std. Dev.=0.141, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9812, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

Constituent: Sulfate Analysis Run 3/14/2017 10:08 AM

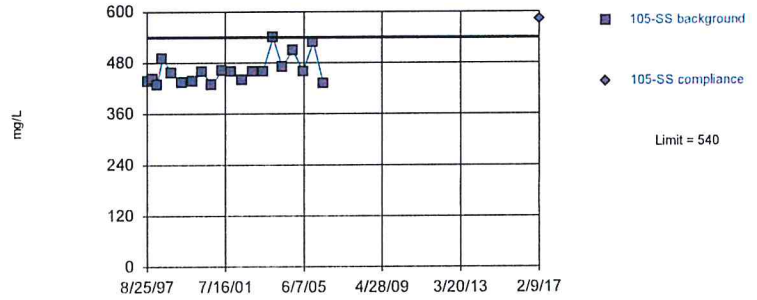
Bridgeton LF Client: RSI Data: Bridgeton LF

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 3/14/2017 10:08 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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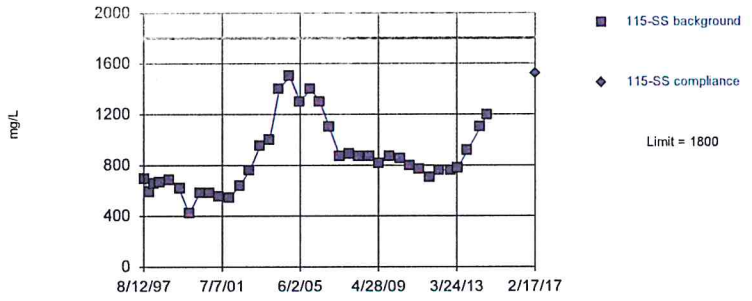
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.71, Std. Dev.=0.3007, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9719, critical = 0.914. Kappa = 2.645 (c=34, w=9, 1 of 2, event alpha = 0.026). Report alpha = 0.00008608. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 10:09 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

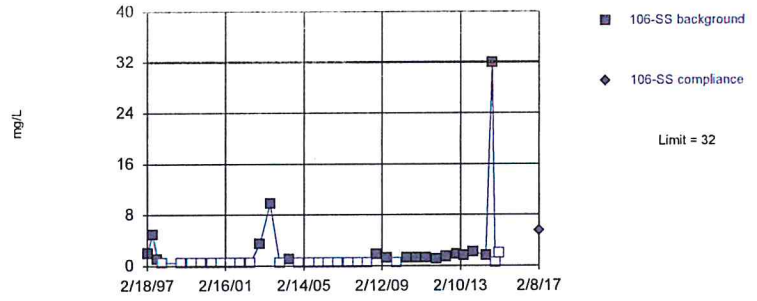
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

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 3/14/2017 10:09 AM

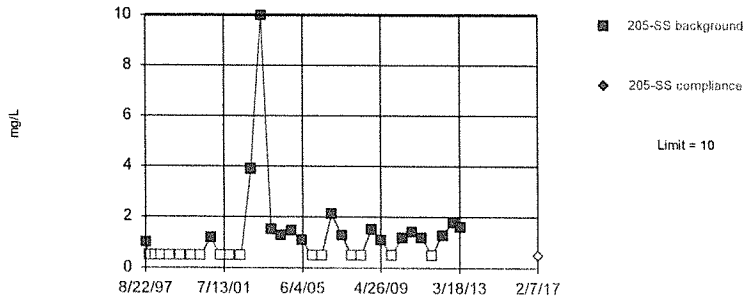
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 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 3/14/2017 10:09 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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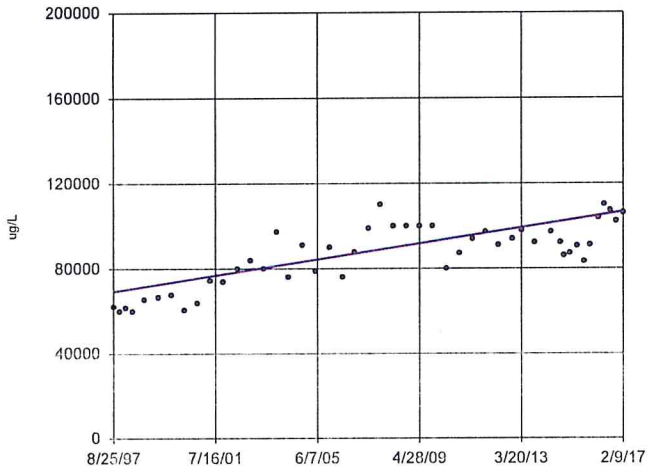
Sen's Slope Estimator

105-SS



n = 47

Slope = 1922 units per year.

Mann-Kendall normal approx. = 5.544
critical = 2.33

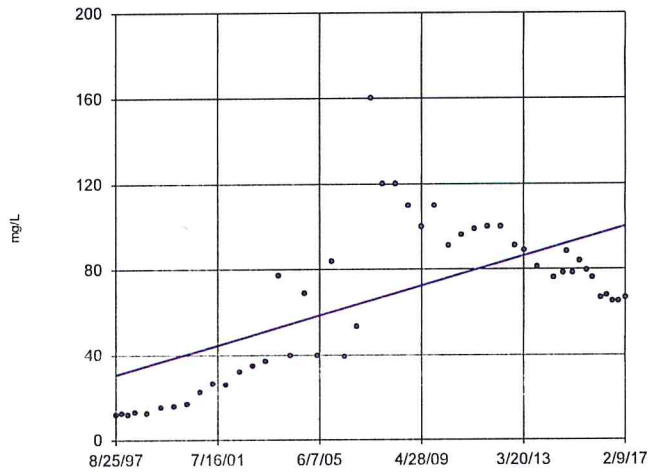
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Total Analysis Run 3/14/2017 1:07 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS



n = 47

Slope = 3.567 units per year.

Mann-Kendall normal approx. = 3.734
critical = 2.33

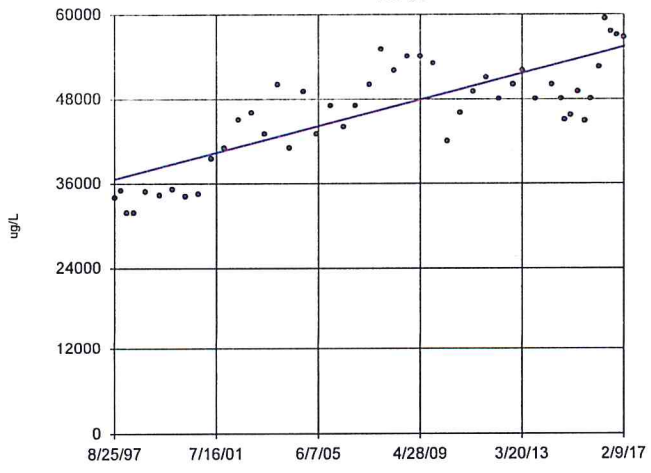
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 3/14/2017 1:07 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS



n = 47

Slope = 963.8 units per year.

Mann-Kendall normal approx. = 5.509
critical = 2.33

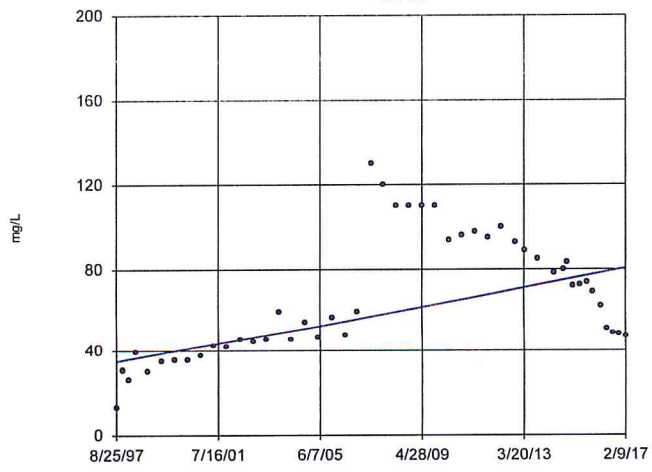
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 3/14/2017 1:07 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS



n = 47

Slope = 2.347 units per year.

Mann-Kendall normal approx. = 3.579
critical = 2.33

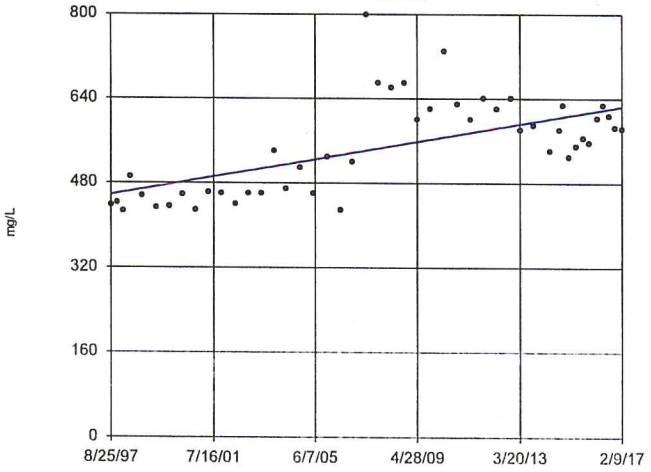
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 3/14/2017 1:07 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

105-SS



n = 47

Slope = 8.608 units per year.

Mann-Kendall normal approx. = 4.396
critical = 2.33

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

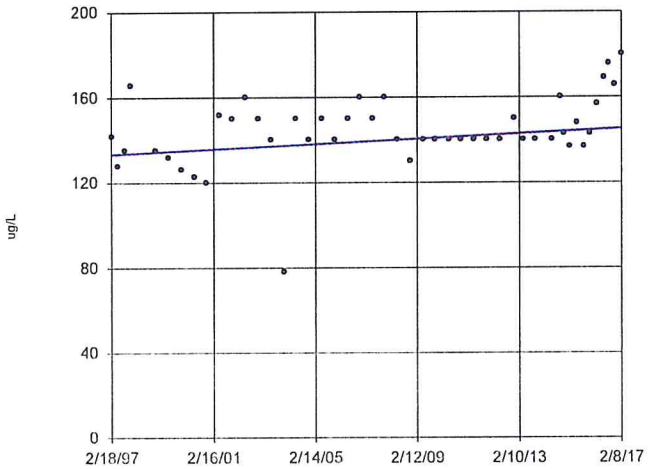
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 1:07 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS



n = 47

Slope = 0.6047 units per year.

Mann-Kendall normal approx. = 2.369
critical = 2.33

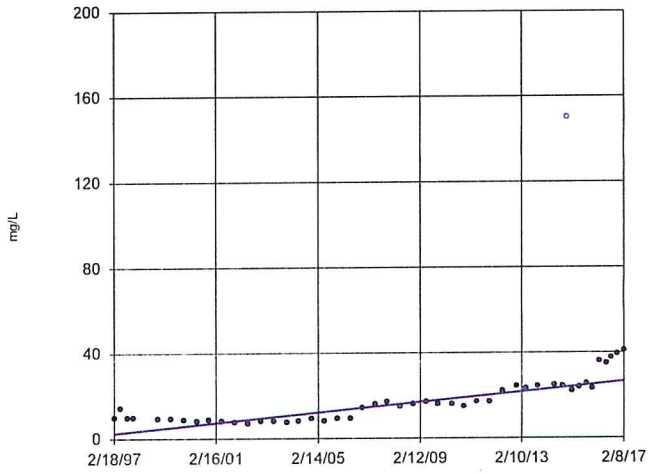
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SS



n = 47

Slope = 1.2 units per year.

Mann-Kendall normal approx. = 6.647
critical = 2.33

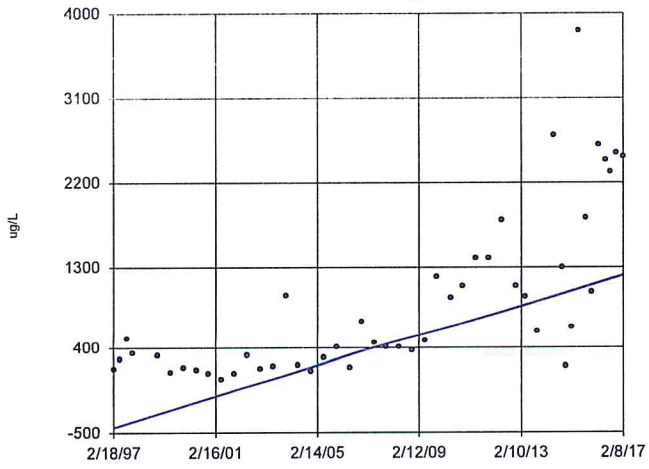
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS



n = 47

Slope = 82.61 units per year.

Mann-Kendall normal approx. = 6.036
critical = 2.33

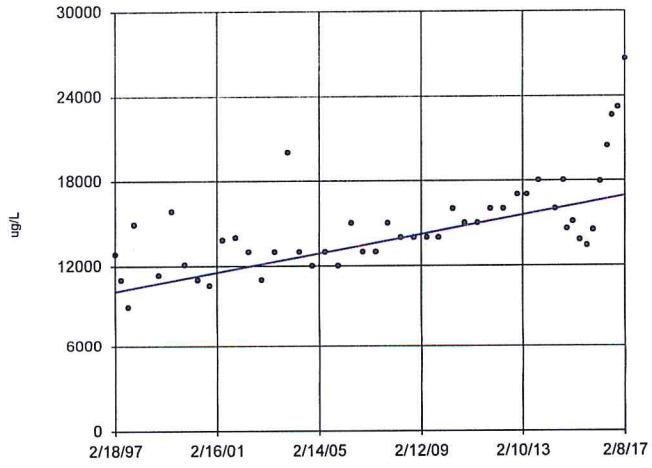
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Iron Total Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS



n = 47

Slope = 337.4 units per year.

Mann-Kendall normal approx. = 5.574
critical = 2.33

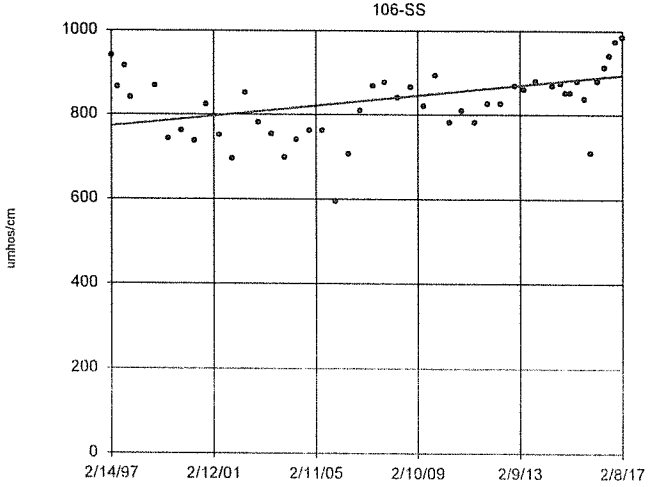
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SS



n = 47

Slope = 6.08 units per year.

Mann-Kendall normal approx. = 3.192
critical = 2.33

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

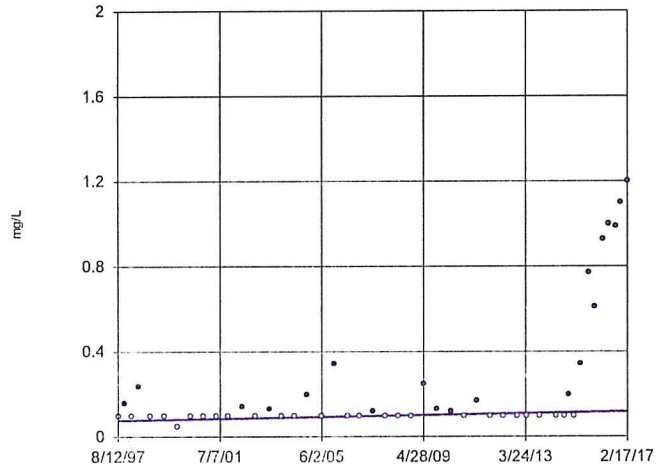
Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 1:08 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS



n = 47

Slope = 0.002101 units per year.

Mann-Kendall normal approx. = 3.48
critical = 2.33

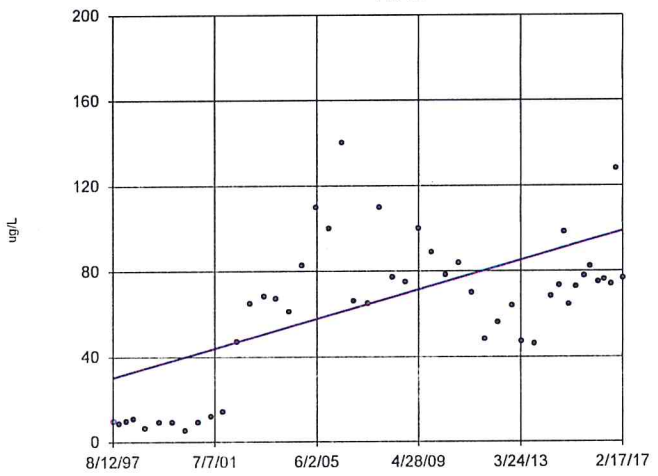
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Ammonia as N Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

115-SS



n = 47

Slope = 3.508 units per year.

Mann-Kendall normal approx. = 3.972
critical = 2.33

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

Constituent: Manganese Total Analysis Run 3/14/2017 1:08 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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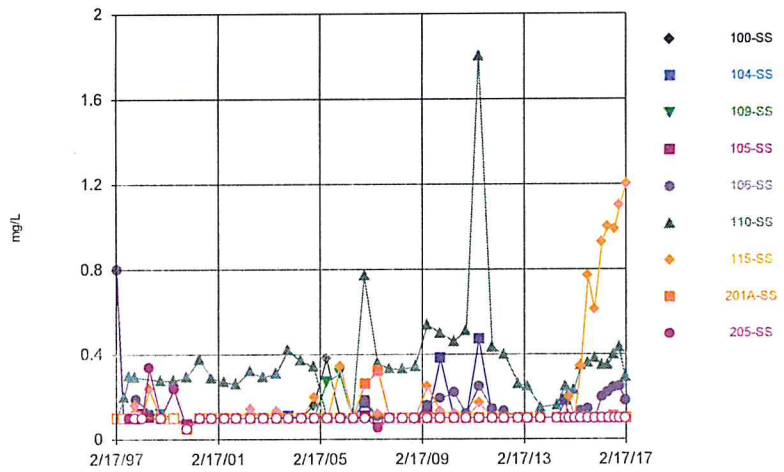
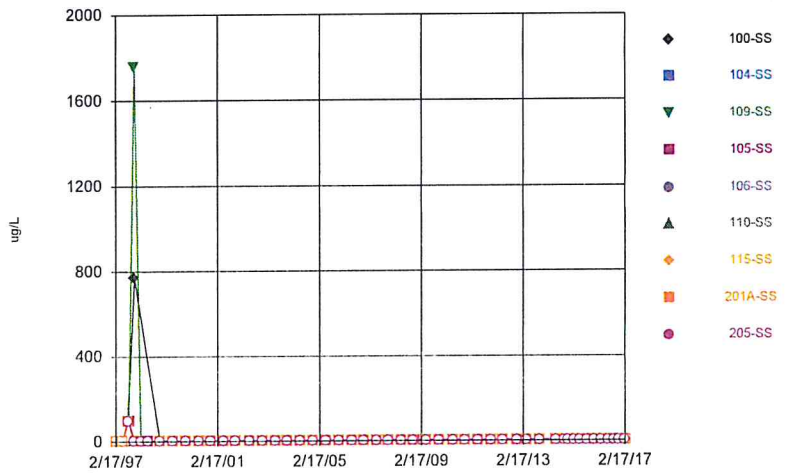
Time Series



Constituent: Ammonia as N Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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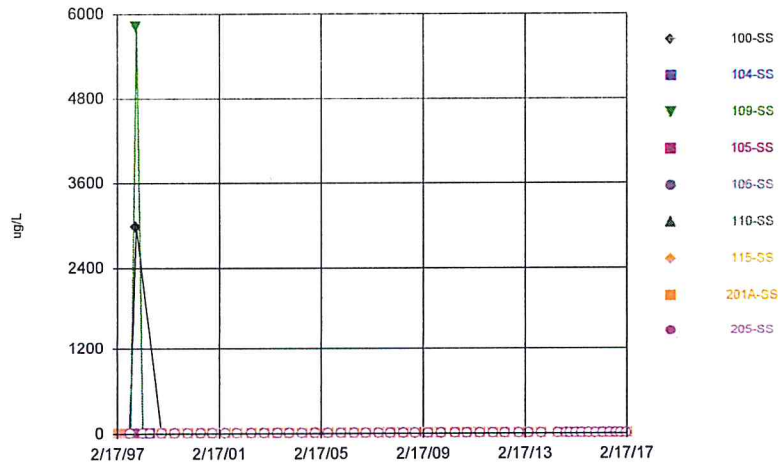
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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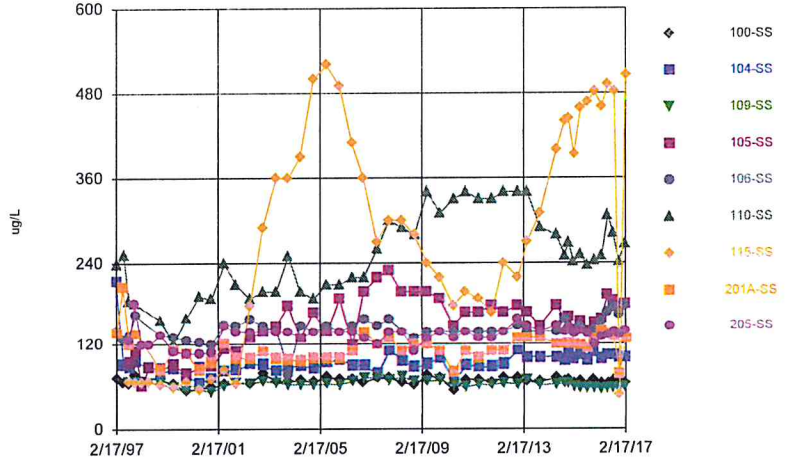
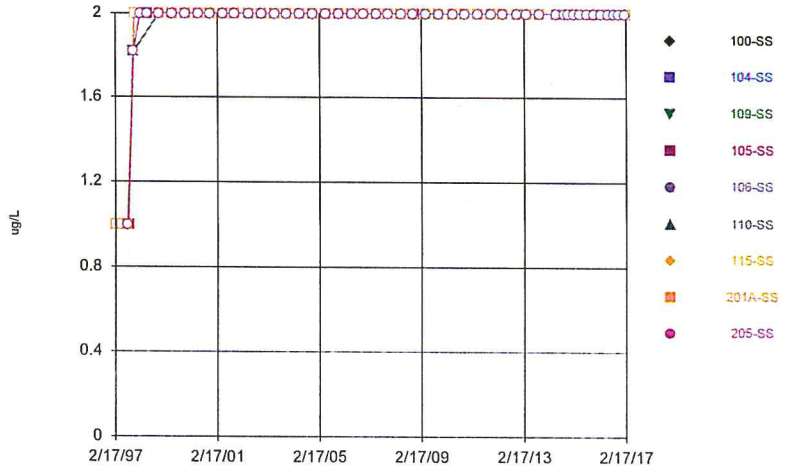
Time Series



Constituent: Barium Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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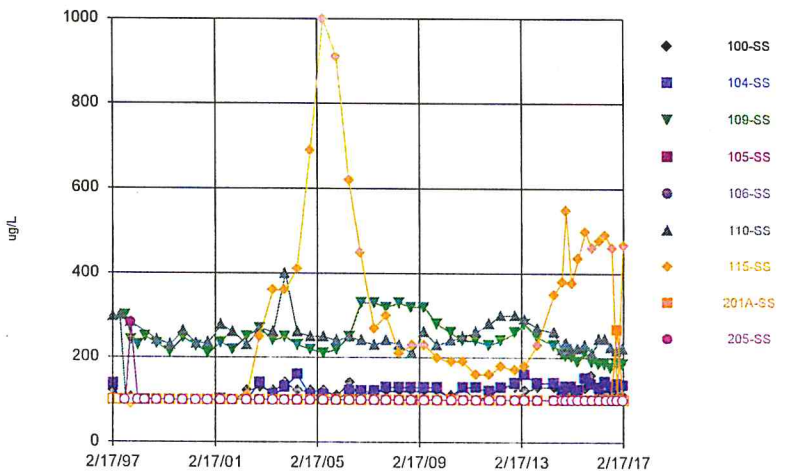
Hollow symbols indicate censored values.

Time Series



Constituent: Boron Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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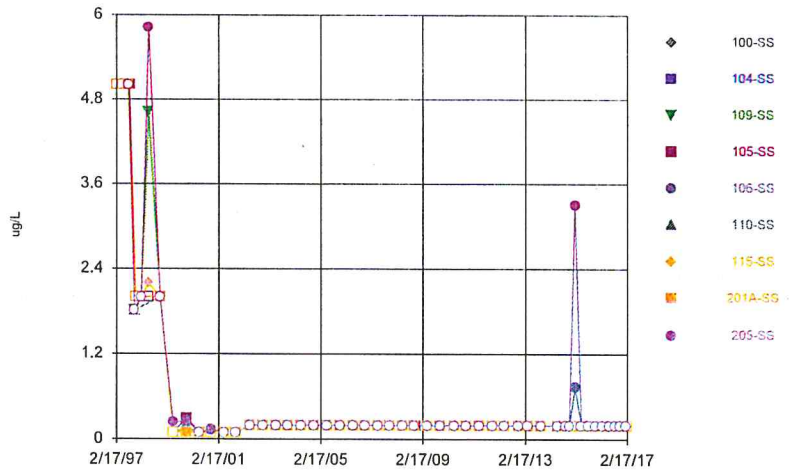
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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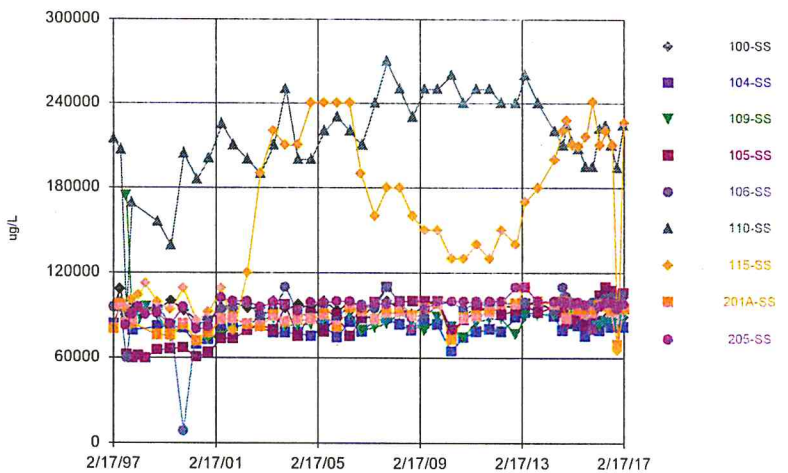
Time Series



Constituent: Calcium Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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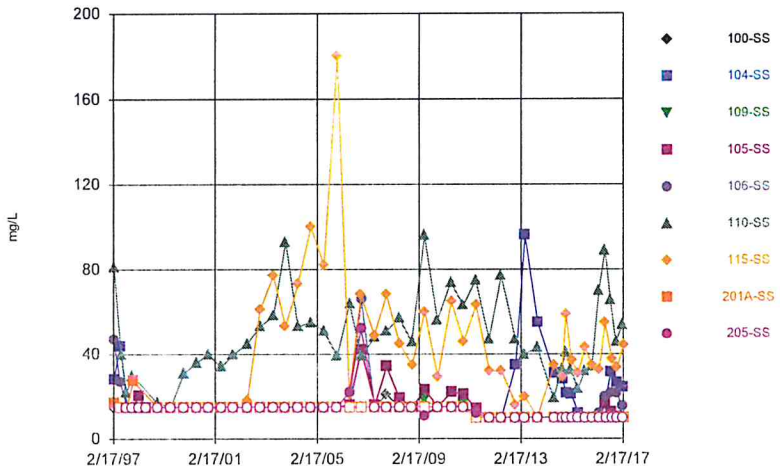
Hollow symbols indicate censored values.

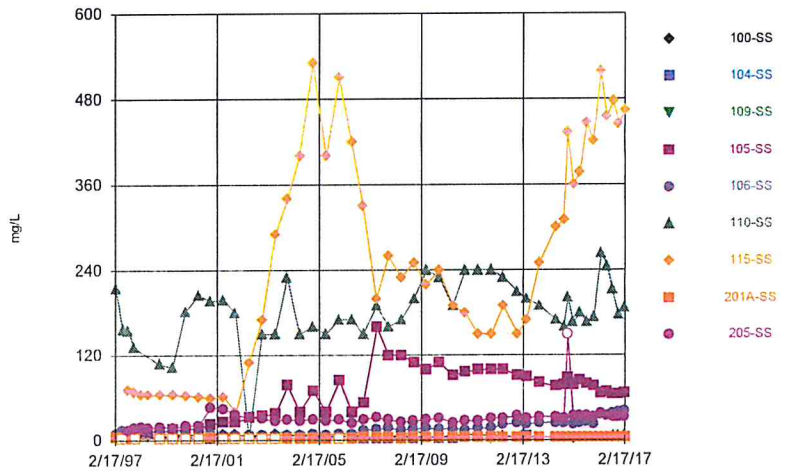
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloride Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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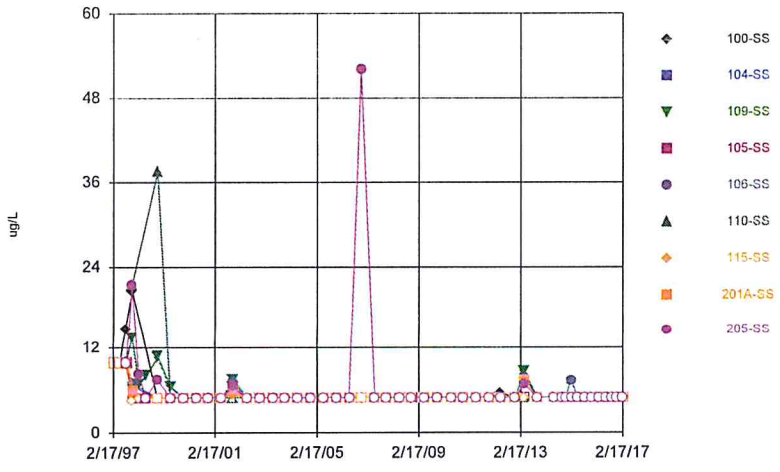
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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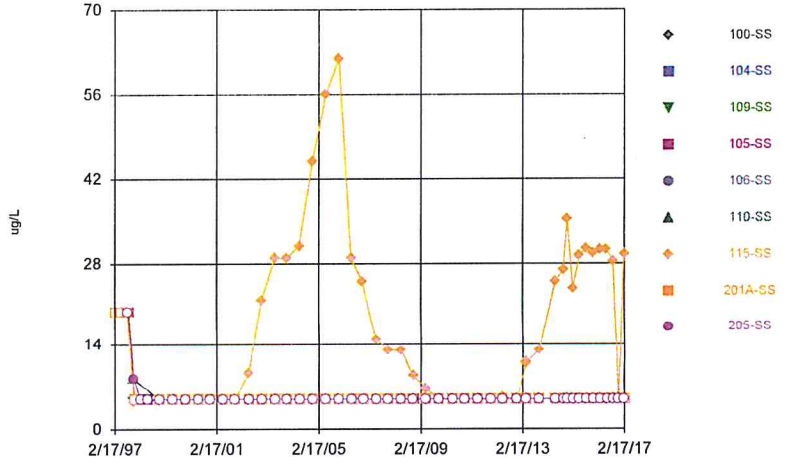
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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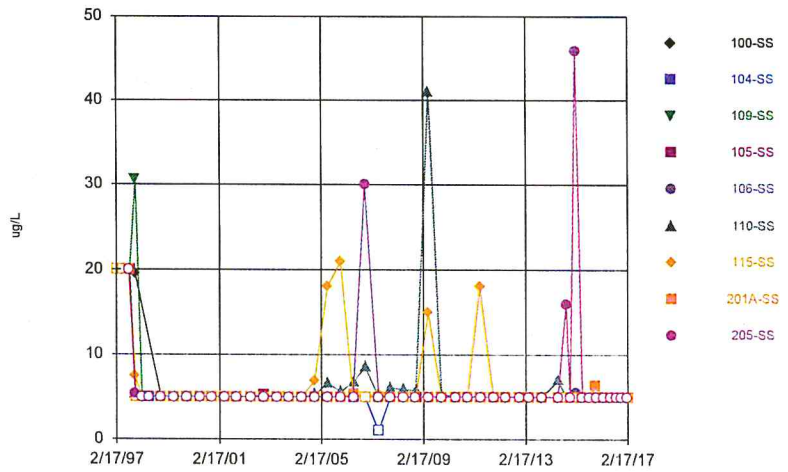
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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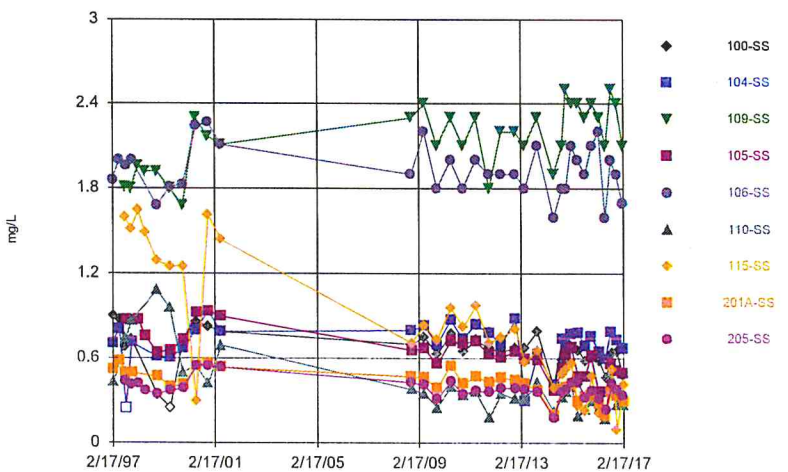
Hollow symbols indicate censored values.

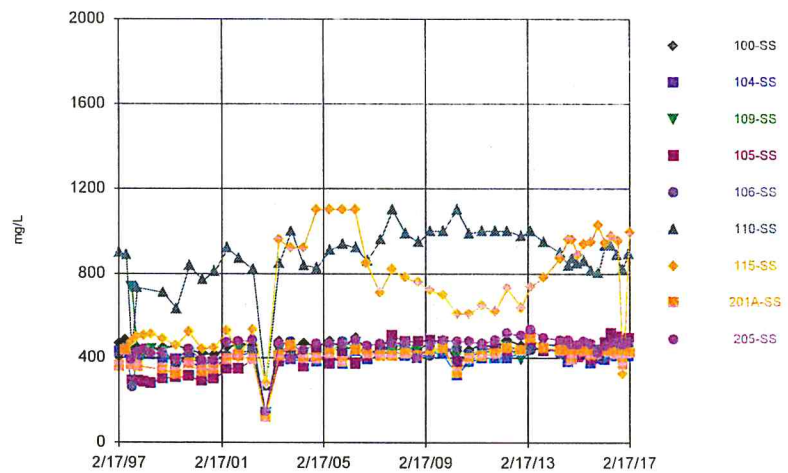
Time Series



Constituent: Fluoride Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

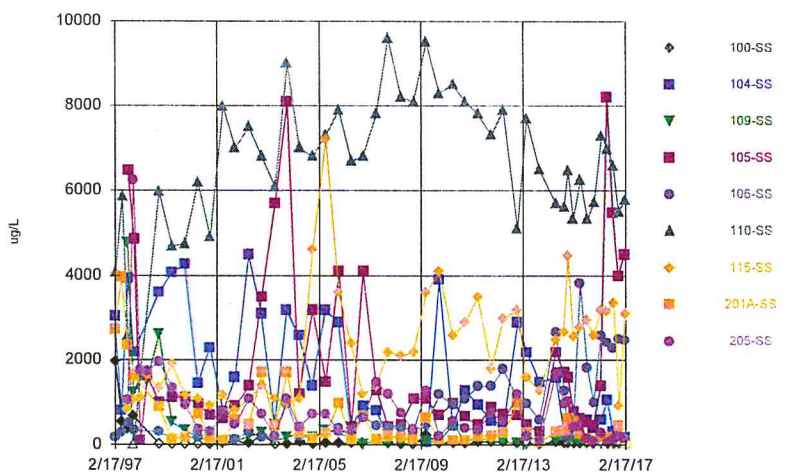
Time Series



Constituent: Hardness Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Iron Total Analysis Run 3/14/2017 10:23 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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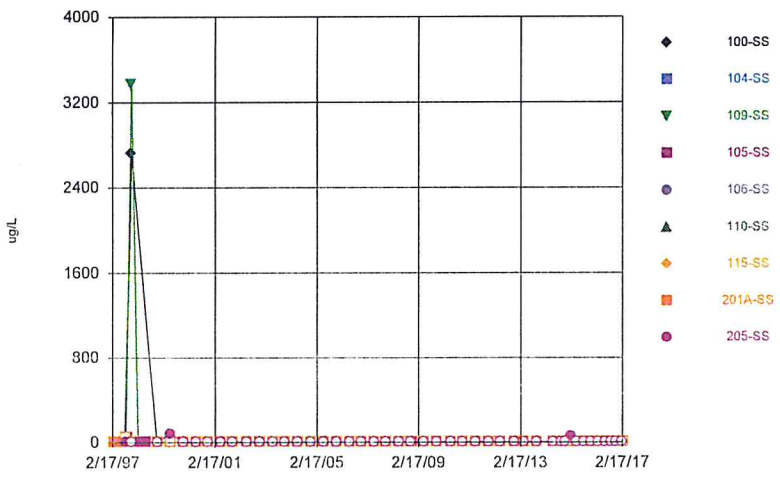
Hollow symbols indicate censored values.

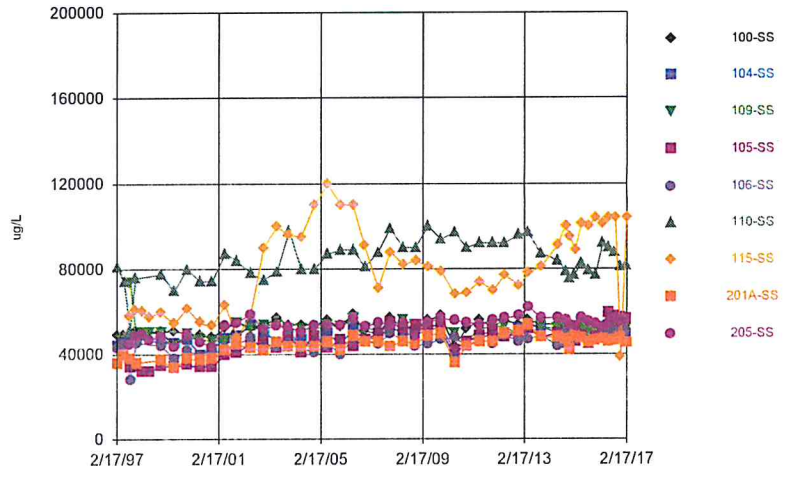
Time Series



Constituent: Lead Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

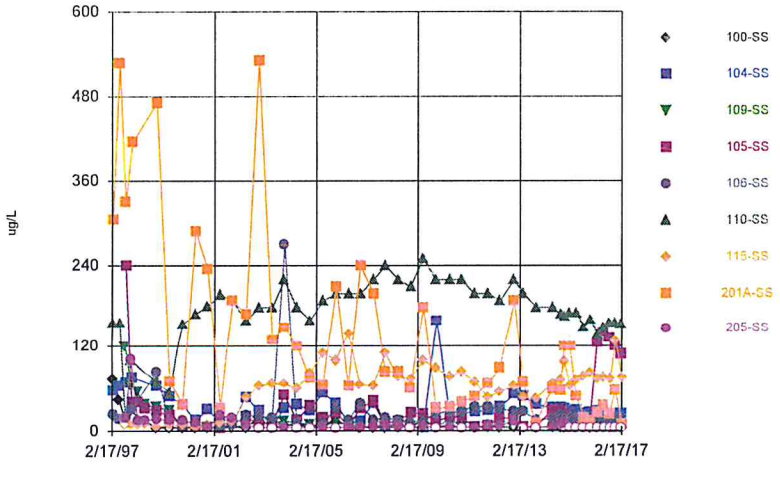
Time Series



Constituent: Magnesium Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

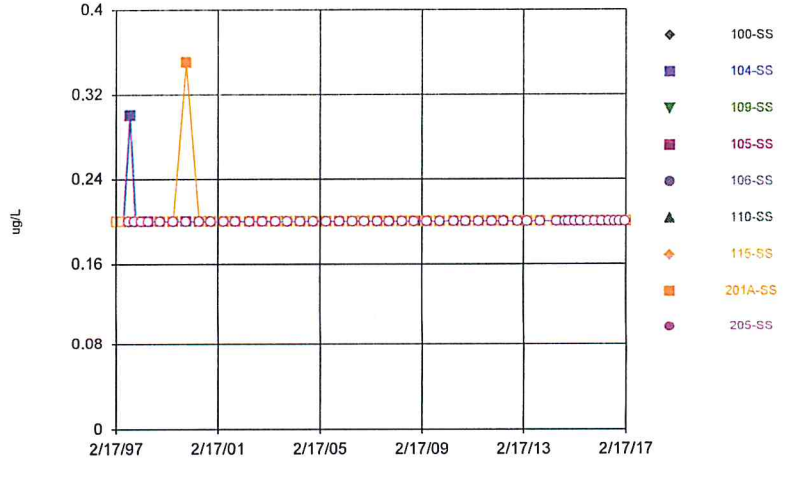
Time Series



Constituent: Manganese Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

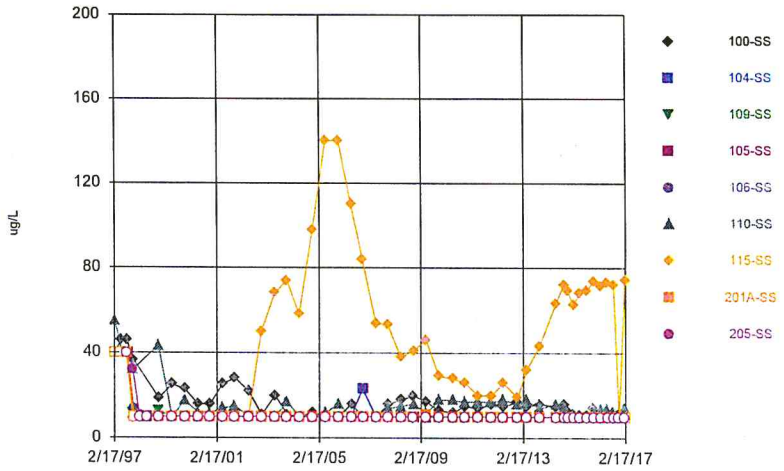
Time Series



Constituent: Mercury Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

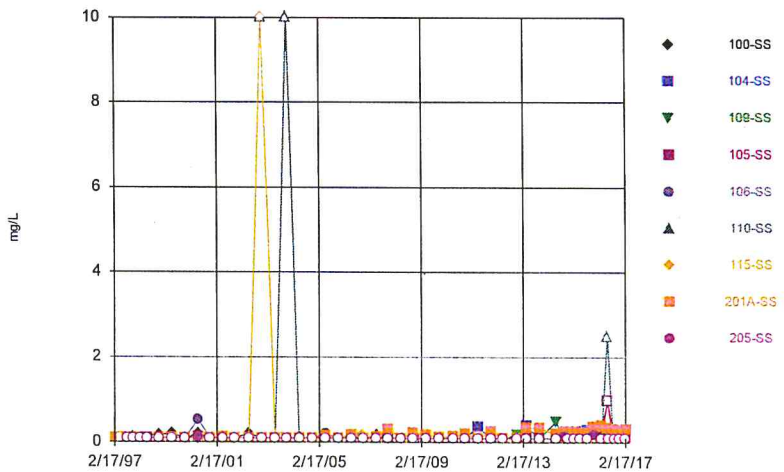
Time Series



Constituent: Nickel Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

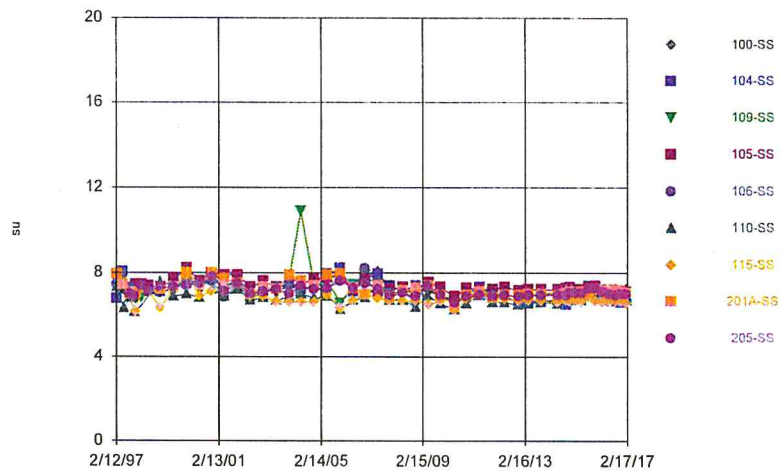
Time Series



Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

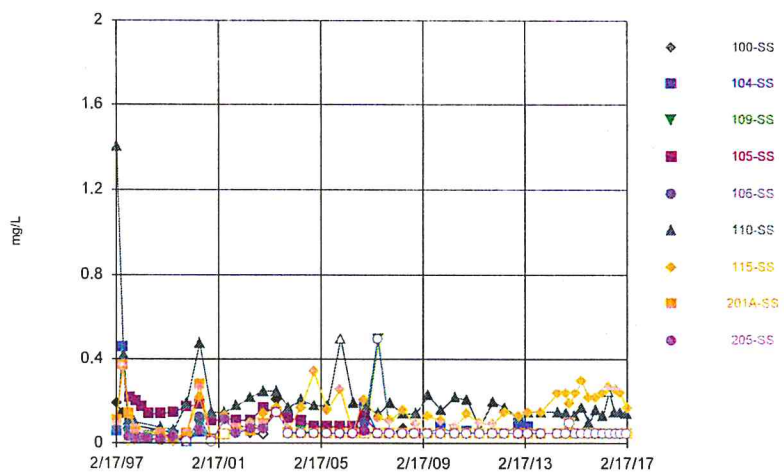
Time Series



Constituent: pH [Field] Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

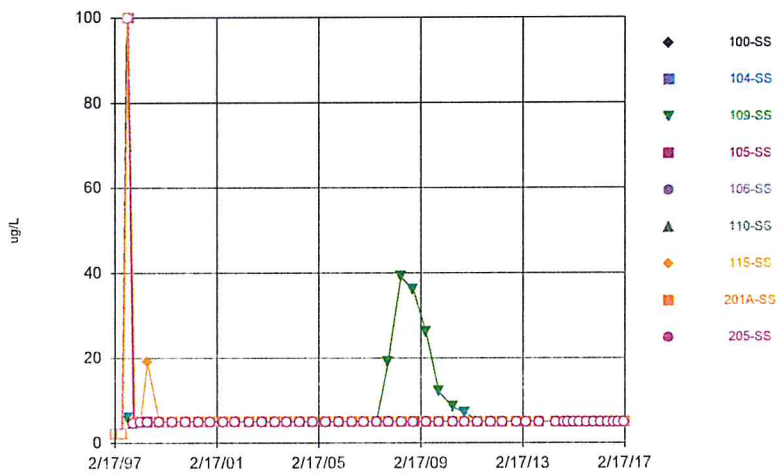
Time Series



Constituent: Phosphorus Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

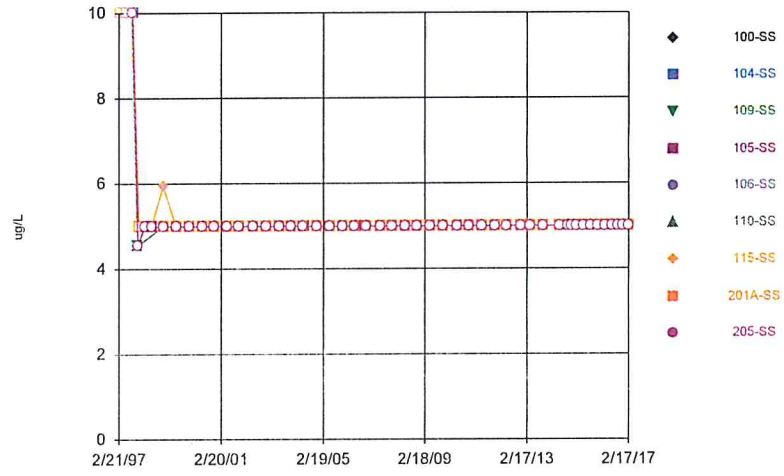
Time Series



Constituent: Selenium Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

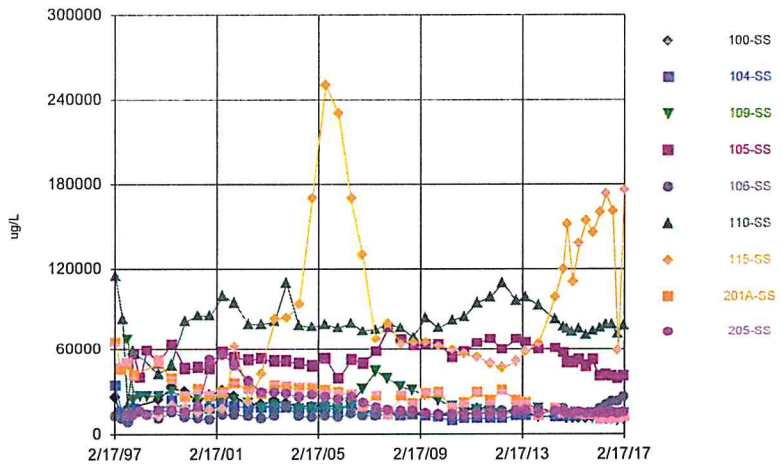
Time Series



Constituent: Silver Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: Sodium Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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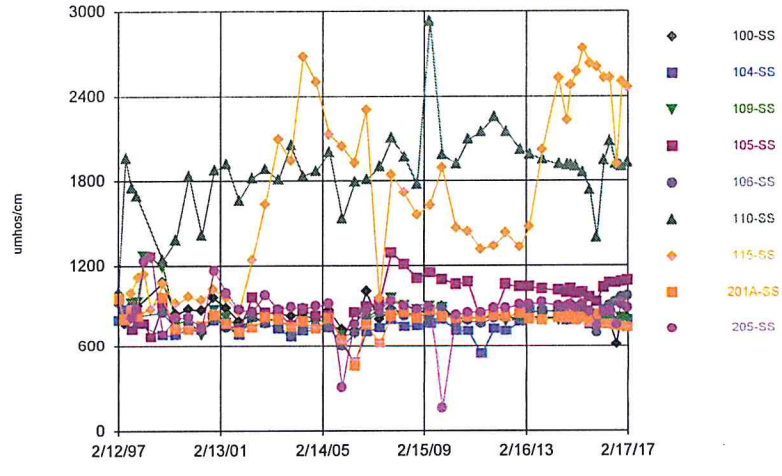
Time Series



Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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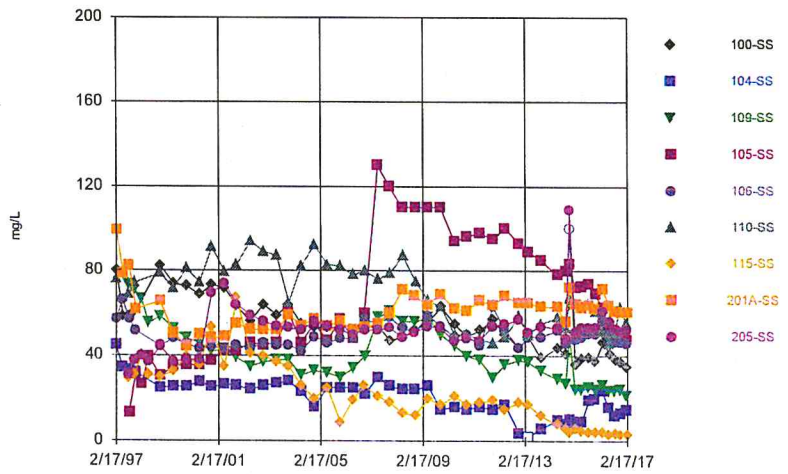
Hollow symbols indicate censored values.

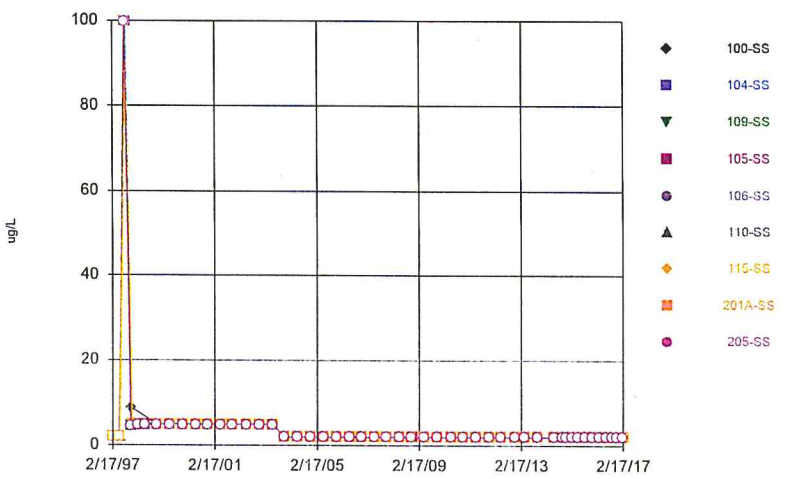
Time Series



Constituent: Sulfate Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

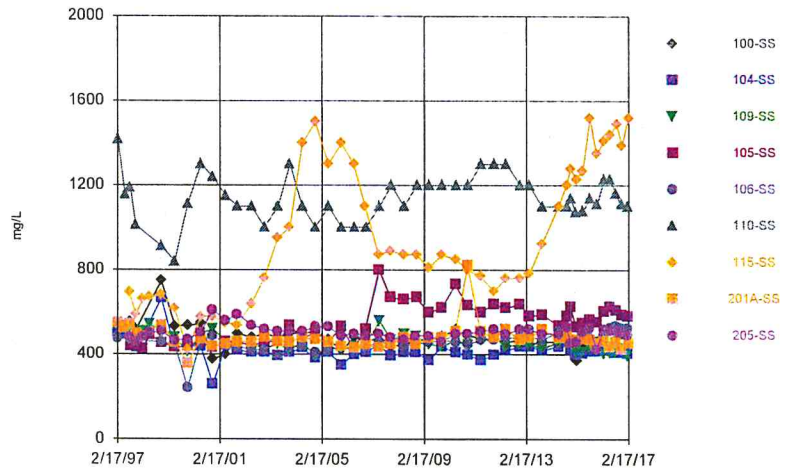
Time Series



Constituent: Thallium Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

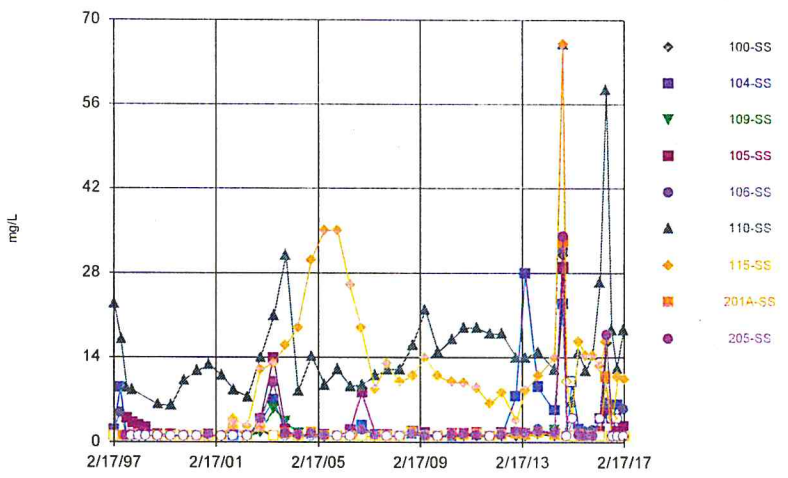
Time Series



onstituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

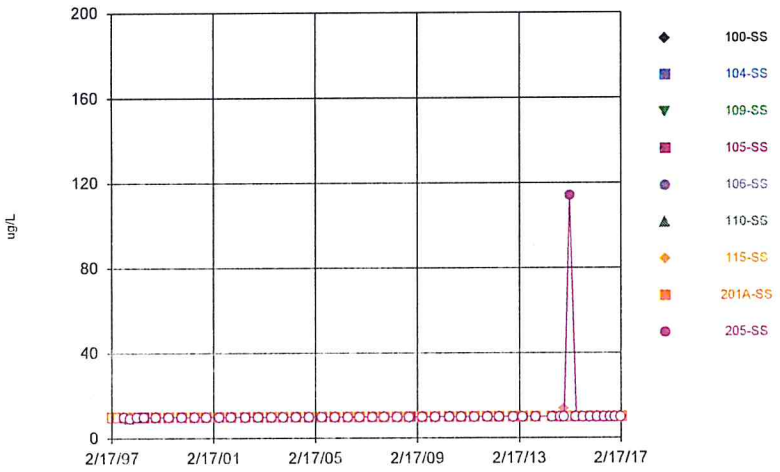
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett [illegible]
Hollow symbols indicate censored values

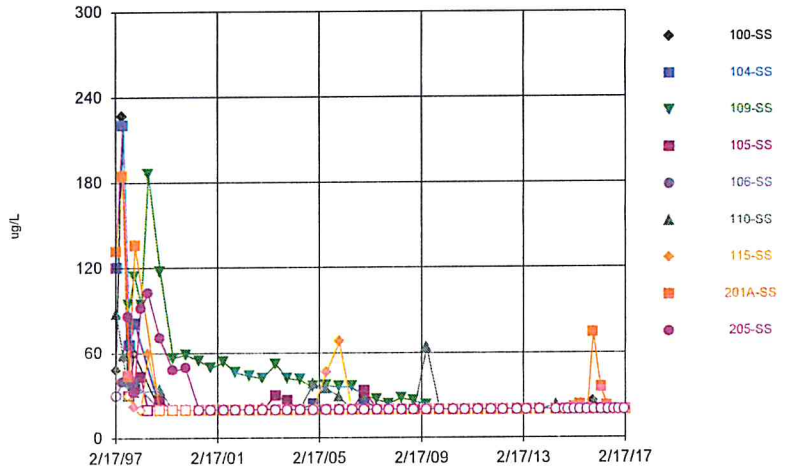
Time Series



Constituent: Vanadium Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, OG
Hollow symbols indicate censored values.

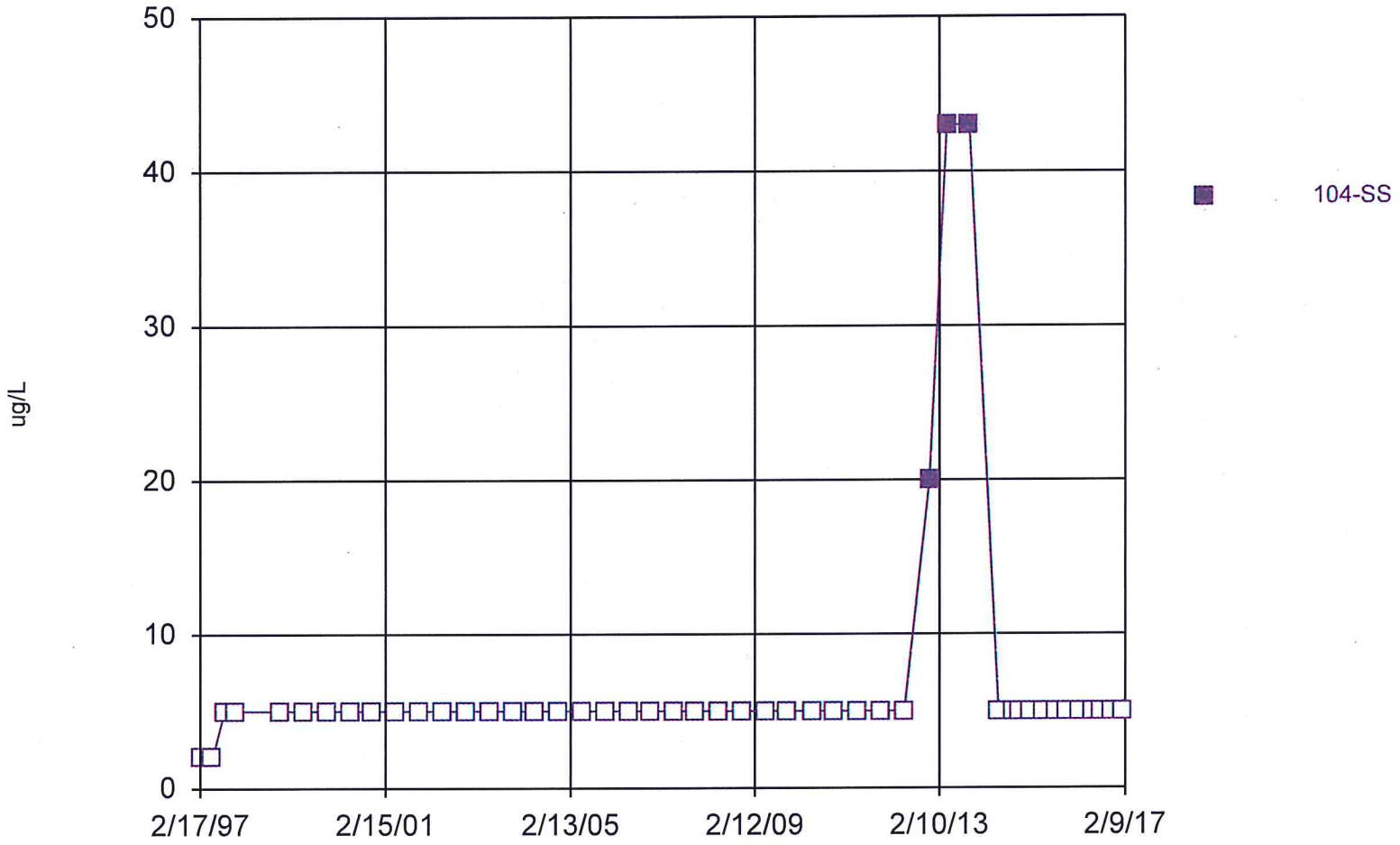
Time Series



Constituent: Zinc Total Analysis Run 3/14/2017 10:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.3.36 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

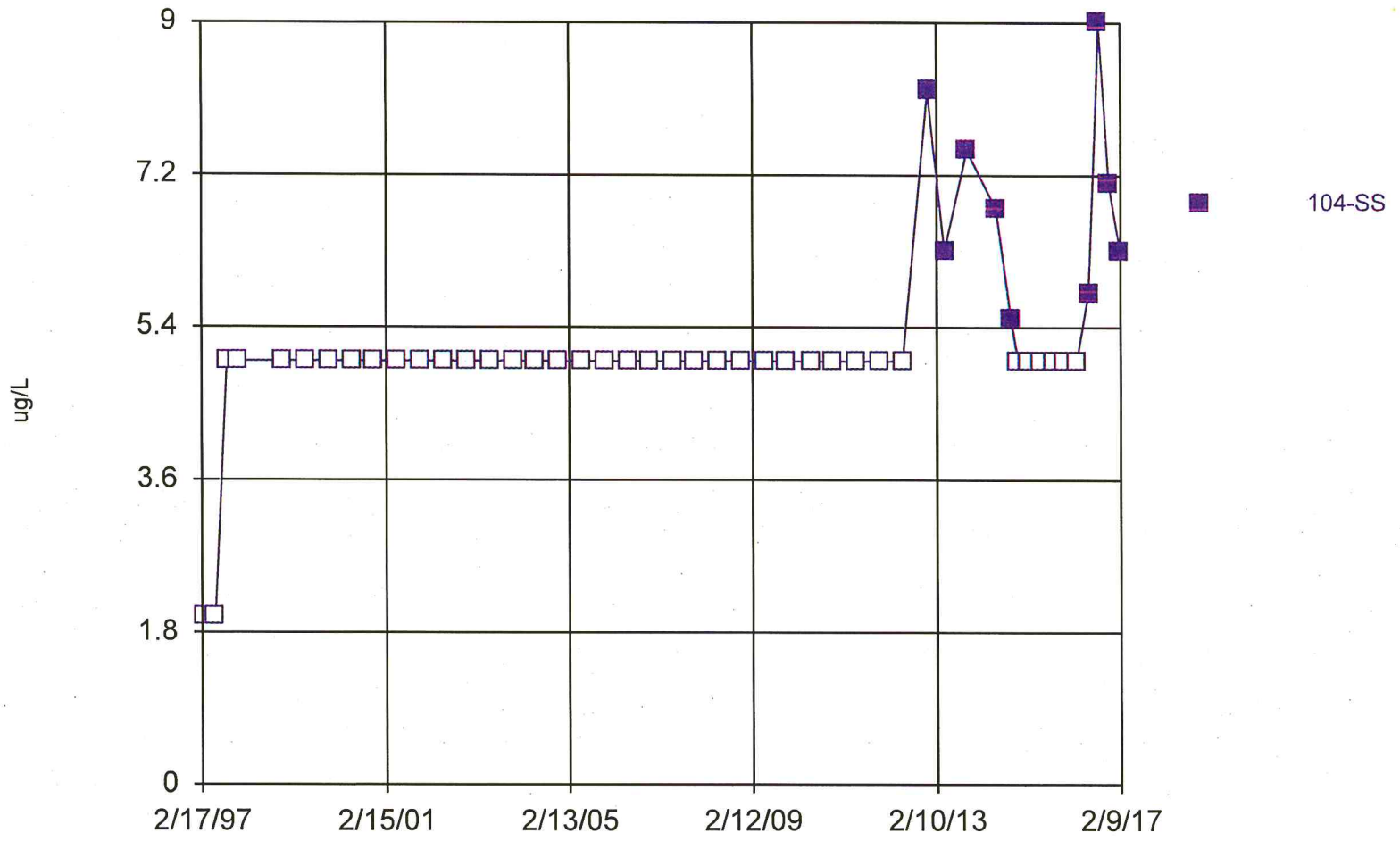


Constituent: 12-Dichloroethane Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

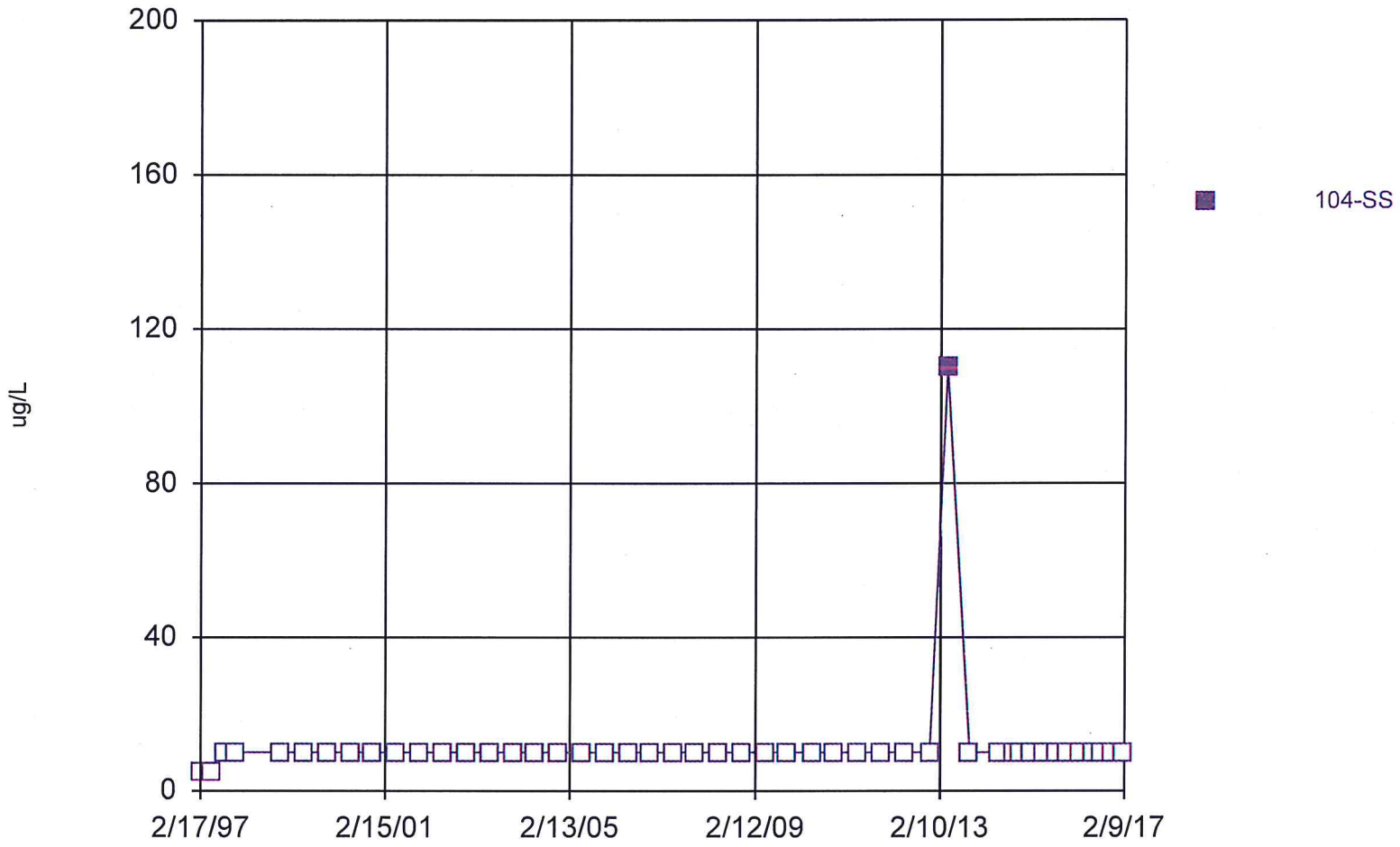


Constituent: 14-Dichlorobenzene Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

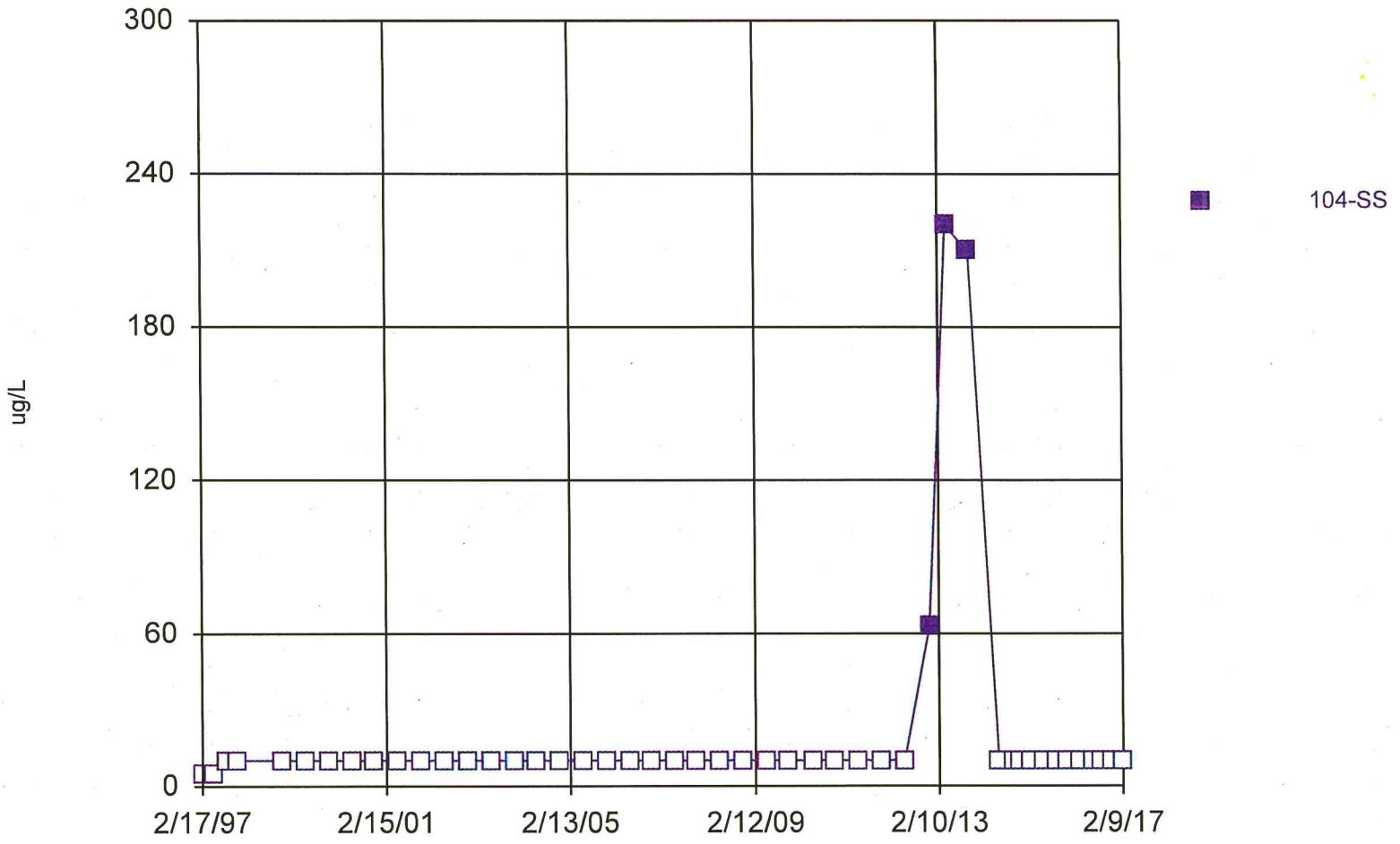


Constituent: 2-Butanone [MEK] Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

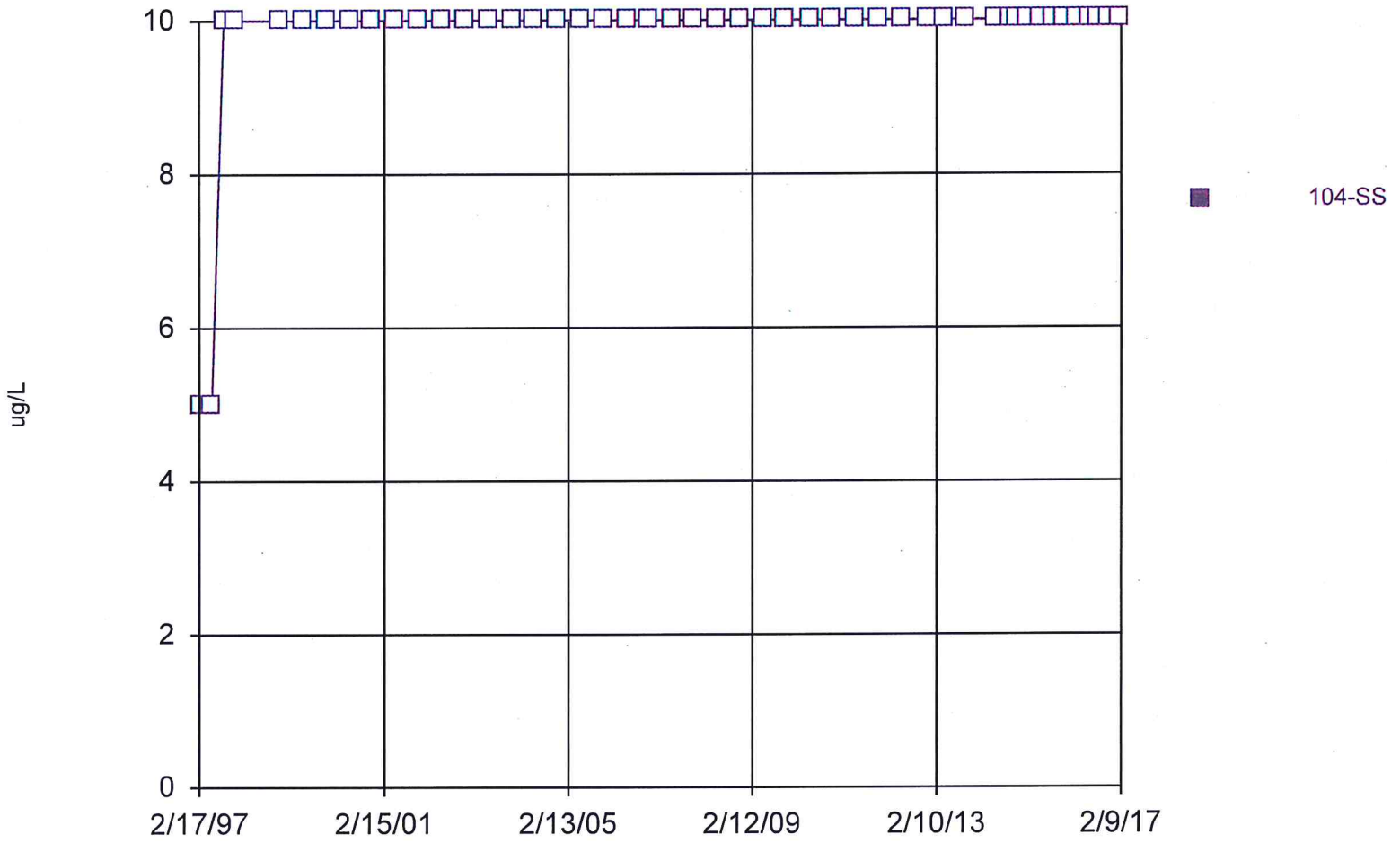


Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series

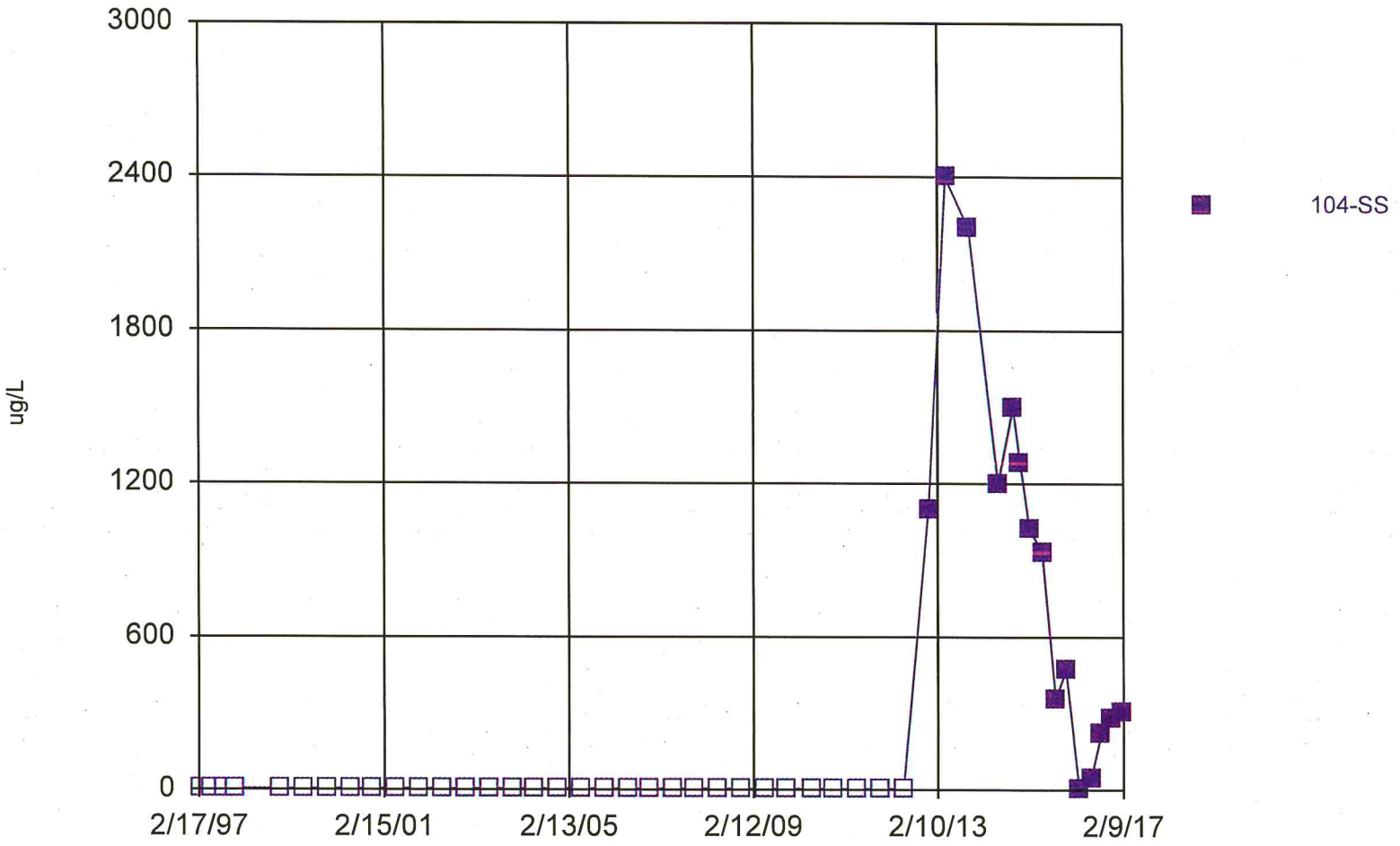


Constituent: Acetone Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

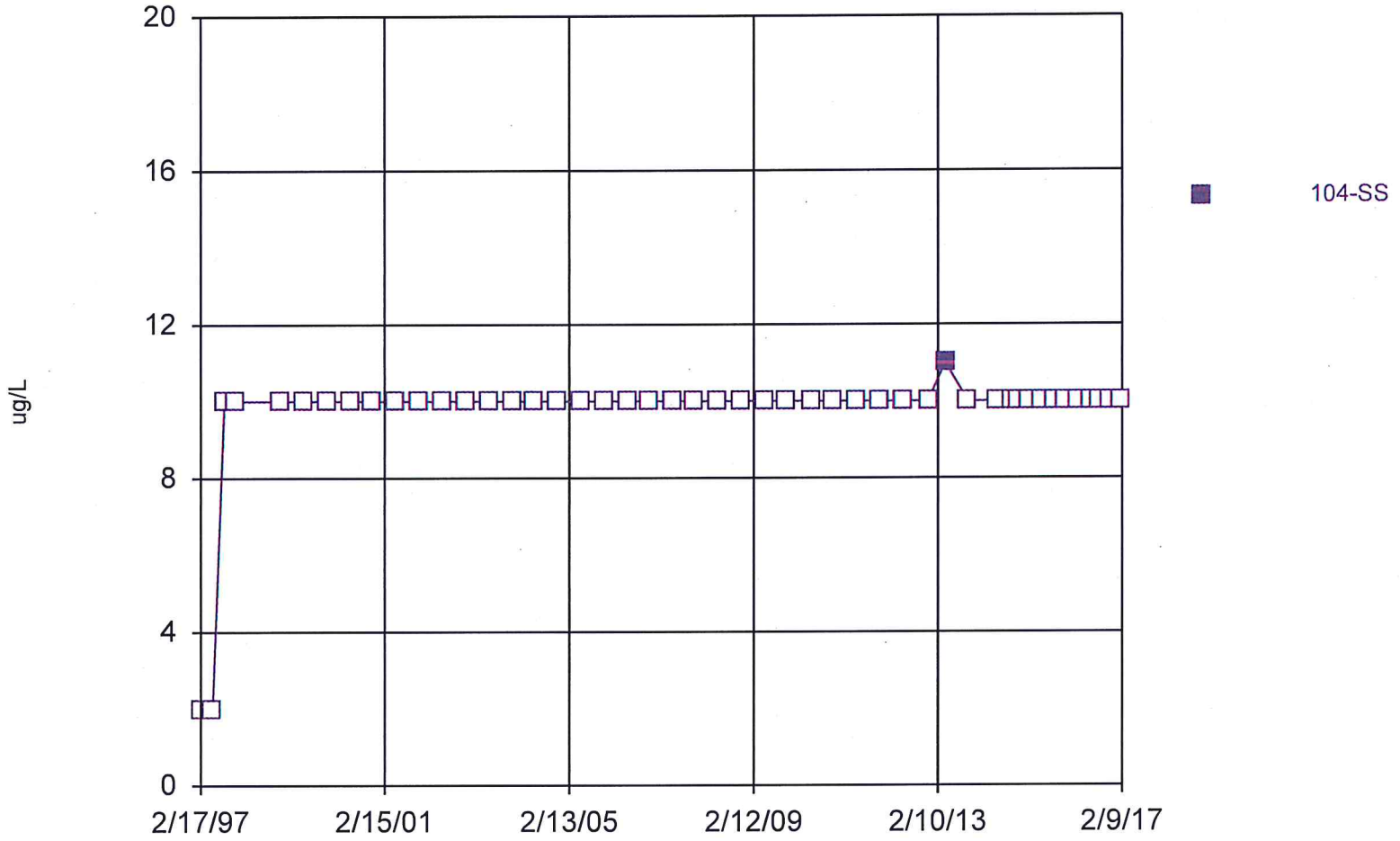


Constituent: Benzene Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Gett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

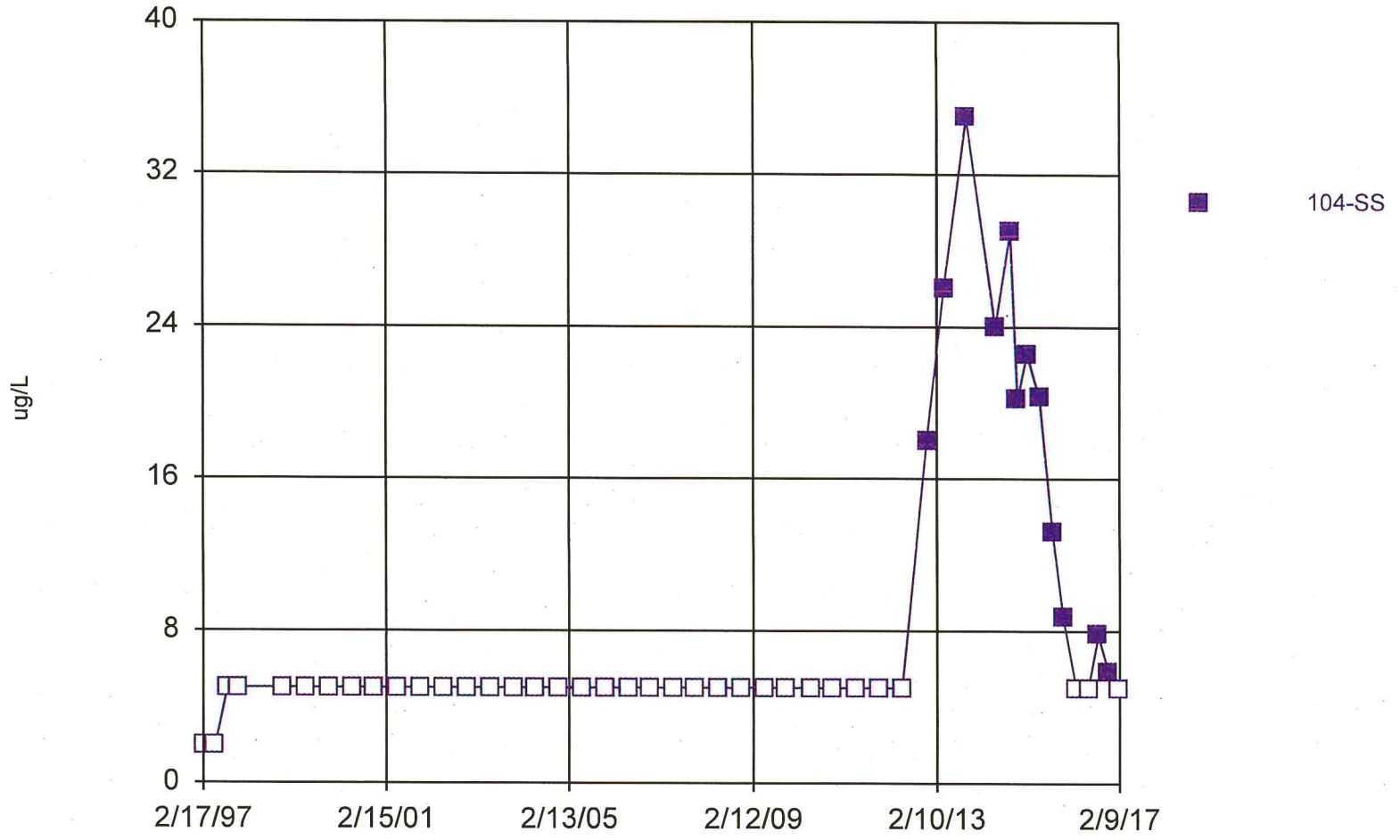


Constituent: Chloroethane Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

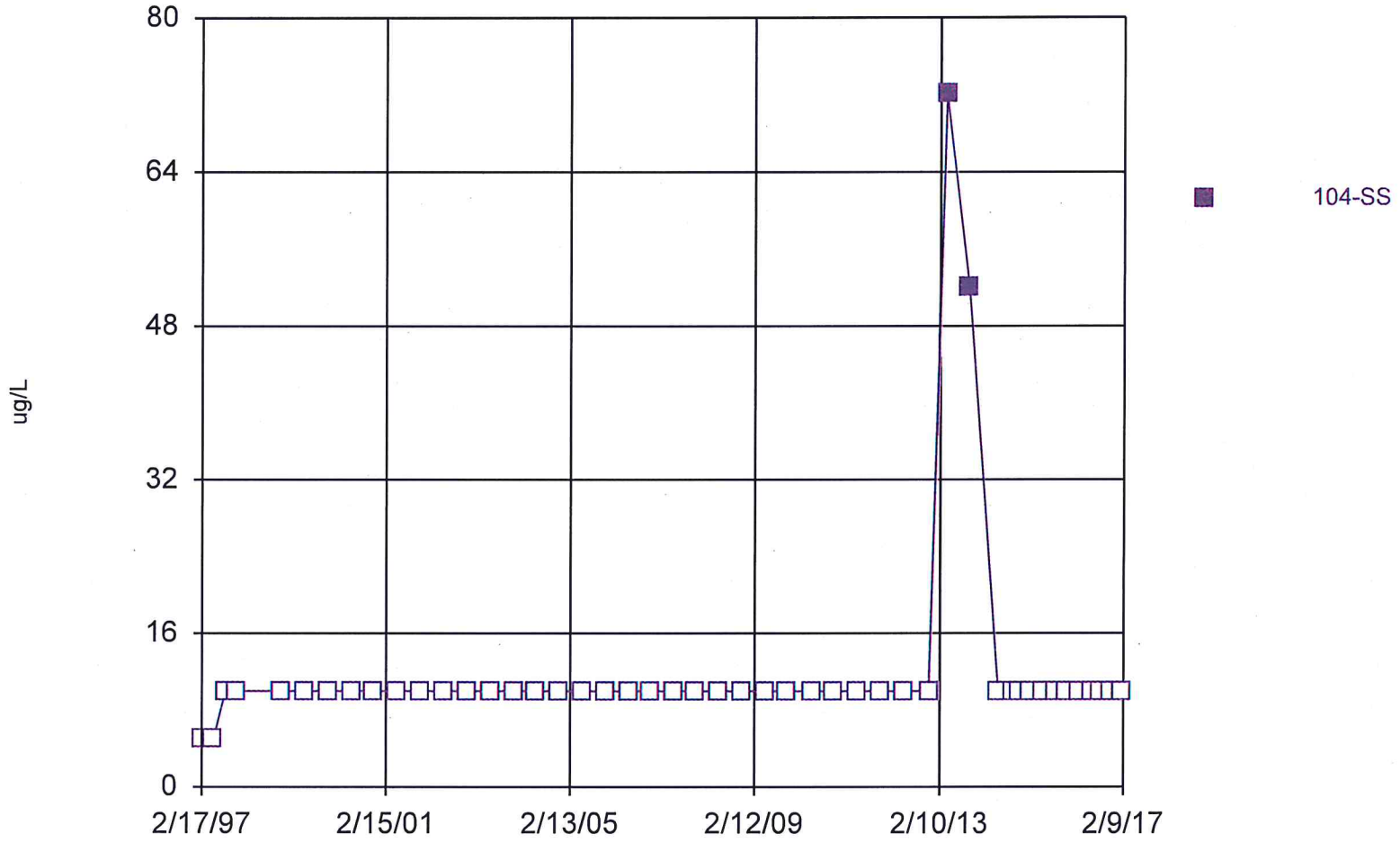


Constituent: Ethylbenzene Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting
Hollow symbols indicate censored values.

Time Series

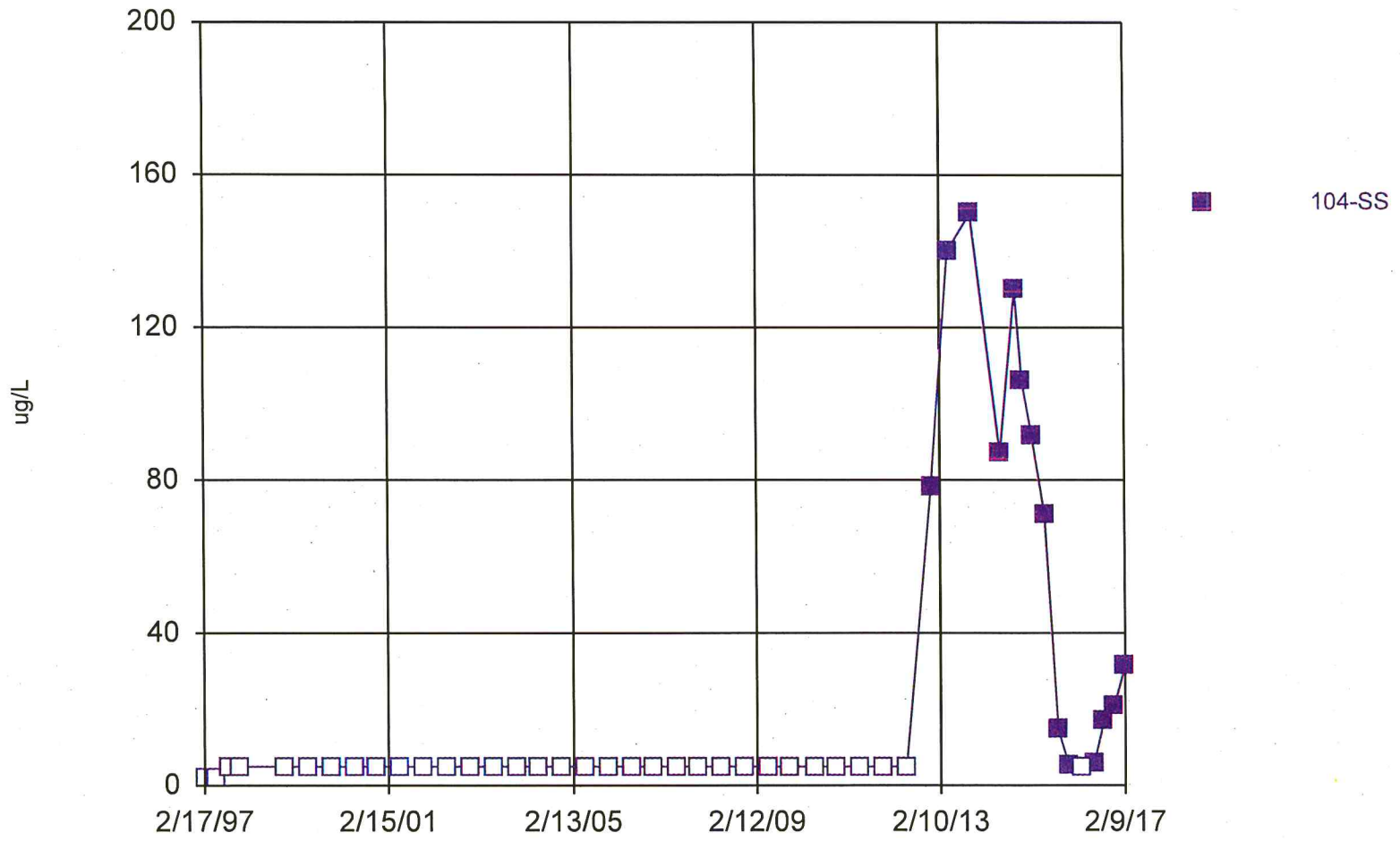


Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

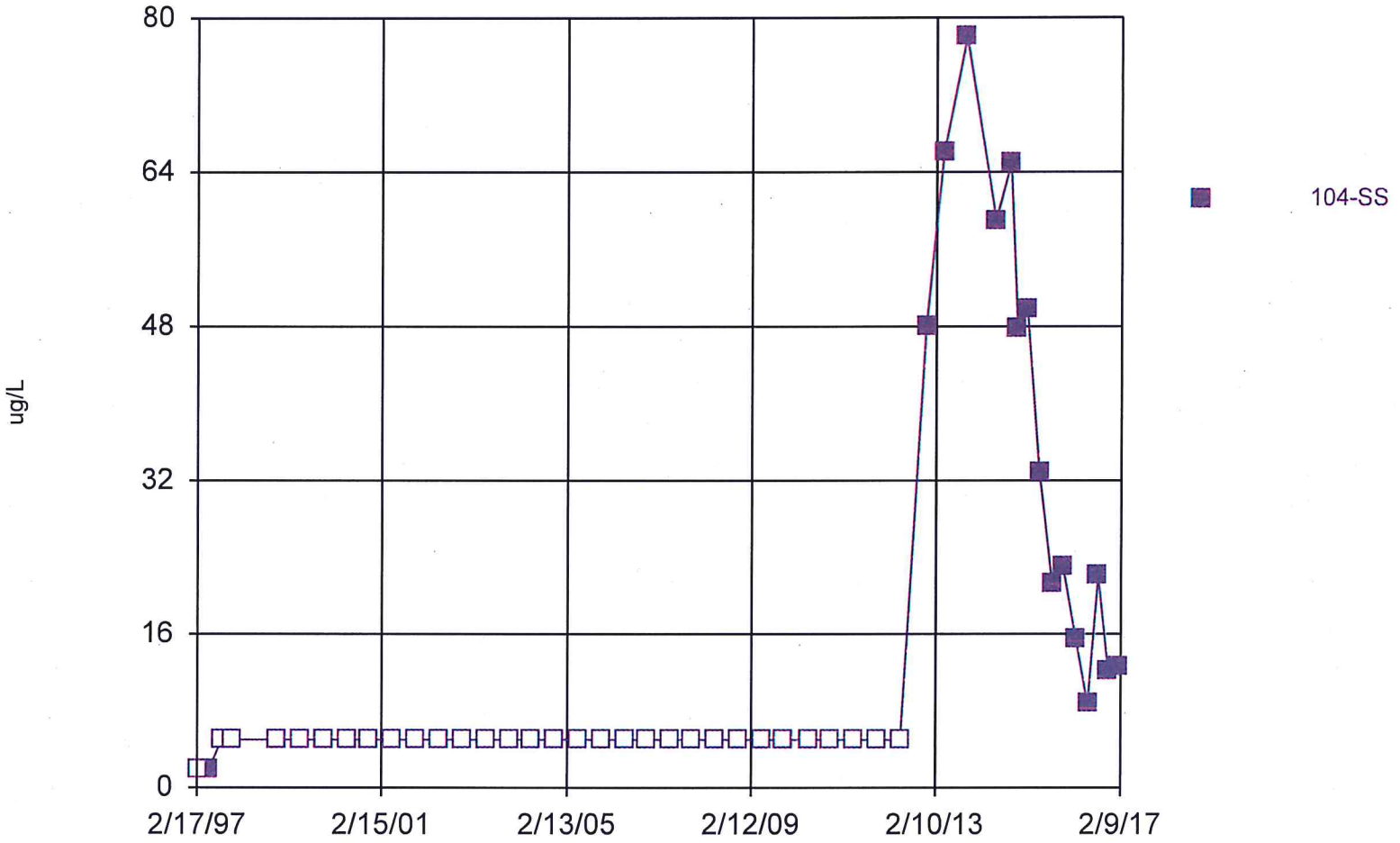


Constituent: Toluene Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes Total Analysis Run 3/14/2017 3:31 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX E
STATISTICAL EVALUATIONS
SALEM FORMATION

TREND EVALUATION OF BACKGROUND DATA

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Ammonia as N (mg/L)	100-SD (bg)	-0.00...	-131	-201	No	40	2.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	104-SD (bg)	0.01592	150	201	No	40	32.5	n/a	n/a	0.02	NP
Ammonia as N (mg/L)	**106-SD (bg)**	**0.02107**	**403**	**201**	**Yes**	**40**	**40**	**n/a**	**n/a**	**0.02**	**NP**
Ammonia as N (mg/L)	111-SD (bg)	0	-65	-201	No	40	82.5	n/a	n/a	0.02	NP
Antimony Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	106-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Antimony Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	100-SD (bg)	0	-12	-201	No	40	90	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	**104-SD (bg)**	**0**	**341**	**201**	**Yes**	**40**	**82.5**	**n/a**	**n/a**	**0.02**	**NP**
Arsenic Total (ug/L)	106-SD (bg)	0	31	201	No	40	77.5	n/a	n/a	0.02	NP
Arsenic Total (ug/L)	111-SD (bg)	0	114	201	No	40	97.5	n/a	n/a	0.02	NP
Barium Total (ug/L)	100-SD (bg)	0.9366	131	201	No	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	104-SD (bg)	9.667	437	201	Yes	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	106-SD (bg)	4.028	455	201	Yes	40	0	n/a	n/a	0.02	NP
Barium Total (ug/L)	**111-SD (bg)**	**0.5406**	**269**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Beryllium Total (ug/L)	100-SD (bg)	0	17	201	No	40	97.5	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	104-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	106-SD (bg)	0	112	201	No	40	100	n/a	n/a	0.02	NP
Beryllium Total (ug/L)	111-SD (bg)	0	81	201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Boron Total (ug/L)	**104-SD (bg)**	**0**	**283**	**201**	**Yes**	**40**	**75**	**n/a**	**n/a**	**0.02**	**NP**
Boron Total (ug/L)	106-SD (bg)	0	154	201	No	40	85	n/a	n/a	0.02	NP
Boron Total (ug/L)	111-SD (bg)	0	-61	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	100-SD (bg)	0	-66	-201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	104-SD (bg)	0	-12	-201	No	40	100	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	106-SD (bg)	0	34	201	No	40	97.5	n/a	n/a	0.02	NP
Cadmium Total (ug/L)	111-SD (bg)	0	-35	-201	No	40	100	n/a	n/a	0.02	NP
Calcium Total (ug/L)	100-SD (bg)	-199.7	-173	-201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	104-SD (bg)	275	179	201	No	40	0	n/a	n/a	0.02	NP
Calcium Total (ug/L)	**106-SD (bg)**	**963.8**	**234**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Calcium Total (ug/L)	111-SD (bg)	0	-1	-201	No	40	0	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	100-SD (bg)	0	-356	-201	Yes	40	92.5	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	104-SD (bg)	1.603	366	201	Yes	40	62.5	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	106-SD (bg)	0	123	201	No	40	75	n/a	n/a	0.02	NP
Chemical Oxygen Demand [COD] (m...	**111-SD (bg)**	**0**	**-366**	**-201**	**Yes**	**40**	**95**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	100-SD (bg)	0	31	201	No	40	90	n/a	n/a	0.02	NP
Chloride (mg/L)	**104-SD (bg)**	**7.593**	**494**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**106-SD (bg)**	**-0.5238**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chloride (mg/L)	**111-SD (bg)**	**-0.3646**	**-583**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Chromium Total (ug/L)	100-SD (bg)	0	-201	-201	No	40	90	n/a	n/a	0.02	NP
Chromium Total (ug/L)	104-SD (bg)	0	126	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	106-SD (bg)	0	24	201	No	40	82.5	n/a	n/a	0.02	NP
Chromium Total (ug/L)	111-SD (bg)	0	-113	-201	No	40	95	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	104-SD (bg)	0	-87	-201	No	40	97.5	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	106-SD (bg)	0	-5	-201	No	40	90	n/a	n/a	0.02	NP
Cobalt Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Copper Total (ug/L)	104-SD (bg)	0	-37	-201	No	40	95	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Copper Total (ug/L)	106-SD (bg)	0	-59	-201	No	40	95	n/a	n/a	0.02	NP
Copper Total (ug/L)	111-SD (bg)	0	-170	-201	No	40	95	n/a	n/a	0.02	NP
Fluoride (mg/L)	100-SD (bg)	0	-24	-186	No	38	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	104-SD (bg)	-0.00...	-133	-186	No	38	5.263	n/a	n/a	0.02	NP
Fluoride (mg/L)	106-SD (bg)	0.009986	129	186	No	38	2.632	n/a	n/a	0.02	NP
Fluoride (mg/L)	111-SD (bg)	0.000...	76	186	No	38	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	100-SD (bg)	0	-54	-201	No	40	0	n/a	n/a	0.02	NP
Hardness Total (mg/L)	**104-SD (bg)**	**3.617**	**289**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	**106-SD (bg)**	**5.378**	**273**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Hardness Total (mg/L)	111-SD (bg)	0	5	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**100-SD (bg)**	**-43.81**	**-299**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	104-SD (bg)	96.79	157	201	No	40	0	n/a	n/a	0.02	NP
Iron Total (ug/L)	**106-SD (bg)**	**133.3**	**256**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Iron Total (ug/L)	111-SD (bg)	-44.22	-199	-201	No	40	0	n/a	n/a	0.02	NP
Lead Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Lead Total (ug/L)	106-SD (bg)	0	96	201	No	40	97.5	n/a	n/a	0.02	NP
Lead Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	100-SD (bg)	3.08	70	201	No	40	0	n/a	n/a	0.02	NP
Magnesium Total (ug/L)	**104-SD (bg)**	**595.7**	**376**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	**106-SD (bg)**	**446.9**	**249**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Magnesium Total (ug/L)	111-SD (bg)	-31.99	-67	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**100-SD (bg)**	**-6.669**	**-667**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Manganese Total (ug/L)	104-SD (bg)	1.929	171	201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	106-SD (bg)	-2.705	-60	-201	No	40	0	n/a	n/a	0.02	NP
Manganese Total (ug/L)	**111-SD (bg)**	**-0.7201**	**-457**	**-201**	**Yes**	**40**	**45**	**n/a**	**n/a**	**0.02**	**NP**
Mercury Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	104-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	106-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Mercury Total (ug/L)	111-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a	n/a	0.02	NP
Nickel Total (ug/L)	104-SD (bg)	0	198	201	No	40	75	n/a	n/a	0.02	NP
Nickel Total (ug/L)	106-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
Nickel Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	104-SD (bg)	0	-8	-201	No	40	95	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	106-SD (bg)	0	-63	-201	No	40	97.5	n/a	n/a	0.02	NP
Nitrate/Nitrite (mg/L)	111-SD (bg)	0	15	201	No	40	90	n/a	n/a	0.02	NP
pH [Field] (su)	100-SD (bg)	-0.01949	-136	-201	No	40	0	n/a	n/a	0.02	NP
pH [Field] (su)	**104-SD (bg)**	**-0.04514**	**-318**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	**106-SD (bg)**	**-0.03461**	**-354**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
pH [Field] (su)	111-SD (bg)	-0.01585	-138	-201	No	40	0	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	**100-SD (bg)**	**-0.00...**	**-354**	**-201**	**Yes**	**40**	**65**	**n/a**	**n/a**	**0.02**	**NP**
Phosphorus Total (mg/L)	104-SD (bg)	0	116	201	No	40	47.5	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	106-SD (bg)	0.004108	185	201	No	40	15	n/a	n/a	0.02	NP
Phosphorus Total (mg/L)	111-SD (bg)	0	3	201	No	40	72.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a	n/a	0.02	NP
Selenium Total (ug/L)	106-SD (bg)	0	74	201	No	40	97.5	n/a	n/a	0.02	NP
Selenium Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a	n/a	0.02	NP

Trend Test

Bridgeton LF Client: RSI Data: BRIDGETON Printed 1/7/2016, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Silver Total (ug/L)	100-SD (bg)	0	-25	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	104-SD (bg)	0	-28	-186	No	38	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	106-SD (bg)	0	-63	-194	No	39	100	n/a	n/a	0.02	NP
Silver Total (ug/L)	111-SD (bg)	0	-98	-194	No	39	100	n/a	n/a	0.02	NP
Sodium Total (ug/L)	**100-SD (bg)**	**-253.5**	**-546**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**104-SD (bg)**	**3202**	**597**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	**106-SD (bg)**	**-1074**	**-298**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sodium Total (ug/L)	111-SD (bg)	-74.78	-132	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	100-SD (bg)	-0.9396	-91	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**104-SD (bg)**	**26.36**	**365**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Specific Conductance [Field] (u...	106-SD (bg)	-4.65	-136	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	**111-SD (bg)**	**-4.974**	**-243**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	100-SD (bg)	0	29	201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	104-SD (bg)	-1.274	-176	-201	No	40	0	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	**106-SD (bg)**	**-4.359**	**-587**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Sulfate as SO4 (mg/L)	**111-SD (bg)**	**-0.7977**	**-581**	**-201**	**Yes**	**40**	**2.5**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**100-SD (bg)**	**0**	**-303**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	**104-SD (bg)**	**0**	**-270**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Thallium Total (ug/L)	106-SD (bg)	0	-270	-201	Yes	40	100	n/a	n/a	0.02	NP
Thallium Total (ug/L)	**111-SD (bg)**	**0**	**-314**	**-201**	**Yes**	**40**	**100**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**100-SD (bg)**	**-2.689**	**-301**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	**104-SD (bg)**	**16.66**	**360**	**201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Dissolved Solids [TDS] (m...	106-SD (bg)	-7.344	-193	-201	No	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	**111-SD (bg)**	**-2.784**	**-253**	**-201**	**Yes**	**40**	**0**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	100-SD (bg)	0	-82	-201	No	40	32.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	**104-SD (bg)**	**0.2006**	**433**	**201**	**Yes**	**40**	**50**	**n/a**	**n/a**	**0.02**	**NP**
Total Organic Carbon [TOC] (mg/L)	106-SD (bg)	0.07738	270	201	Yes	40	35	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	111-SD (bg)	0	145	201	No	40	42.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	104-SD (bg)	0	159	201	No	40	87.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	106-SD (bg)	0	109	201	No	40	90	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	111-SD (bg)	0	9	201	No	40	97.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	100-SD (bg)	0	-218	-201	Yes	40	82.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	104-SD (bg)	0	-111	-201	No	40	77.5	n/a	n/a	0.02	NP
Zinc Total (ug/L)	106-SD (bg)	0	-166	-201	No	40	80	n/a	n/a	0.02	NP
Zinc Total (ug/L)	111-SD (bg)	0	-162	-201	No	40	82.5	n/a	n/a	0.02	NP

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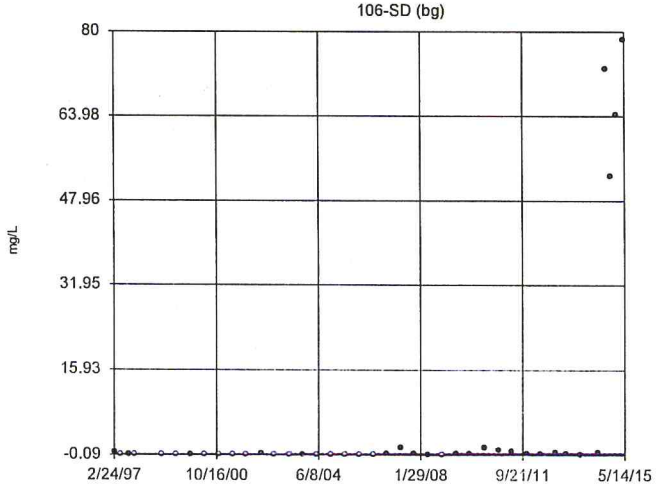
Hollow symbols indicate censored values.

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 0.02107 units per year.

Mann-Kendall statistic = 403 critical = 201

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

Constituent: Ammonia as N Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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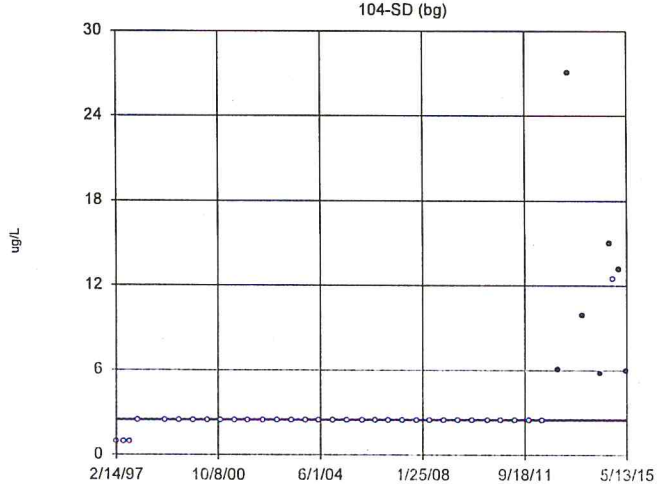
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = 341 critical = 201

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

Constituent: Arsenic Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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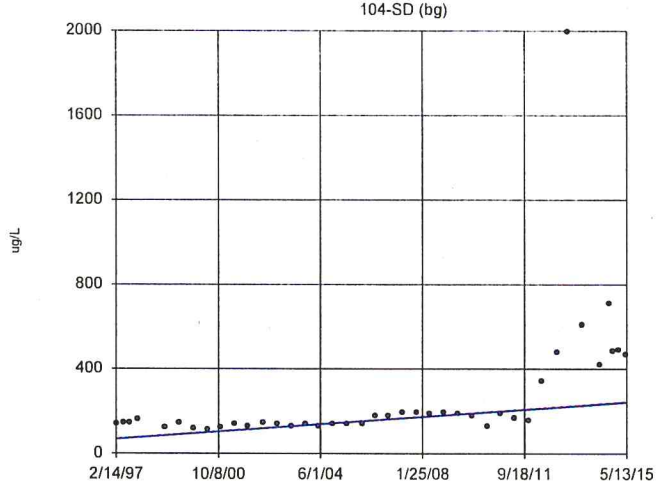
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 9.667 units per year.

Mann-Kendall statistic = 437 critical = 201

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

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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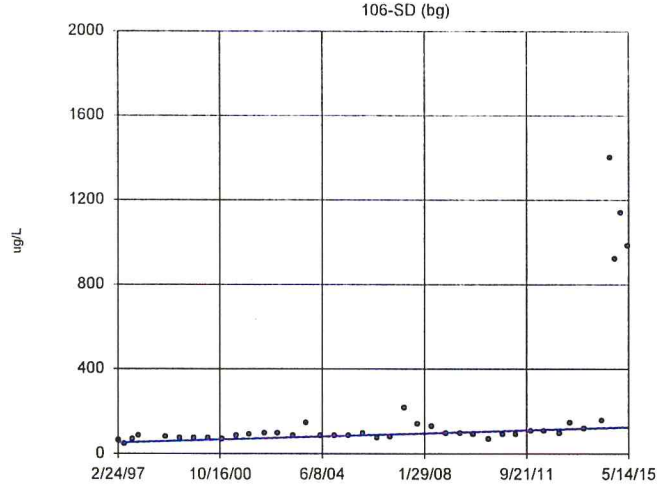
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 4.028 units per year.

Mann-Kendall statistic = 455 critical = 201

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

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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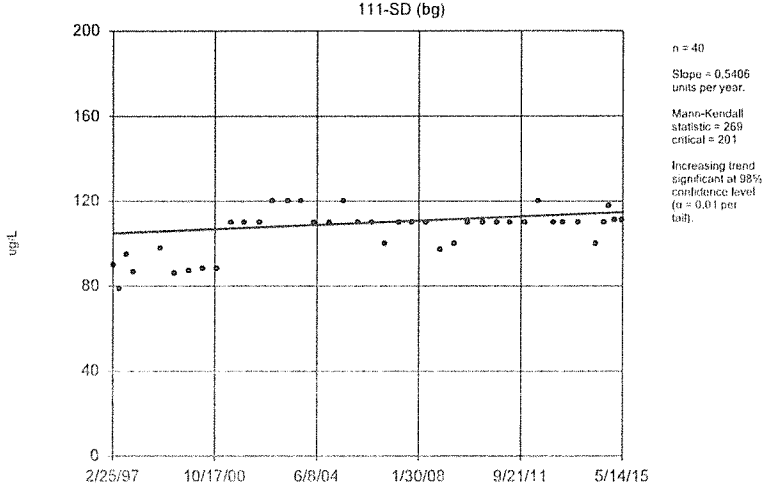
Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = 0.5406 units per year.

Mann-Kendall statistic = 269 critical = 201

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

Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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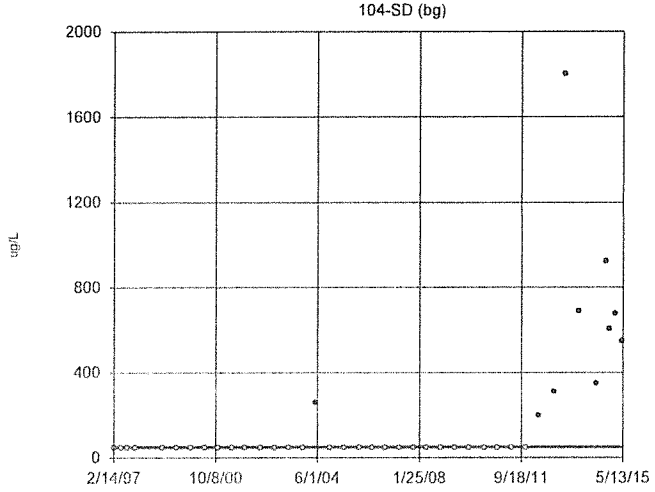
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = 283 critical = 201

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

Constituent: Boron Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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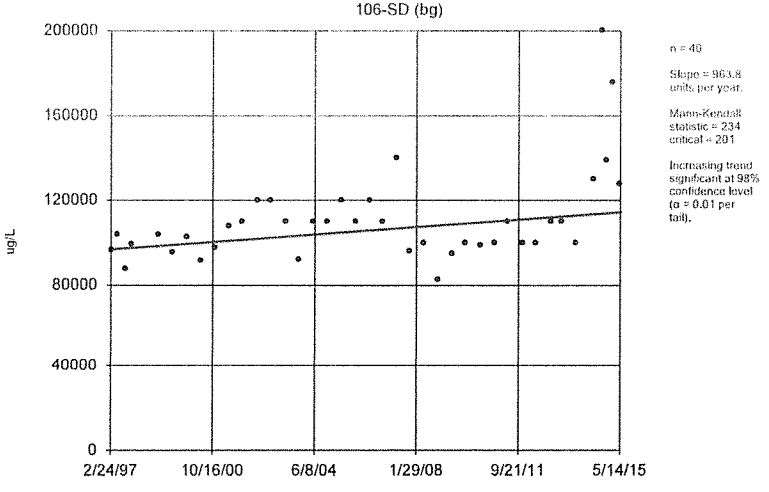
Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 963.8 units per year.

Mann-Kendall statistic = 234 critical = 201

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

Constituent: Calcium Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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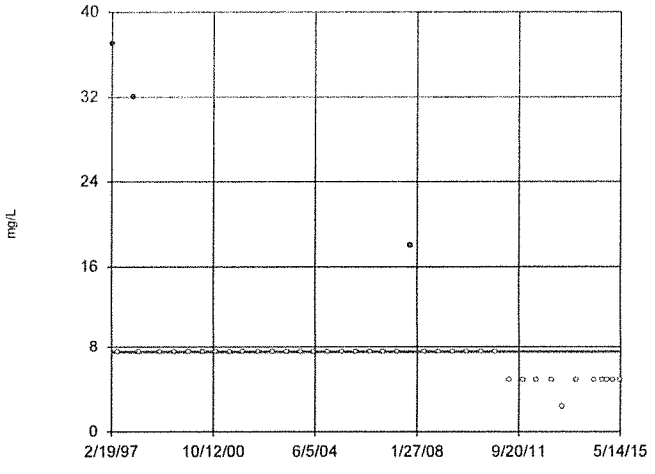
Sen's Slope Estimator

100-SD (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = -356 critical = -201

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

Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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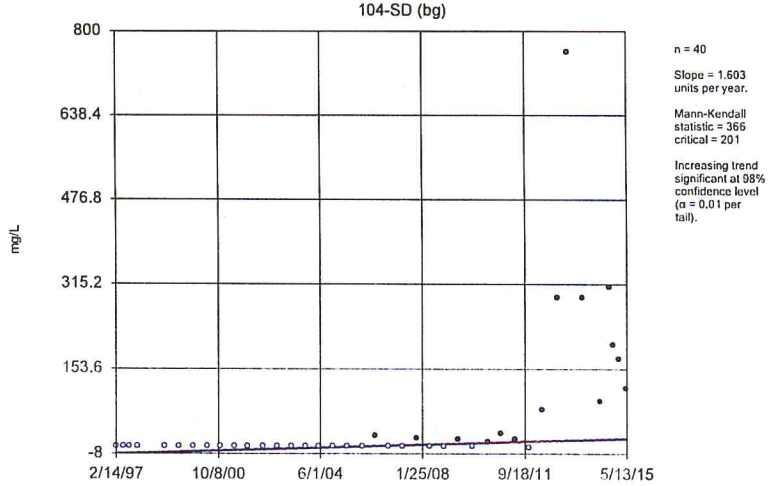
Sen's Slope Estimator

104-SD (bg)



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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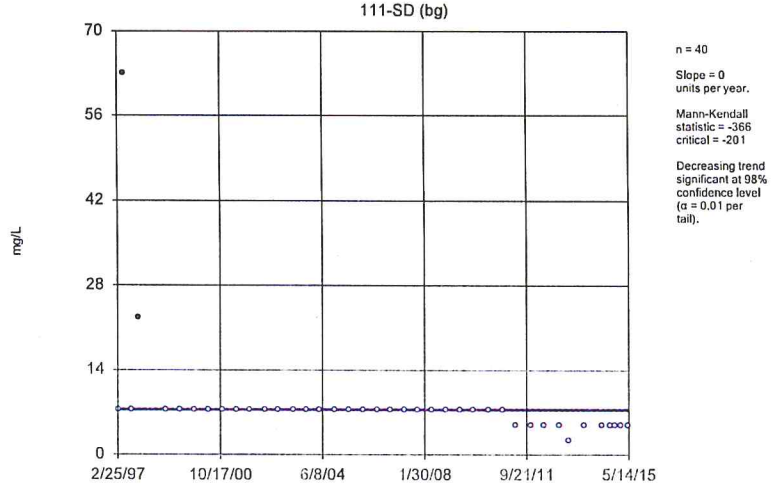
Hollow symbols indicate censored values.

Sen's Slope Estimator

111-SD (bg)



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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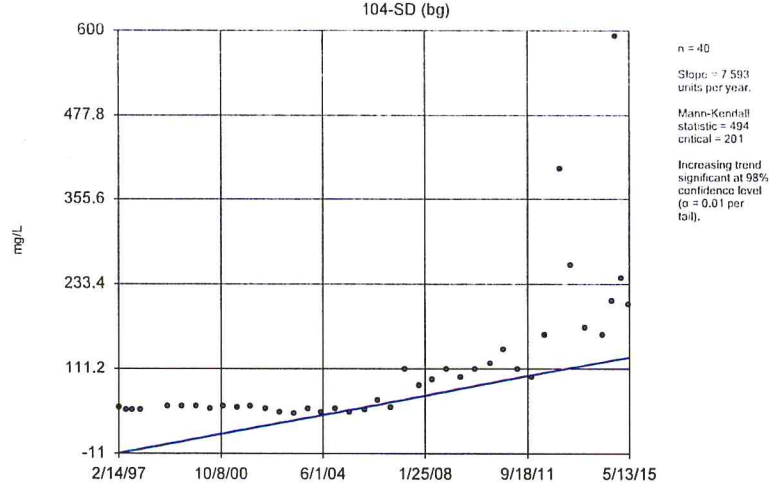
Sen's Slope Estimator

104-SD (bg)



Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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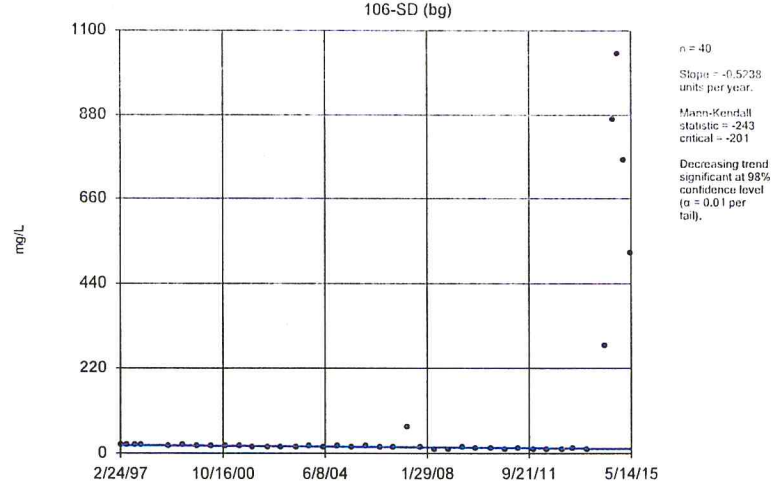
Sen's Slope Estimator

106-SD (bg)



Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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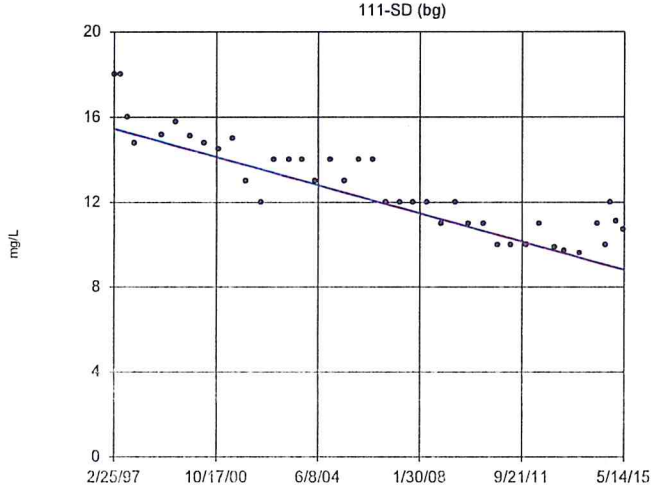
Sen's Slope Estimator

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

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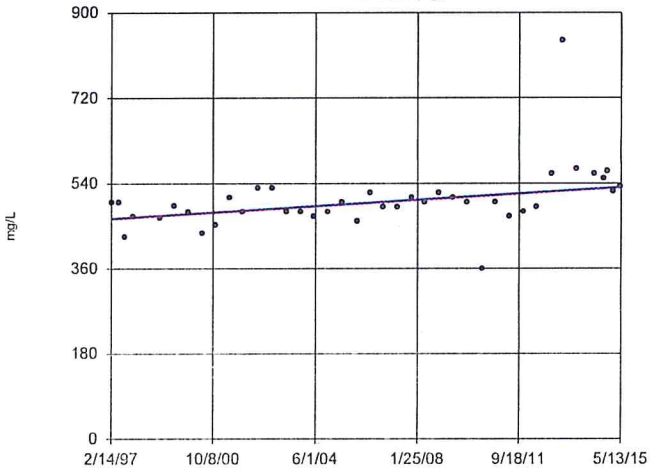
Sen's Slope Estimator

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

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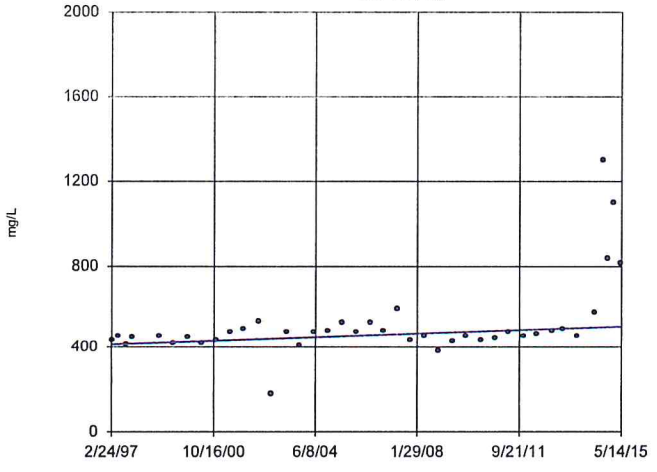
Sen's Slope Estimator

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).

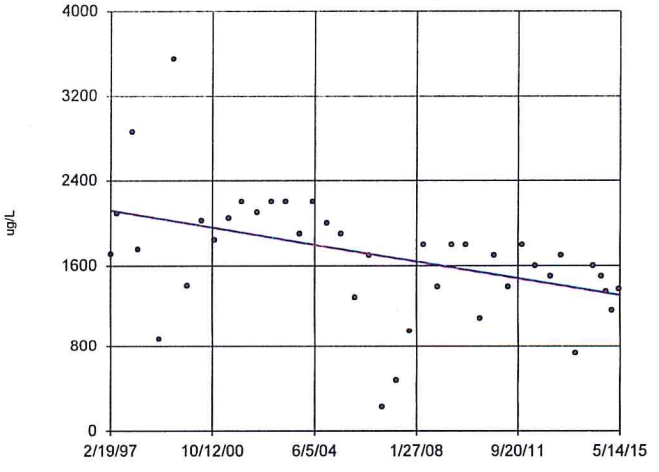
Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM

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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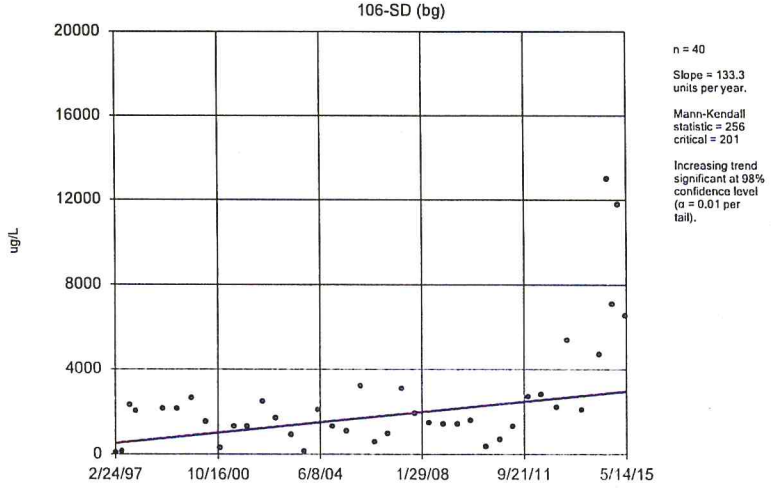
Sen's Slope Estimator

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

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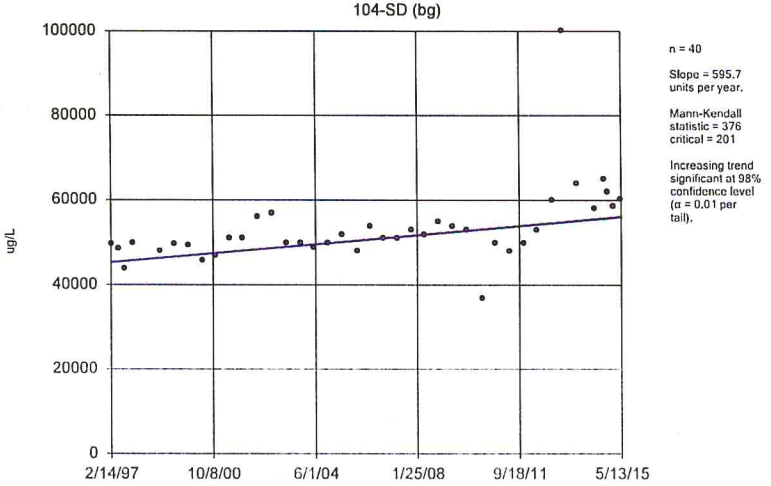
Sen's Slope Estimator

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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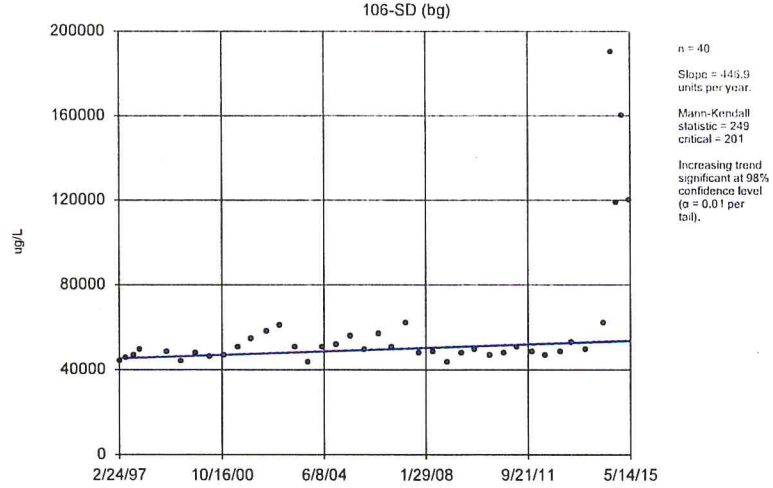
Sen's Slope Estimator

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

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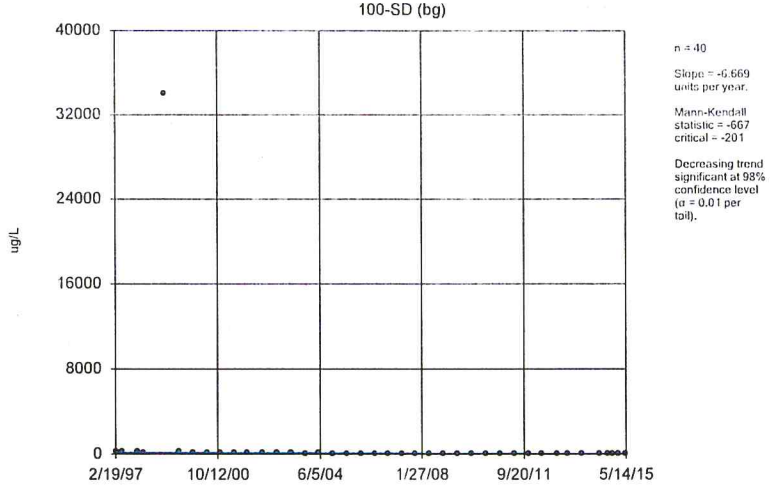
Sen's Slope Estimator

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).

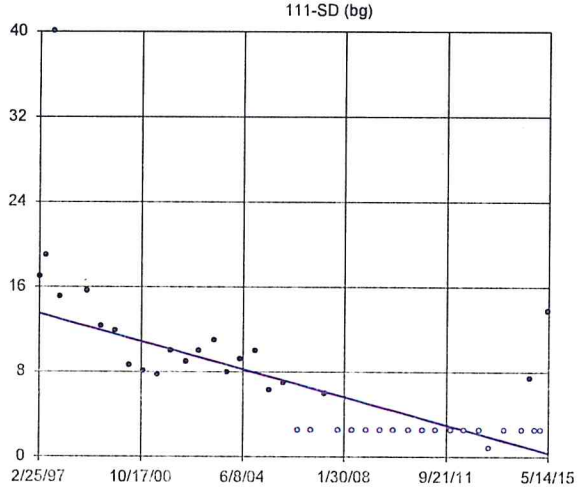
Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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 = -0.7201 units per year.

Mann-Kendall statistic = -457 critical = -201

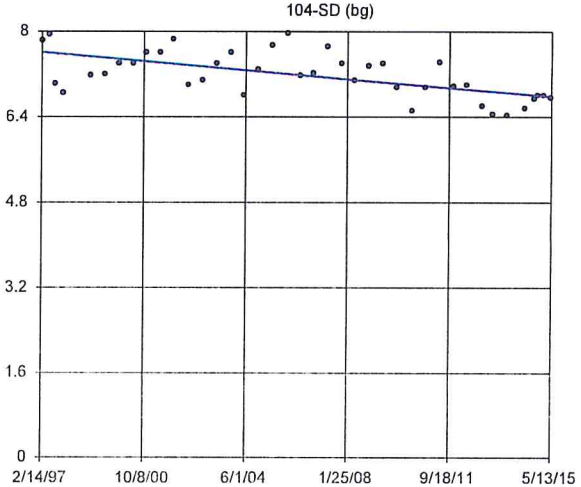
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

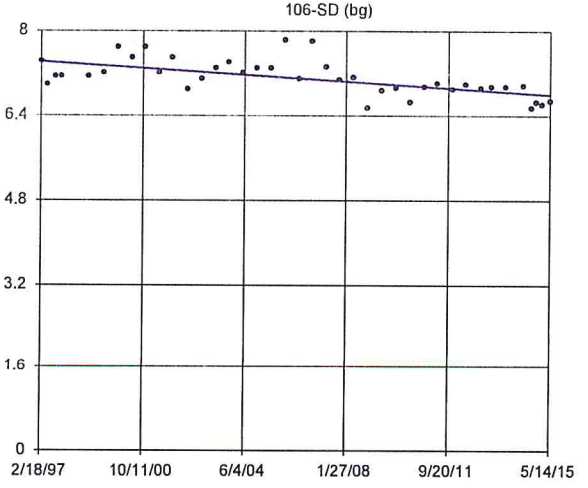
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

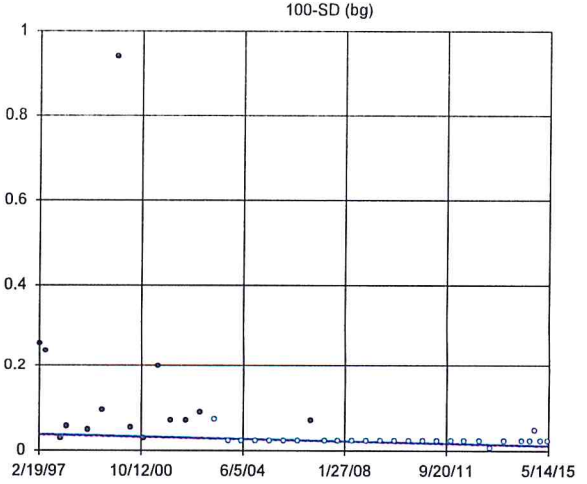
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

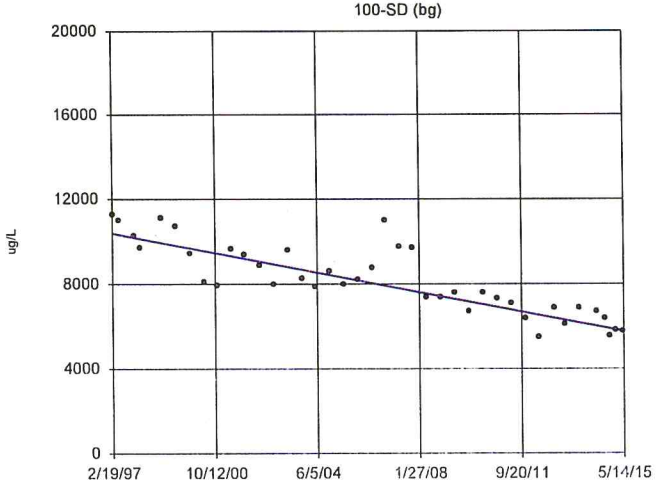
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

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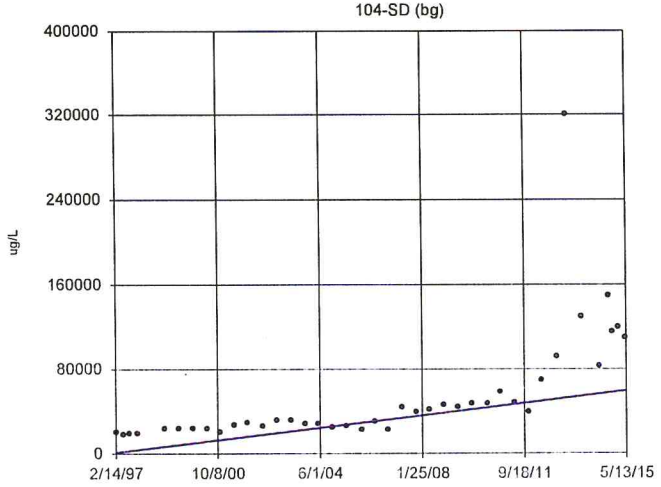
Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 3202 units per year.

Mann-Kendall statistic = 597 critical = 201

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

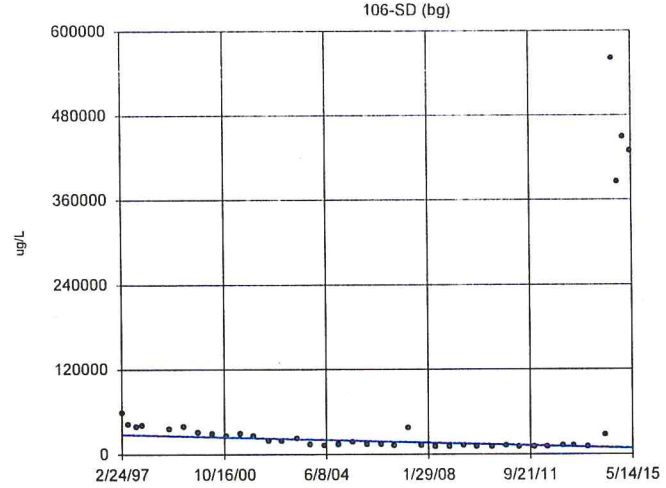
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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).

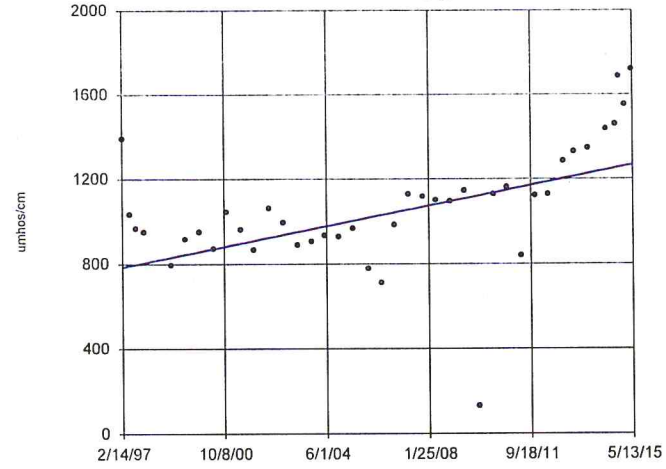
Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM

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).

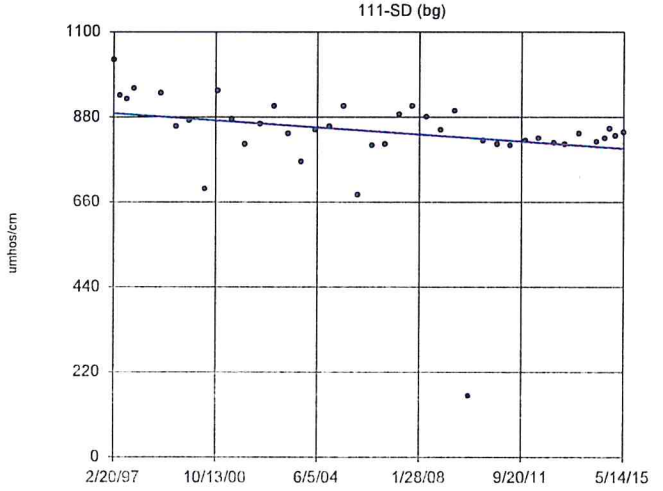
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM

Bridgeton LF Client: RSI Data: BRIDGETON

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

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

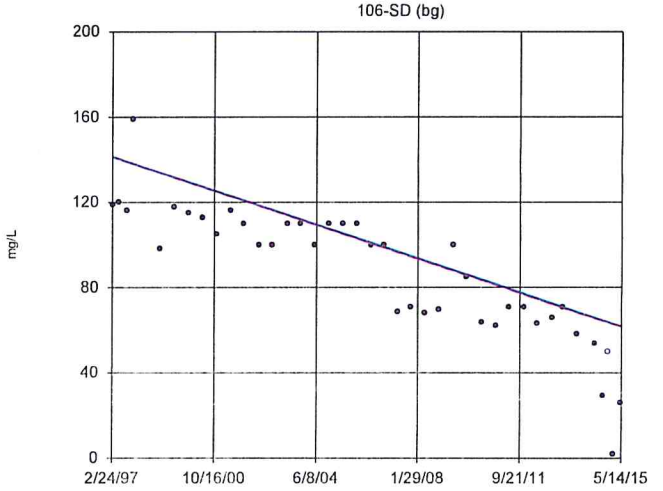
Bridgeton LF Client: RSI Data: BRIDGETON

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 = -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

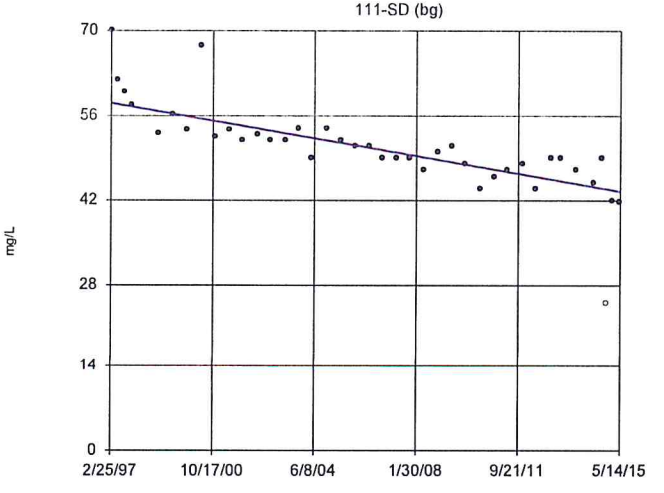
Bridgeton LF Client: RSI Data: BRIDGETON

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

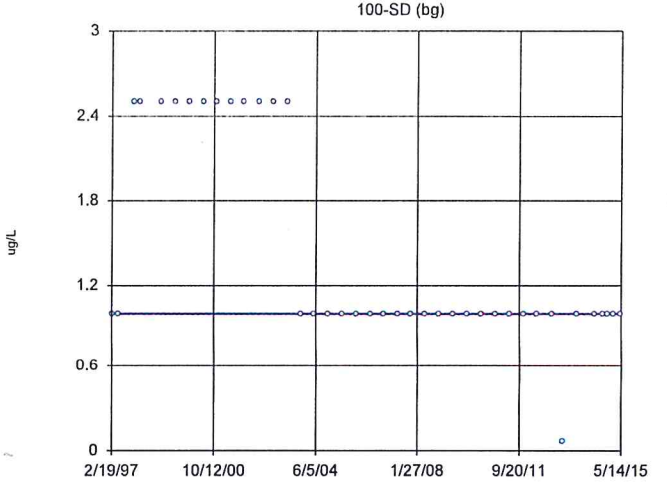
Bridgeton LF Client: RSI Data: BRIDGETON

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).

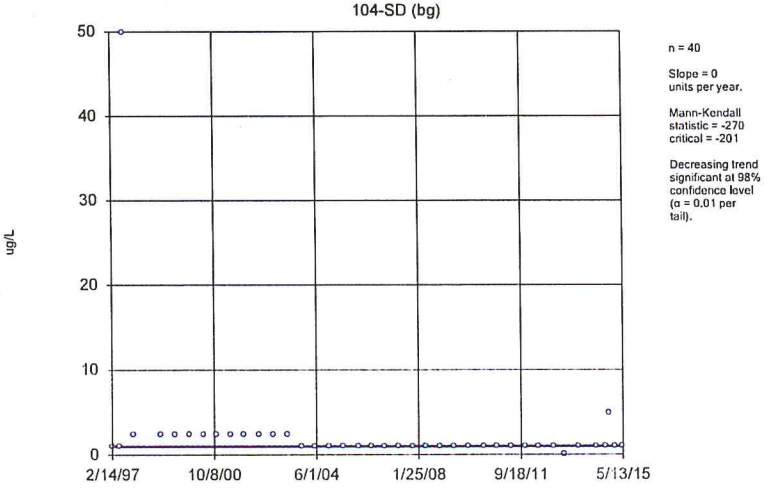
Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM

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

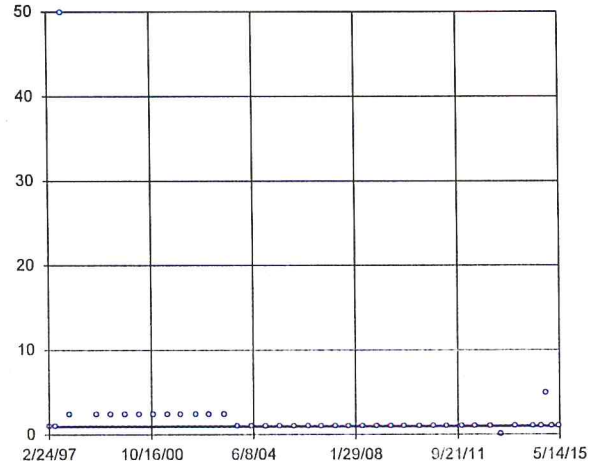
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

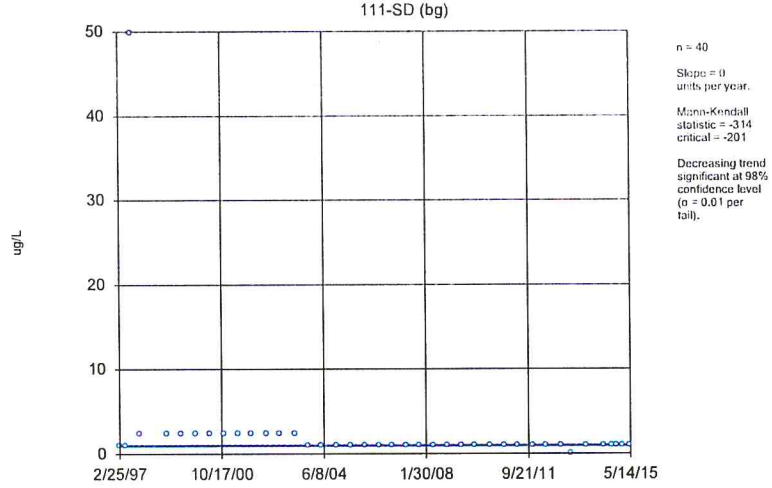
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

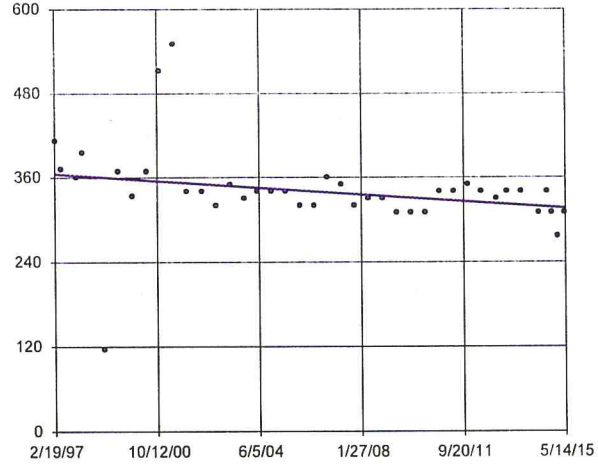
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

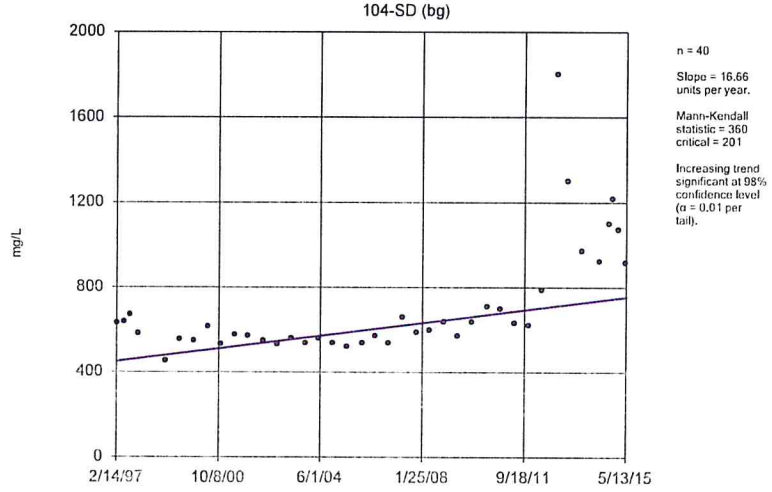
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

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

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 16.66 units per year.

Mann-Kendall statistic = 360 critical = 201

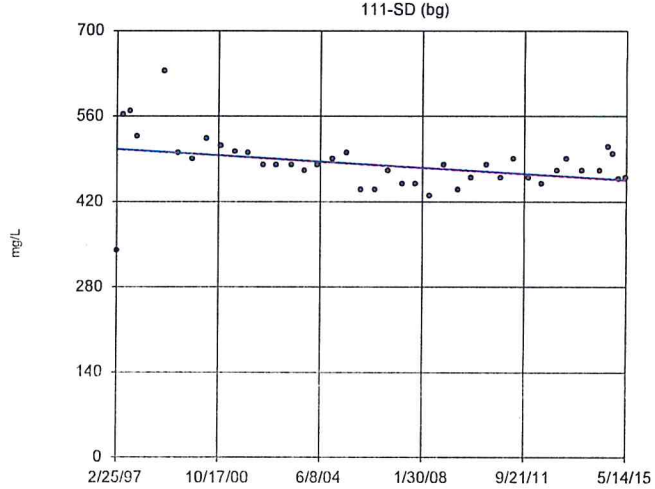
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

111-SD (bg)



n = 40

Slope = -2.784 units per year.

Mann-Kendall statistic = -253 critical = -201

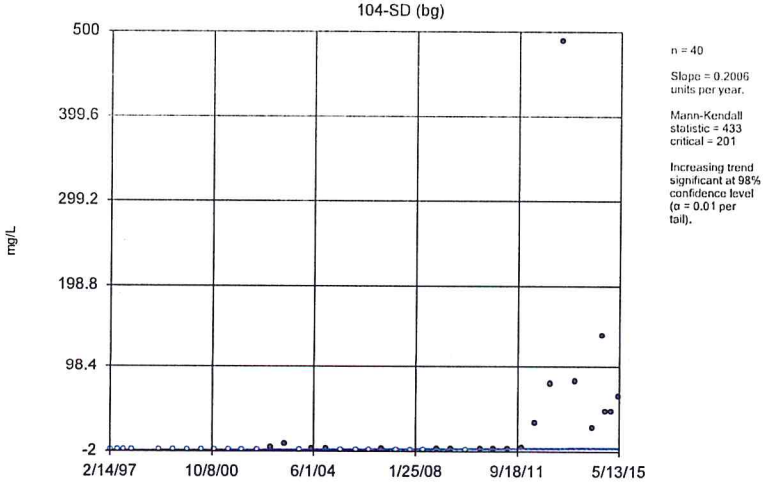
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

104-SD (bg)



n = 40

Slope = 0.2006 units per year.

Mann-Kendall statistic = 433 critical = 201

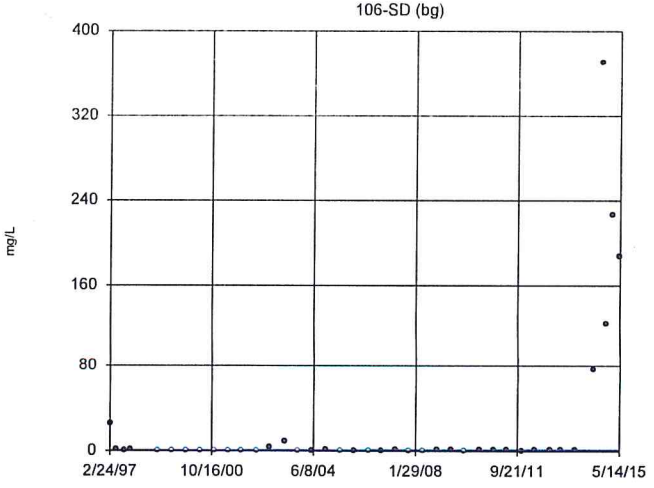
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

106-SD (bg)



n = 40

Slope = 0.07738 units per year.

Mann-Kendall statistic = 270 critical = 201

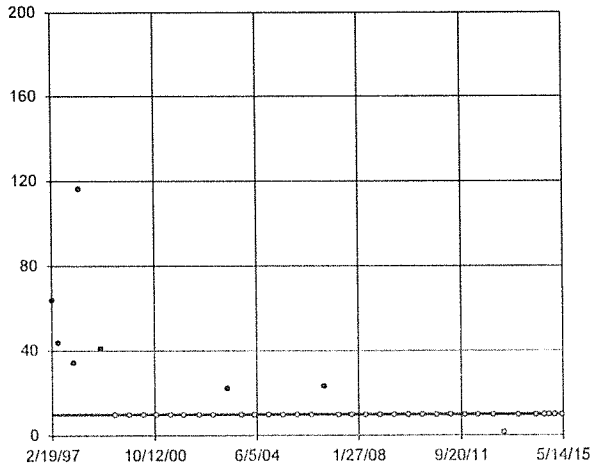
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sanitas™ v.9.5.20 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 = -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 3/14/2017, 6:56 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)	104-SD	66	n/a	2/9/2017	45	No	44	n/a	n/a	29.55	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Ammonia as N (mg/L)	100-SD	0.61	n/a	2/8/2017	0.3	No	41	0.1895	0.07338	0	None	x^2	0.0001937	Param Intra 1 of 2
Ammonia as N (mg/L)	111-SD	0.35	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SD	50	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SD	50	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SD	2.5	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	111-SD	50	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SD	27	n/a	2/9/2017	16.3	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SD	12	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	77.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SD	15	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	111-SD	5.3	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SD	340	n/a	2/8/2017	321	No	44	7.5e9	2.2e9	0	None	x^4	0.0001937	Param Intra 1 of 2
Beryllium Total (ug/L)	104-SD	5.0	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SD	5.0	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	100-SD	2.2	n/a	2/8/2017	1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	111-SD	1.0	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	104-SD	1800	n/a	2/9/2017	1190	No	44	n/a	n/a	68.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SD	3700	n/a	2/8/2017	781	No	44	n/a	n/a	77.27	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	100-SD	50	n/a	2/8/2017	50ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	111-SD	100	n/a	2/7/2017	50ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SD	2.5	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SD	2.5	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	100-SD	2.5	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	111-SD	2.5	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Calcium Total (ug/L)	104-SD	170000	n/a	2/9/2017	110000	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Calcium Total (ug/L)	100-SD	88000	n/a	2/8/2017	77500	No	44	11.24	0.05746	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Calcium Total (ug/L)	111-SD	100000	n/a	2/7/2017	90200	No	42	8.2e9	8.6e8	0	None	x^2	0.0001937	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	2/8/2017	87.1	No	44	n/a	n/a	68.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SD	37	n/a	2/8/2017	5ND	No	44	n/a	n/a	93.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	111-SD	63	n/a	2/7/2017	5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chloride (mg/L)	106-SD	1000	n/a	2/8/2017	163	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Chloride (mg/L)	100-SD	13	n/a	2/8/2017	1.5	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chloride (mg/L)	111-SD	19	n/a	2/7/2017	11.1	No	44	2.521	0.1686	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Chromium Total (ug/L)	104-SD	21	n/a	2/9/2017	13.2	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	106-SD	42	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	100-SD	13	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	90.91	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Chromium Total (ug/L)	111-SD	22	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	104-SD	10	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	106-SD	12	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	84.09	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	100-SD	10	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Cobalt Total (ug/L)	111-SD	10	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	104-SD	13	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	106-SD	47	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	100-SD	10	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Copper Total (ug/L)	111-SD	10	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	104-SD	1.2	n/a	2/9/2017	0.76	No	27	0.8205	0.1528	0	None	No	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	106-SD	1.6	n/a	2/8/2017	1.2	No	26	1.284	0.4504	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	100-SD	2.4	n/a	2/8/2017	1.9	No	30	4.148	0.6201	0	None	x^2	0.0001937	Param Intra 1 of 2
Fluoride (mg/L)	111-SD	2.4	n/a	2/7/2017	1.9	No	29	8.699	1.795	0	None	x^3	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	100-SD	380	n/a	2/8/2017	341	No	44	5.819	0.05011	0	None	ln(x)	0.0001937	Param Intra 1 of 2

Prediction Limit

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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	2/7/2017	440	No	42	6.095	0.04773	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	104-SD	47000	n/a	2/9/2017	14000	No	44	7.303	1.434	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	100-SD	2900	n/a	2/8/2017	661	No	43	1543	556.1	0	None	No	0.0001937	Param Intra 1 of 2
Iron Total (ug/L)	111-SD	3500	n/a	2/7/2017	1540	No	44	7.845	3.072	4.545	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Lead Total (ug/L)	104-SD	25	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	106-SD	25	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	100-SD	2.5	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Lead Total (ug/L)	111-SD	25	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Magnesium Total (ug/L)	100-SD	40000	n/a	2/8/2017	35800	No	44	10.48	0.05027	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Magnesium Total (ug/L)	111-SD	60000	n/a	2/7/2017	52000	No	43	10.88	0.04863	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	104-SD	190	n/a	2/9/2017	126	No	44	4.758	0.4227	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	106-SD	570	n/a	2/8/2017	22.3	No	44	5.108	1.323	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	100-SD	350	n/a	2/8/2017	52	No	43	4.615	0.5129	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Manganese Total (ug/L)	111-SD	40	n/a	2/7/2017	9.7	No	44	n/a	n/a	47.73	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Mercury Total (ug/L)	104-SD	0.10	n/a	2/9/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	106-SD	0.10	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	100-SD	0.10	n/a	2/8/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Mercury Total (ug/L)	111-SD	0.10	n/a	2/7/2017	0.1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	104-SD	84	n/a	2/9/2017	62.7	No	44	n/a	n/a	68.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	106-SD	70	n/a	2/8/2017	5ND	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	100-SD	20	n/a	2/8/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	111-SD	20	n/a	2/7/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	104-SD	1.3	n/a	2/9/2017	0.05ND	No	44	n/a	n/a	95.45	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	106-SD	0.30	n/a	2/8/2017	0.05ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	100-SD	0.050	n/a	2/8/2017	0.05ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Nitrate/Nitrite (mg/L)	111-SD	5.0	n/a	2/7/2017	0.05ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
pH [Field] (su)	100-SD	8.4	6.6	2/8/2017	7.24	No	43	1.992	0.04175	0	None	ln(x)	0.00009683	Param Intra 1 of 2
pH [Field] (su)	111-SD	8	6.5	2/7/2017	7.1	No	43	1.976	0.04495	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Phosphorus Total (mg/L)	104-SD	0.29	n/a	2/9/2017	0.14	No	44	-3.173	0.8043	43.18	Kaplan-Meier	ln(x)	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	106-SD	0.23	n/a	2/8/2017	0.055	No	44	0.1016	0.05304	13.64	None	No	0.0001937	Param Intra 1 of 2
Phosphorus Total (mg/L)	100-SD	0.94	n/a	2/8/2017	0.025ND	No	44	n/a	n/a	68.18	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Phosphorus Total (mg/L)	111-SD	0.37	n/a	2/7/2017	0.025ND	No	44	n/a	n/a	75	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	104-SD	50	n/a	2/9/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	106-SD	50	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	100-SD	2.5	n/a	2/8/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Selenium Total (ug/L)	111-SD	50	n/a	2/7/2017	2.5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SD	12	n/a	2/9/2017	2.5ND	No	42	n/a	n/a	100	n/a	n/a	0.001072	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SD	12	n/a	2/8/2017	2.5ND	No	43	n/a	n/a	100	n/a	n/a	0.001032	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	100-SD	2.5	n/a	2/8/2017	2.5ND	No	42	n/a	n/a	100	n/a	n/a	0.001072	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	111-SD	5.0	n/a	2/7/2017	2.5ND	No	43	n/a	n/a	100	n/a	n/a	0.001032	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	106-SD	620000	n/a	2/8/2017	141000	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Sodium Total (ug/L)	100-SD	13000	n/a	2/8/2017	6820	No	44	8.979	0.2057	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	111-SD	25000	n/a	2/7/2017	18200	No	42	9.929	0.08574	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	106-SD	6100	n/a	2/8/2017	1848	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SD	710	n/a	2/8/2017	629	No	43	397901	42367	0	None	x^2	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	111-SD	1000	n/a	2/7/2017	833	No	43	847.1	66.21	0	None	No	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	104-SD	100	n/a	2/9/2017	1.6	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Sulfate (mg/L)	106-SD	160	n/a	2/8/2017	47.8	No	44	81.72	34.53	2.273	None	No	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	100-SD	15	n/a	2/8/2017	9.8	No	44	2.322	0.1513	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	111-SD	64	n/a	2/7/2017	44.1	No	42	3.918	0.09878	0	None	ln(x)	0.0001937	Param Intra 1 of 2

Prediction Limit

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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	50	n/a	2/9/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SD	50	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	100-SD	2.5	n/a	2/8/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	111-SD	50	n/a	2/7/2017	1ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	106-SD	3200	n/a	2/8/2017	895	No	44	n/a	n/a	0	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SD	400	n/a	2/8/2017	316	No	41	5.816	0.07183	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	111-SD	560	n/a	2/7/2017	410	No	42	6.171	0.06167	0	None	ln(x)	0.0001937	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SD	29	n/a	2/8/2017	0.5ND	No	44	n/a	n/a	29.55	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	111-SD	30	n/a	2/7/2017	0.5ND	No	44	n/a	n/a	43.18	n/a	n/a	0.0009916	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	104-SD	38	n/a	2/9/2017	13.3	No	44	n/a	n/a	81.82	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SD	42	n/a	2/8/2017	5ND	No	44	n/a	n/a	88.64	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	100-SD	5.0	n/a	2/8/2017	5ND	No	44	n/a	n/a	100	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	111-SD	33	n/a	2/7/2017	5ND	No	44	n/a	n/a	97.73	n/a	n/a	0.0009916	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	104-SD	96	n/a	2/9/2017	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	2/8/2017	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	2/8/2017	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	2/7/2017	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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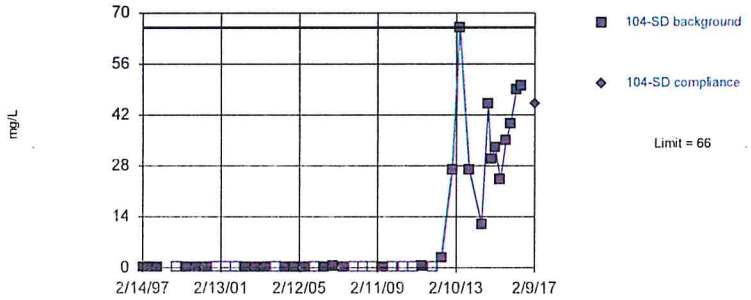
Within Limit

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 44 background values. 29.55% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 6:48 AM

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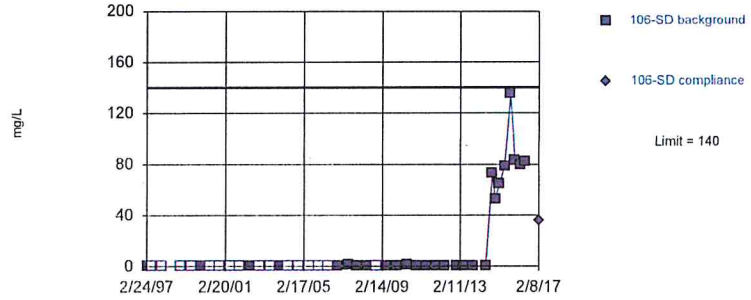
Within Limit

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 44 background values. 36.36% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 6:48 AM

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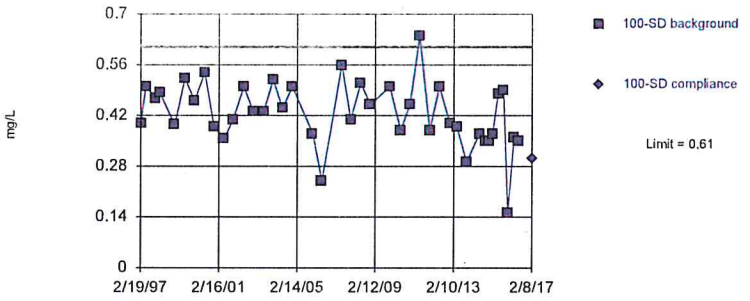
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.1895, Std. Dev.=0.07338, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9741, critical = 0.92. Kappa = 2.421 (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 3/14/2017 6:48 AM

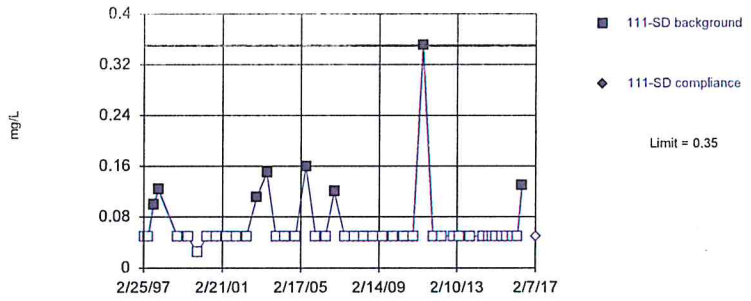
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 3/14/2017 6:48 AM

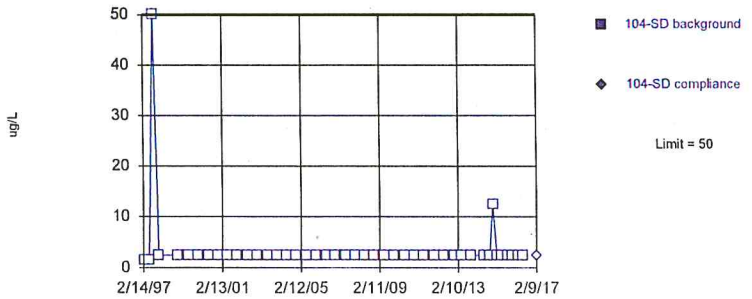
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 3/14/2017 6:48 AM

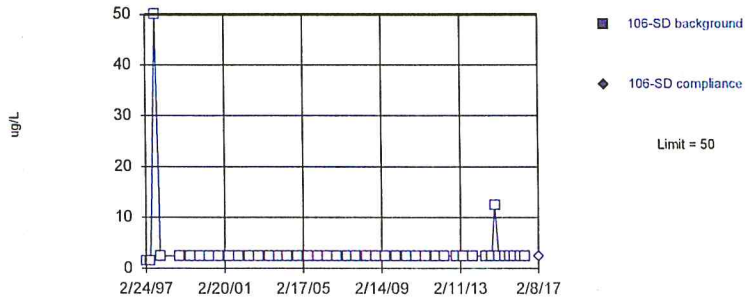
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 3/14/2017 6:48 AM

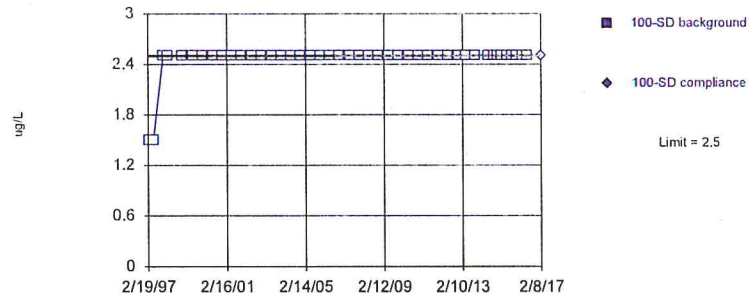
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 3/14/2017 6:48 AM

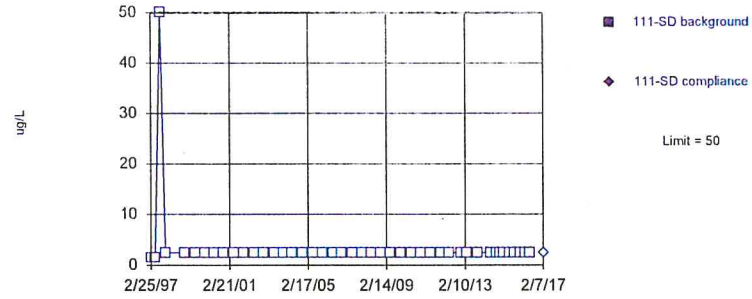
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 3/14/2017 6:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric

Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

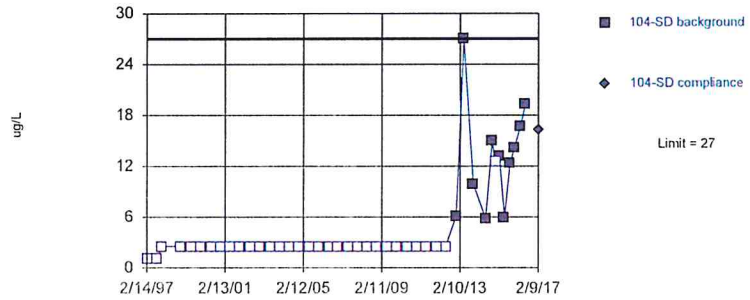
Constituent: Antimony Total Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



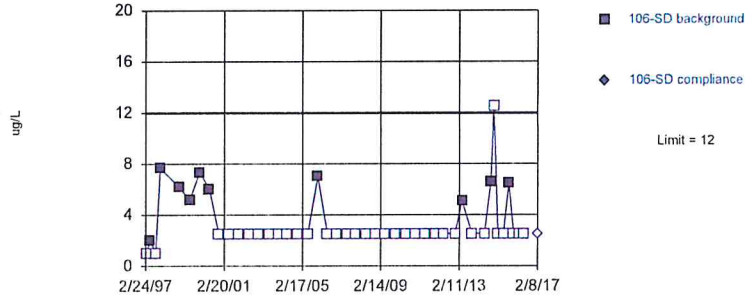
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



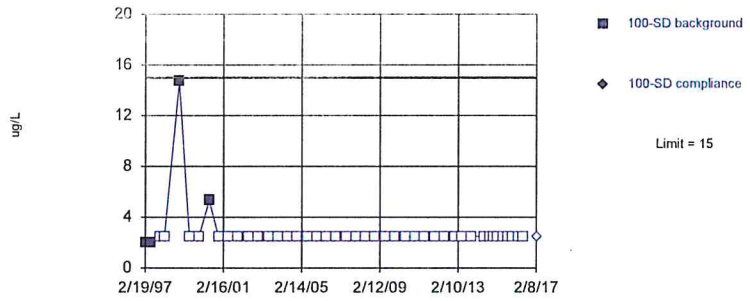
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 77.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



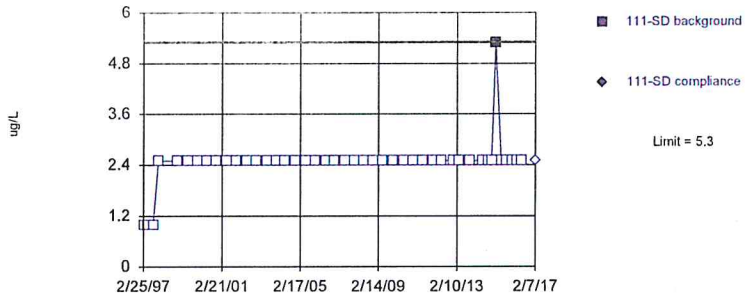
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

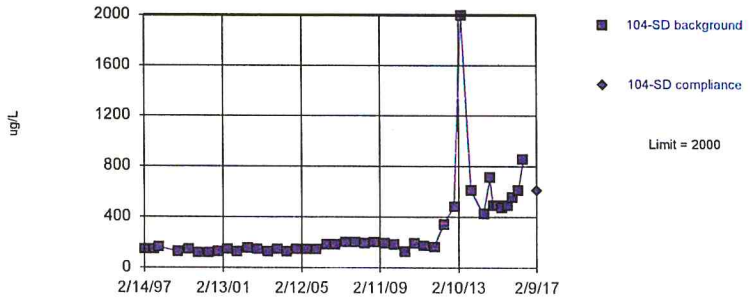
Constituent: Arsenic Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 3/14/2017 6:49 AM

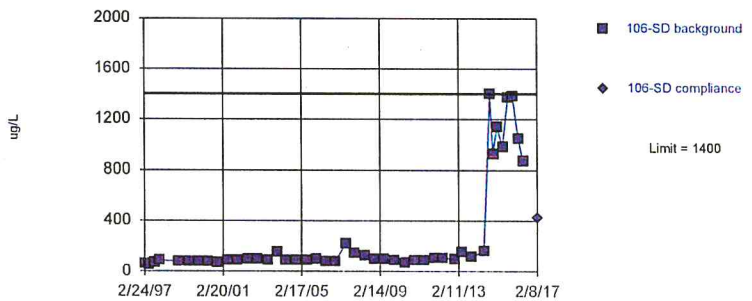
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 3/14/2017 6:49 AM

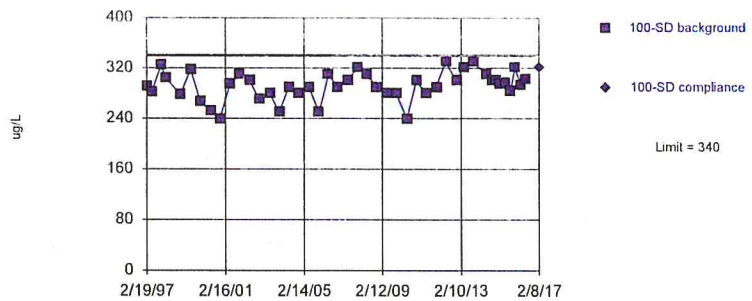
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=7.5e9, Std. Dev.=2.2e9, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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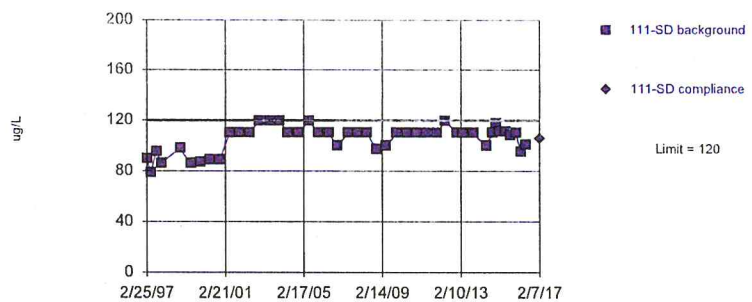
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 3/14/2017 6:49 AM

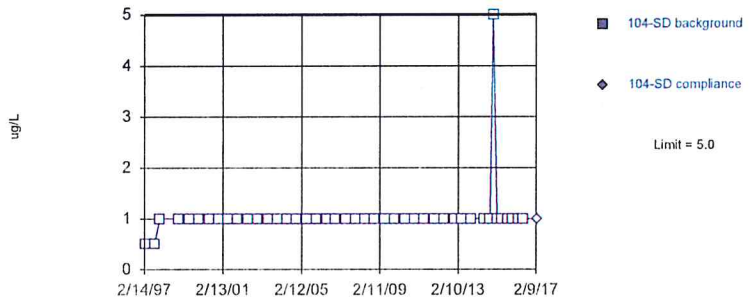
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 6:49 AM

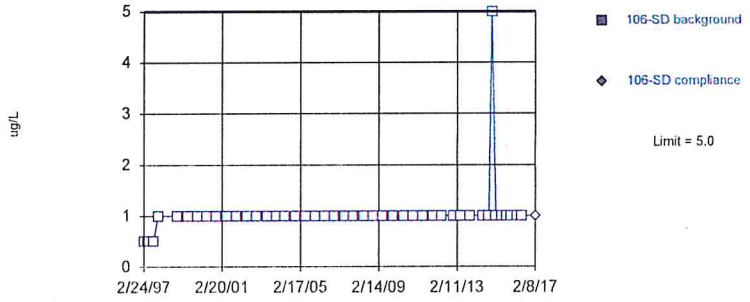
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett [illegible] Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 6:49 AM

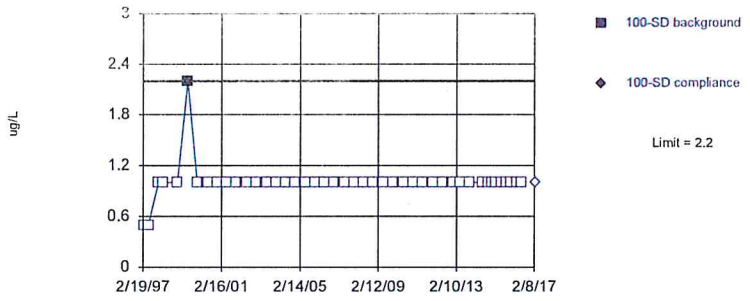
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 6:49 AM

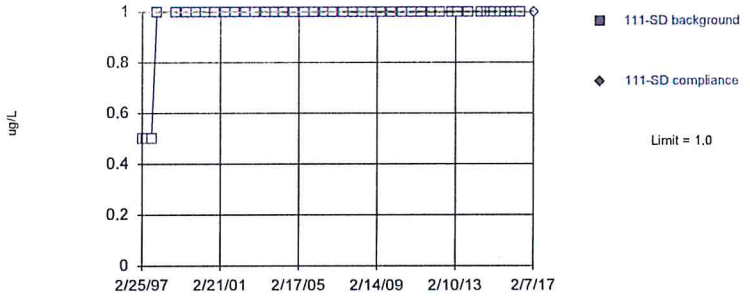
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 3/14/2017 6:49 AM

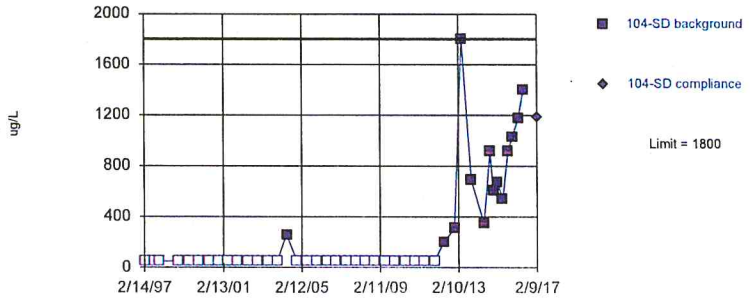
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 68.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 6:49 AM

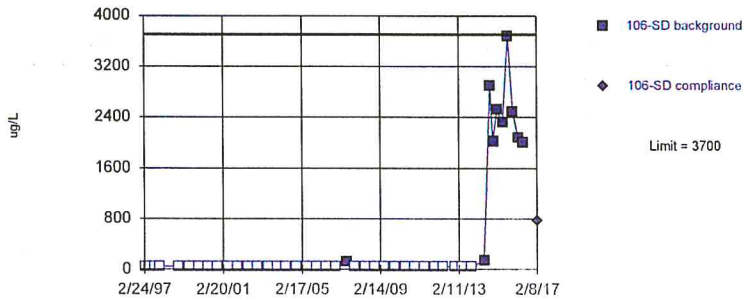
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 77.27% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 6:49 AM

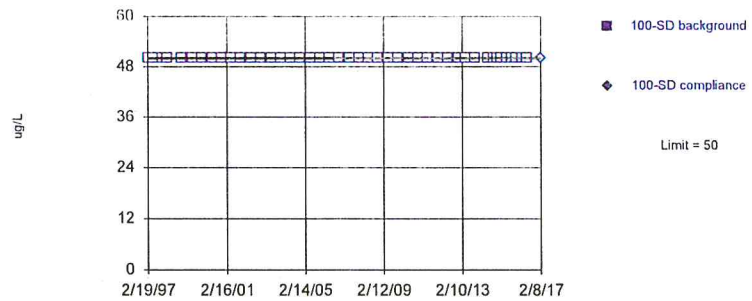
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 6:49 AM

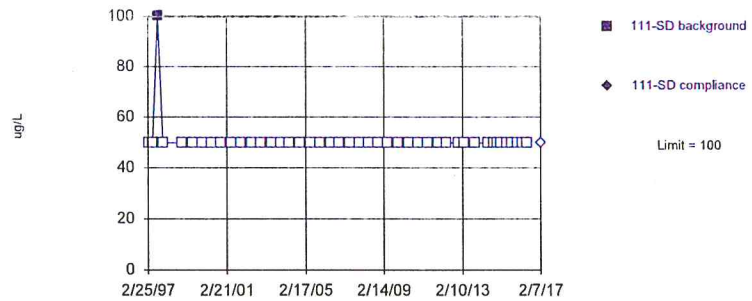
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 3/14/2017 6:49 AM

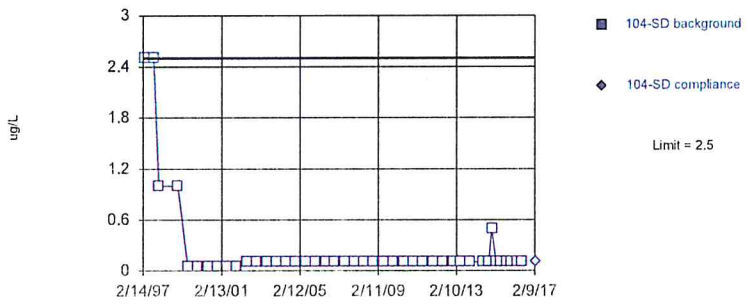
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

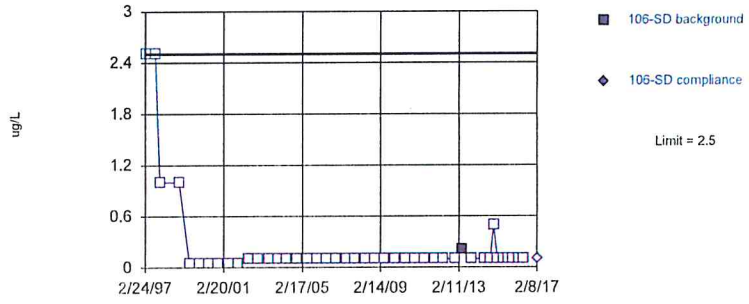
Constituent: Cadmium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

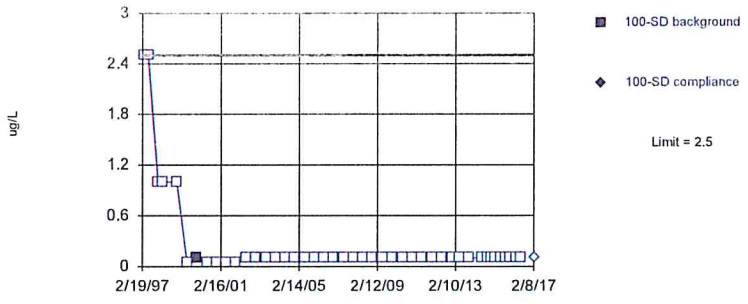
Constituent: Cadmium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

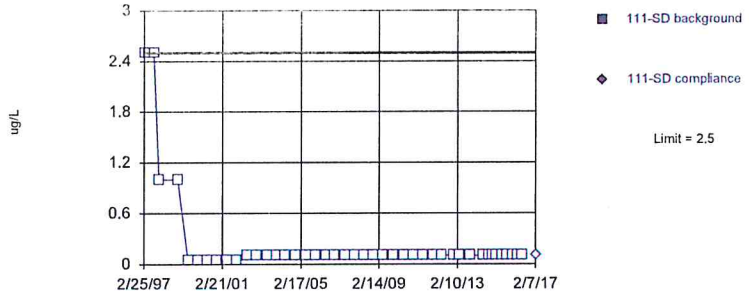
Constituent: Cadmium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

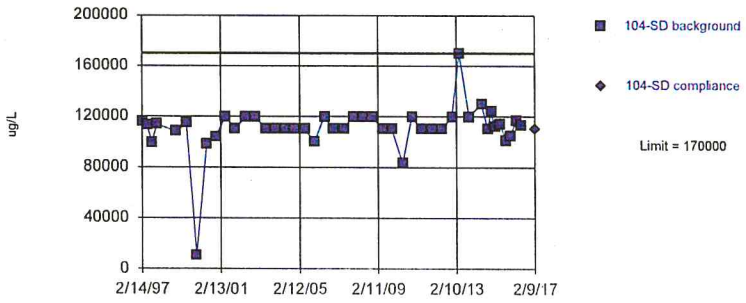
Constituent: Cadmium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 14 background values. Well constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (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 3/14/2017 6:49 AM

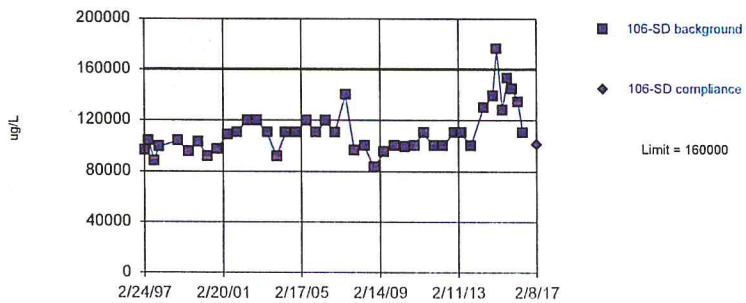
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation). Mean=11.61, Std. Dev.=0.1551, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9295, critical = 0.922. Kappa = 2.41 (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 3/14/2017 6:49 AM

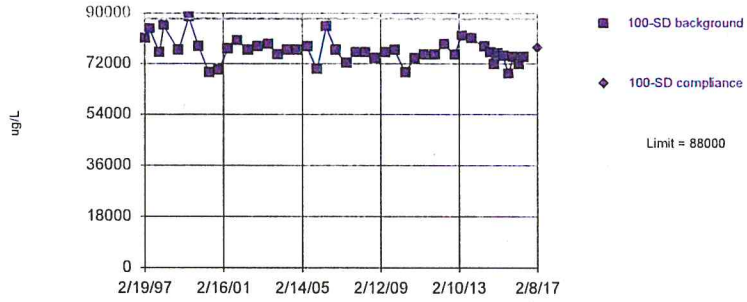
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.24, Std. Dev.=0.05746, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9624, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

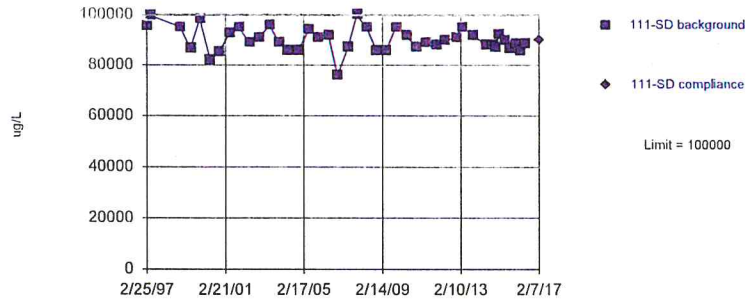
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=8.2e9, Std. Dev.=8.6e8, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.922. Kappa = 2.415 (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 3/14/2017 6:49 AM

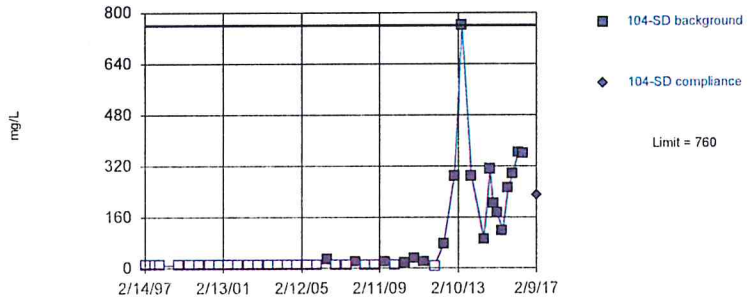
Bridgeton LF Client: RSI

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 56.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

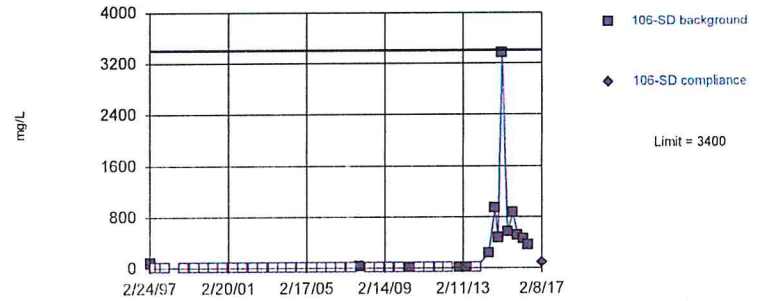
Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 68.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

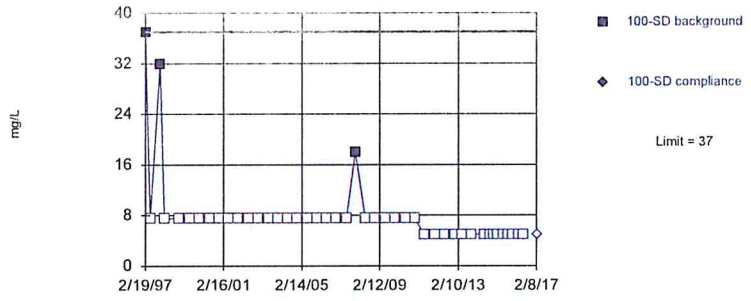
Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 93.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

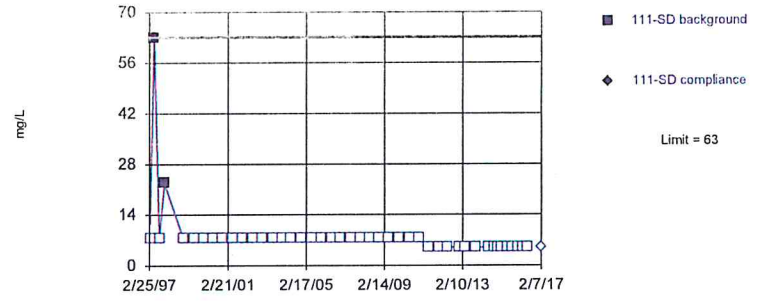
Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

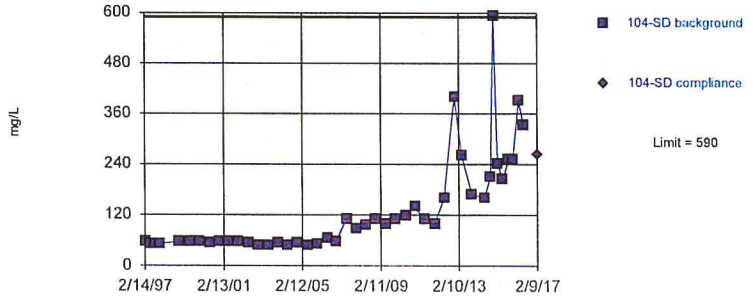
Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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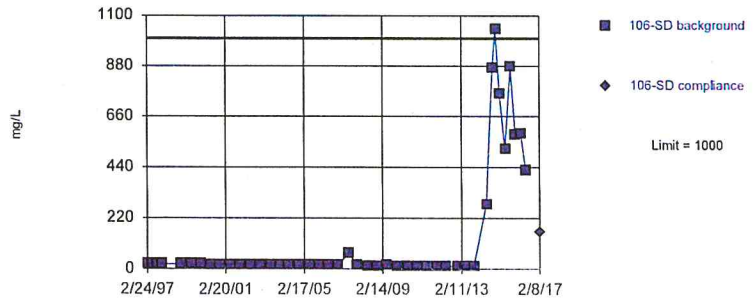
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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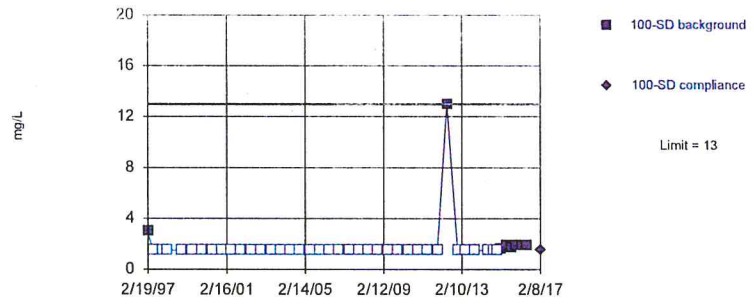
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 6:49 AM

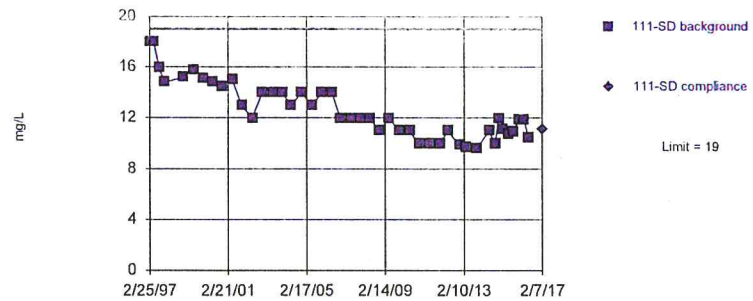
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.521, Std. Dev.=0.1686, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9419, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

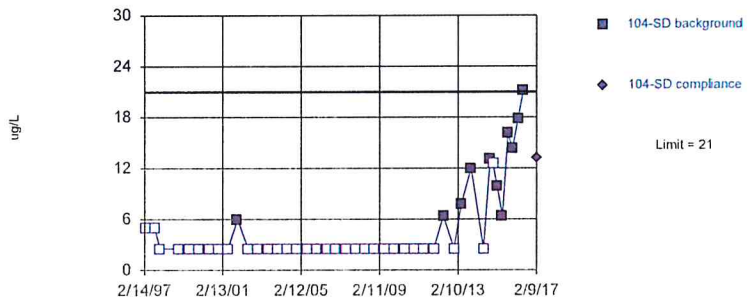
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

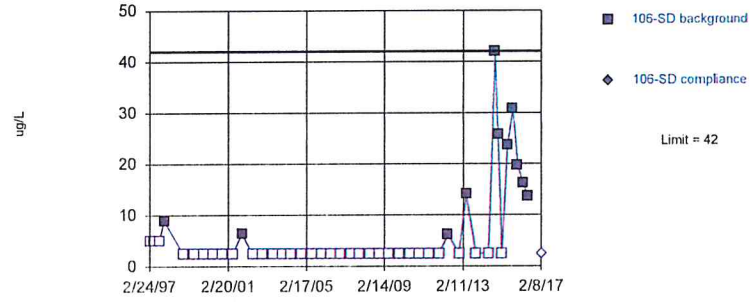
Constituent: Chromium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

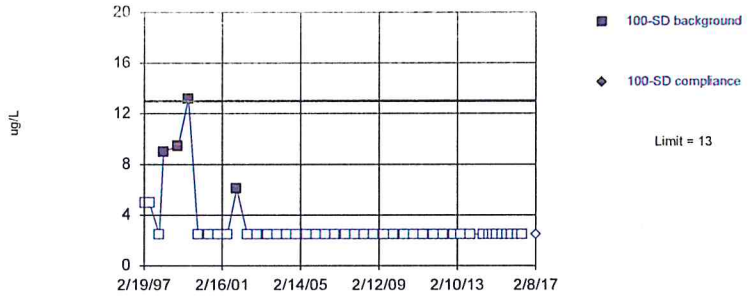
Constituent: Chromium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

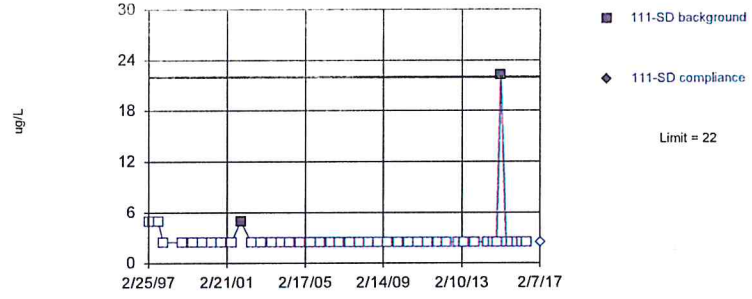
Constituent: Chromium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

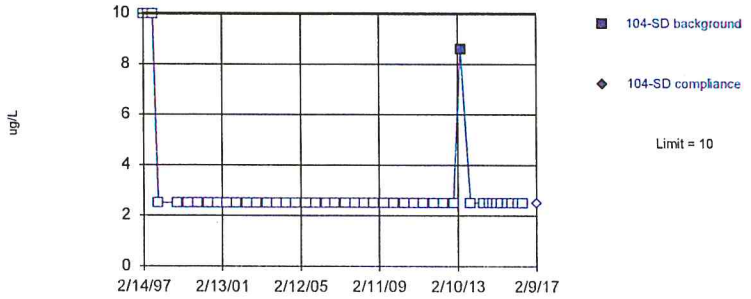
Constituent: Chromium Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

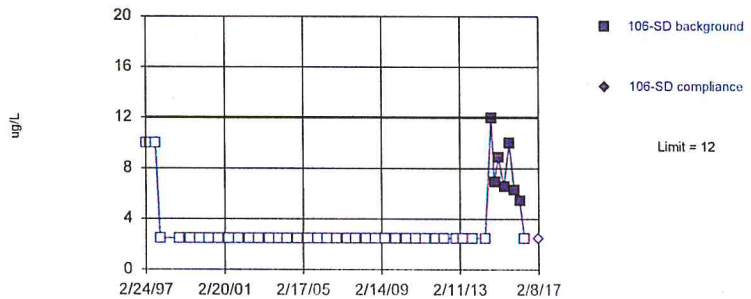
Constituent: Cobalt Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 84.09% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

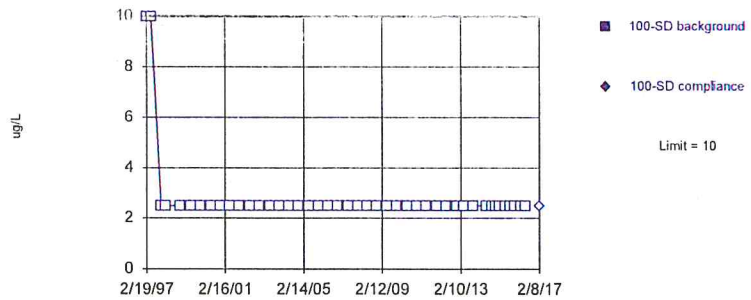
Constituent: Cobalt Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

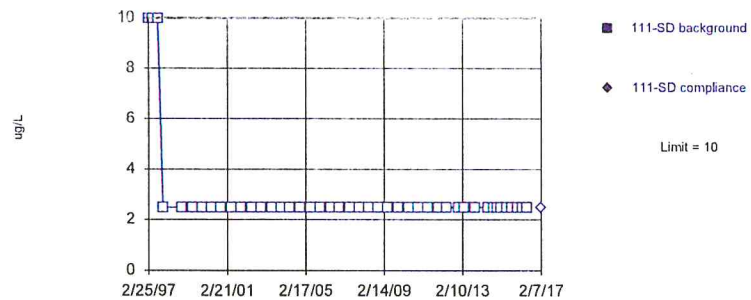
Constituent: Cobalt Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

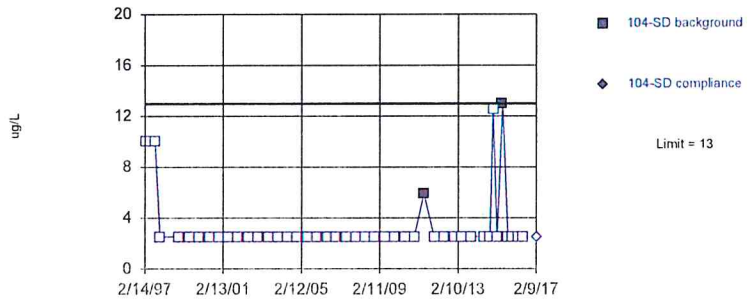
Constituent: Cobalt Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

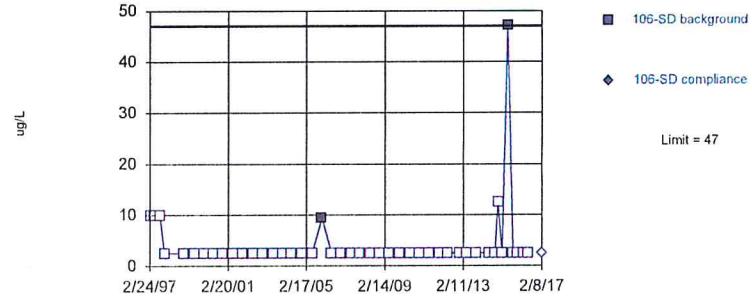
Constituent: Copper Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

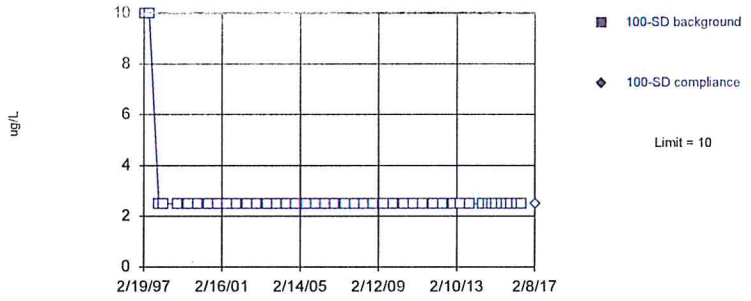
Constituent: Copper Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

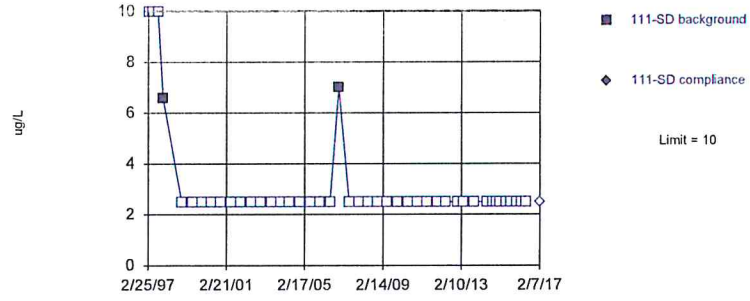
Constituent: Copper Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

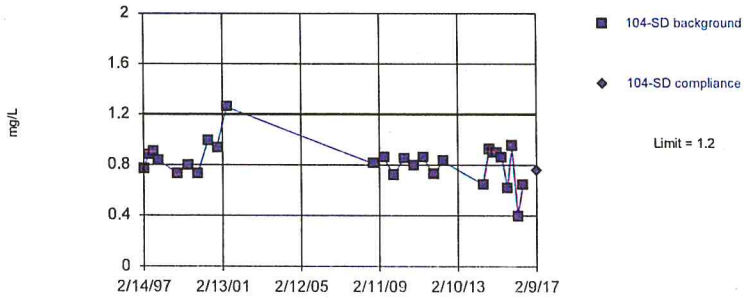
Constituent: Copper Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8205, Std. Dev.=0.1528, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9356, critical = 0.894. Kappa = 2.559 (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 (11/27/2012); 0.21 (4/11/2013); <0.1 (10/7/2013).

Constituent: Fluoride Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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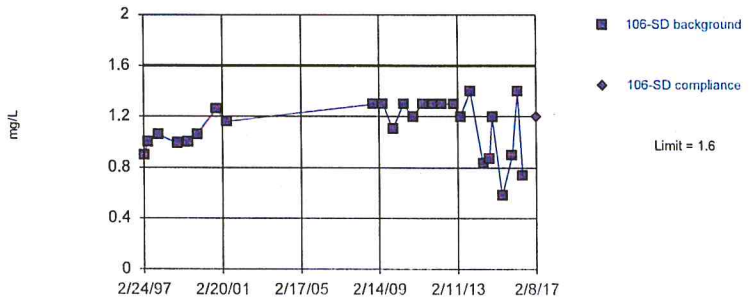
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=1.281, Std. Dev.=0.4501, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9297, critical = 0.891. Kappa = 2.575 (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: <0.25 (8/28/1997); 2.24 (5/23/2000); 0.18 (2/4/2015); 0.16 (8/24/2015).

Constituent: Fluoride Analysis Run 3/14/2017 6:49 AM

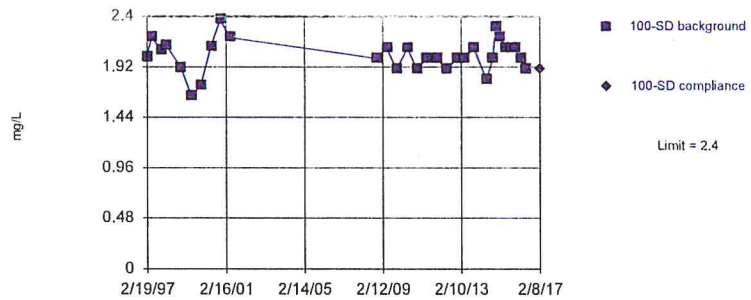
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.148, Std. Dev.=0.6201, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.9. Kappa = 2.513 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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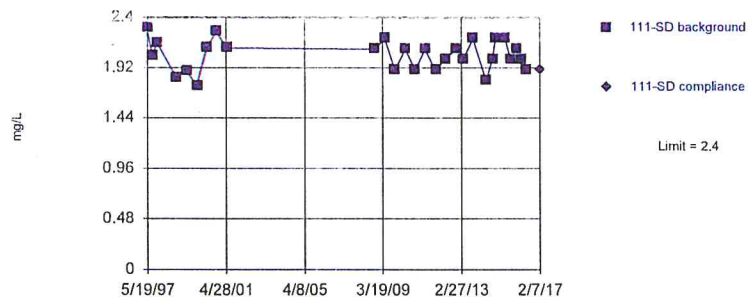
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.699, Std. Dev.=1.795, n=29. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9603, critical = 0.898. Kappa = 2.528 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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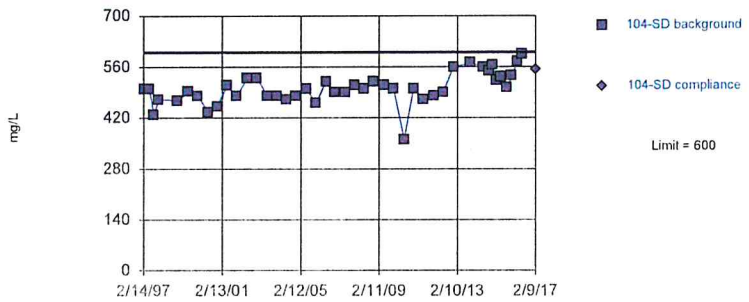
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=253109, Std. Dev.=42727, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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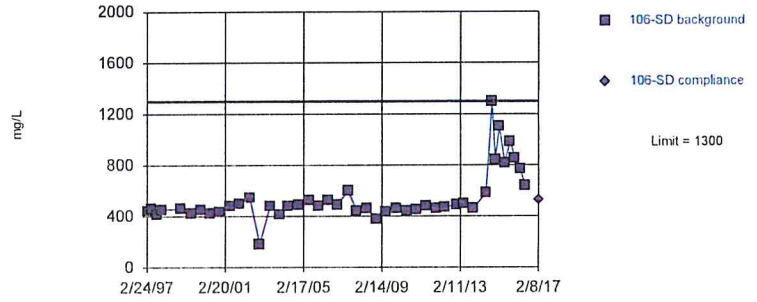
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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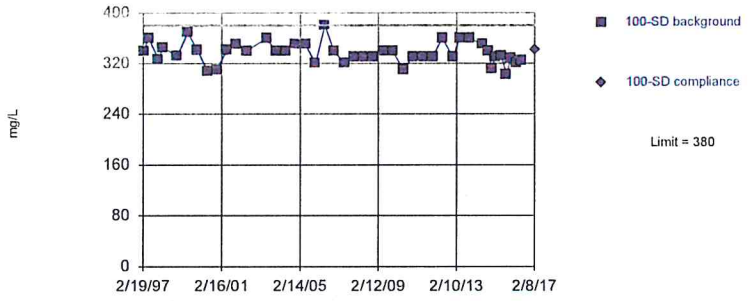
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.819, Std. Dev.=0.05011, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9721, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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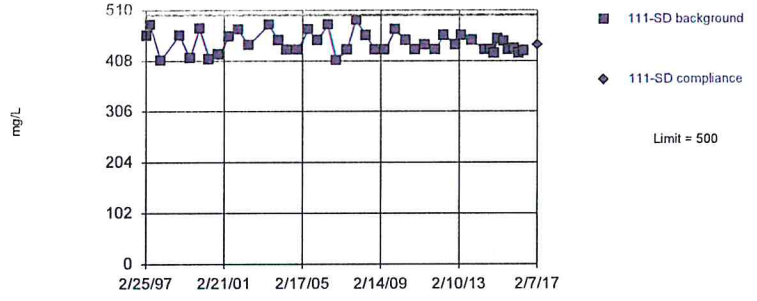
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.095, Std. Dev.=0.04773, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9473, critical = 0.922. Kappa = 2.415 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 37.1 (8/21/1997); 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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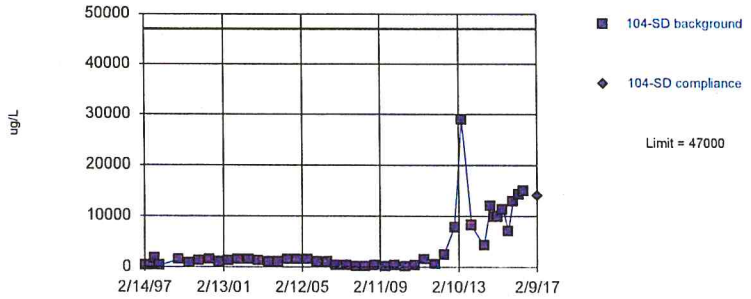
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.303, Std. Dev.=1.434, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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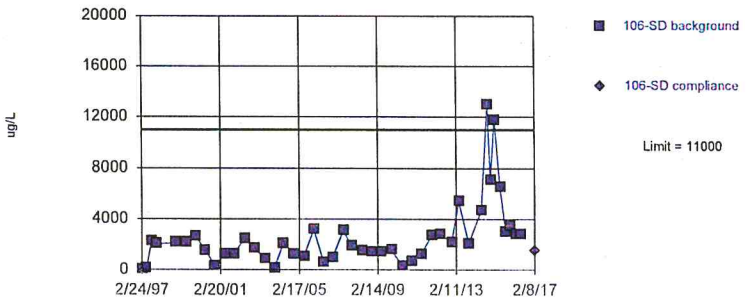
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=12.56, Std. Dev.=3.099, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9561, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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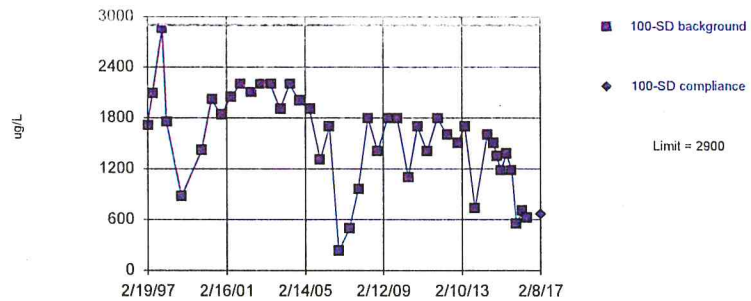
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=1543, Std. Dev.=556.1, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.923. Kappa = 2.41 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 3550 (5/18/1999).

Constituent: Iron Total Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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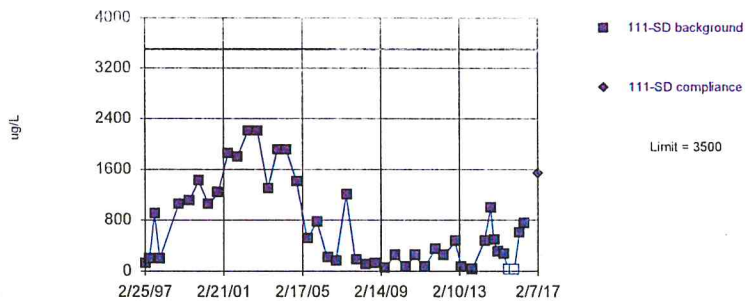
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.845, Std. Dev.=3.072, n=44, 4.545% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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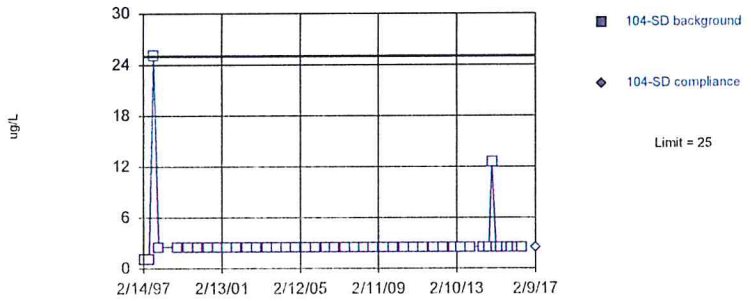
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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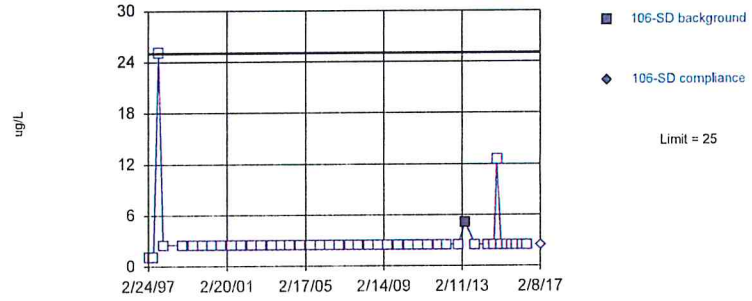
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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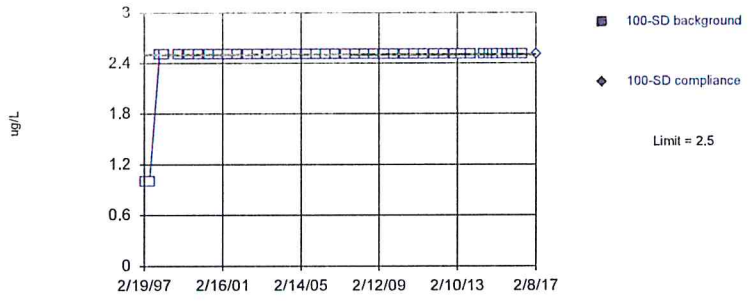
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

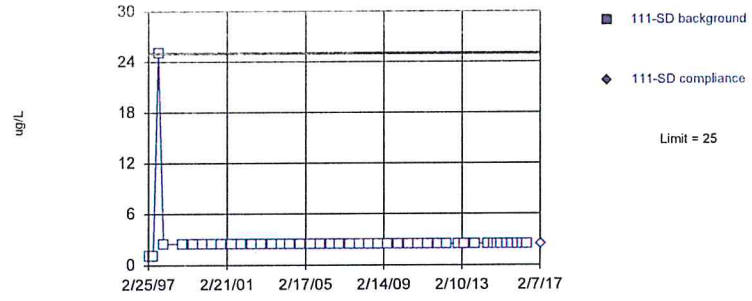
Constituent: Lead Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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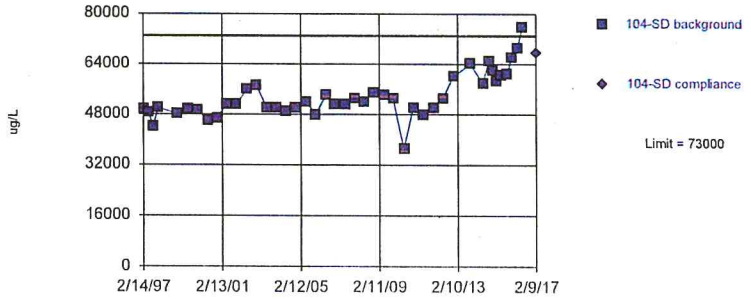
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.88, Std. Dev.=0.1301, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9527, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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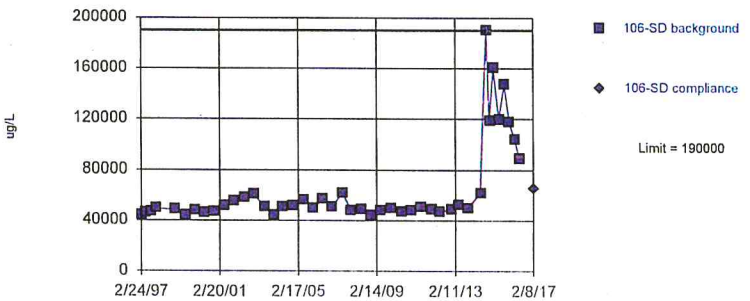
Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Magnesium Total Analysis Run 3/14/2017 6:49 AM

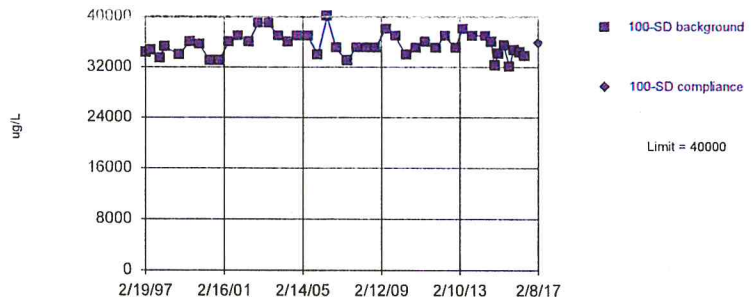
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.48, Std. Dev.=0.05027, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9746, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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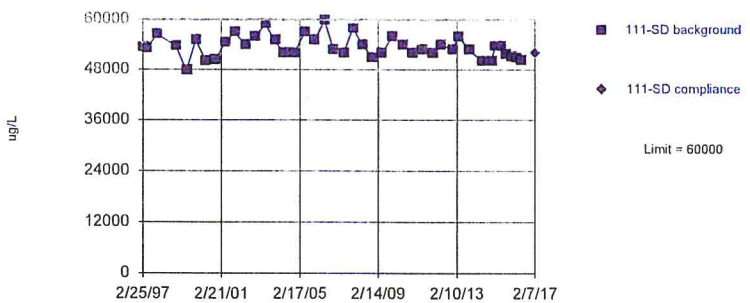
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.88, Std. Dev.=0.04863, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9809, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI

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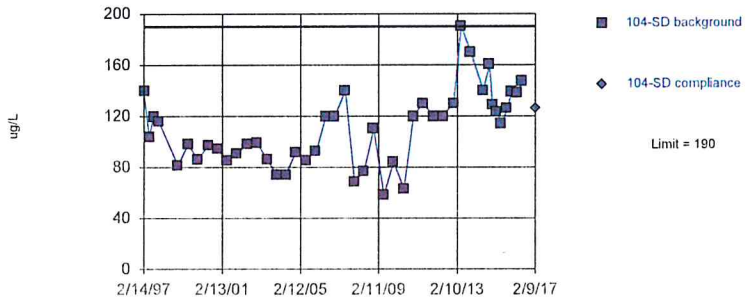
Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=4.758, Std. Dev.=0.4227, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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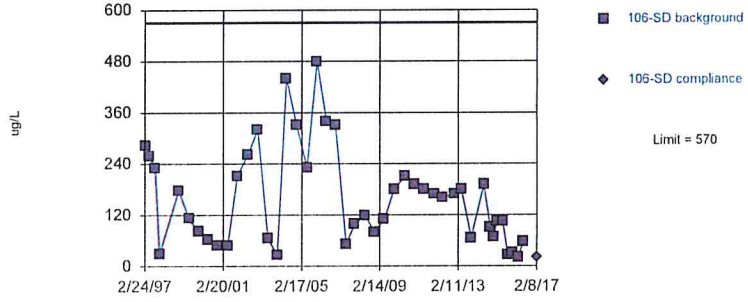
Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.108, Std. Dev.=1.323, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9638, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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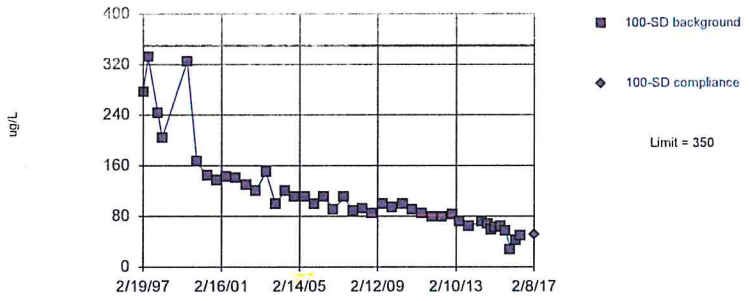
Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.615, Std. Dev.=0.5129, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9705, critical = 0.923. Kappa = 2.41 (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: 34000 (11/14/1998).

Constituent: Manganese Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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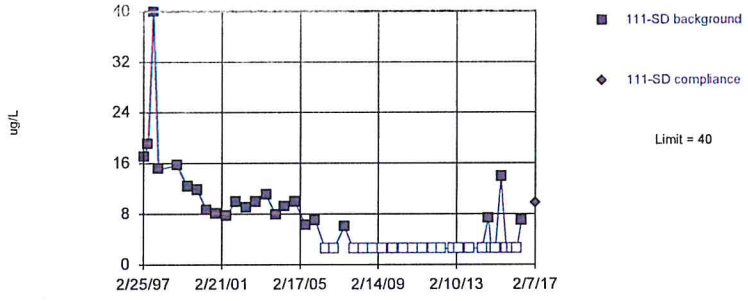
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 44 background values. 47.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

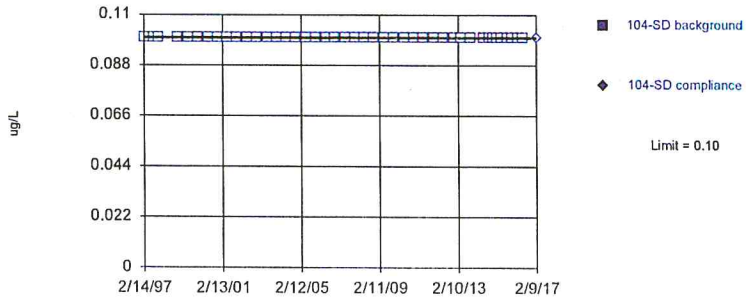
Constituent: Manganese Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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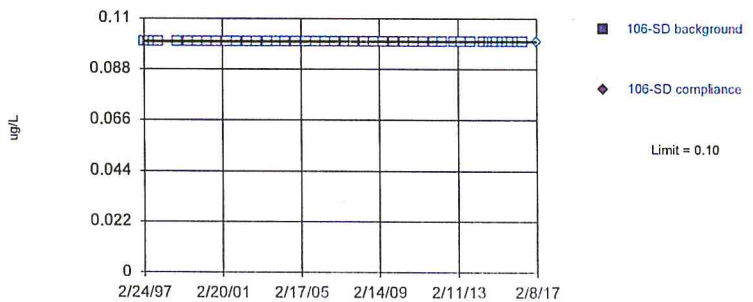
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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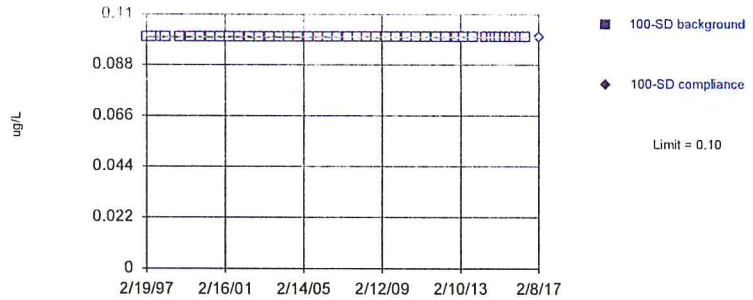
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 6:49 AM

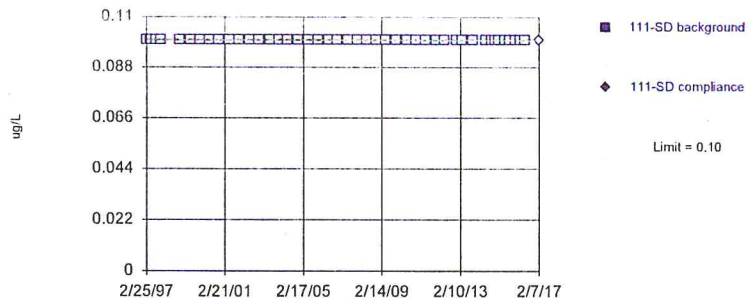
Bridgeton LF Client: RSI

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Mercury Total Analysis Run 3/14/2017 6:49 AM

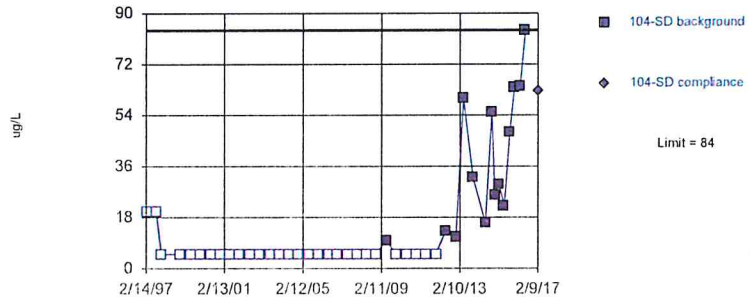
Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 68.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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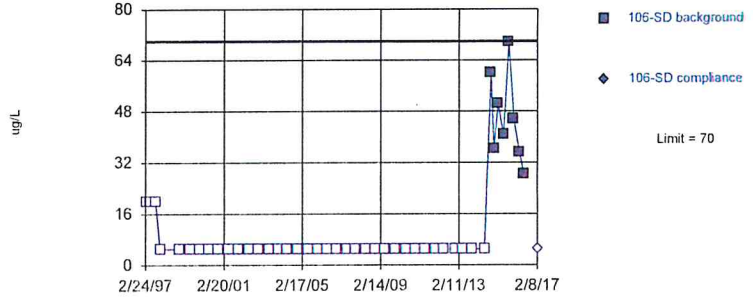
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 81.82% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

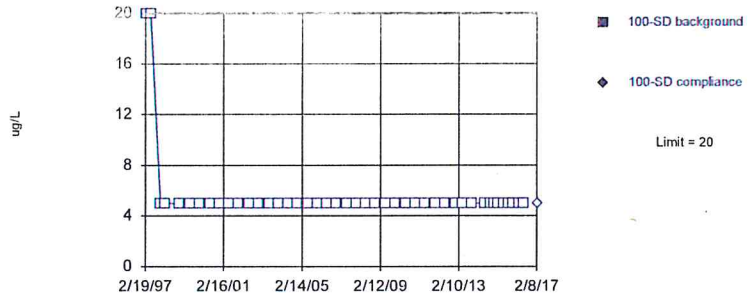
Constituent: Nickel Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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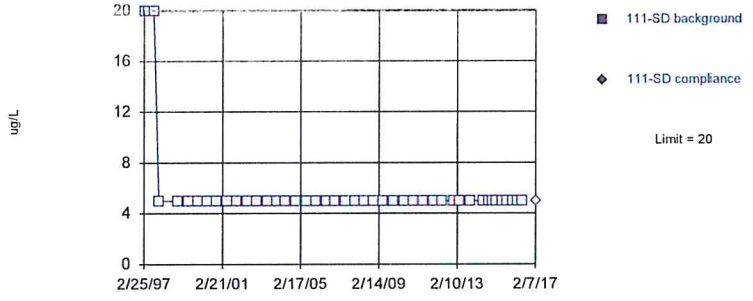
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

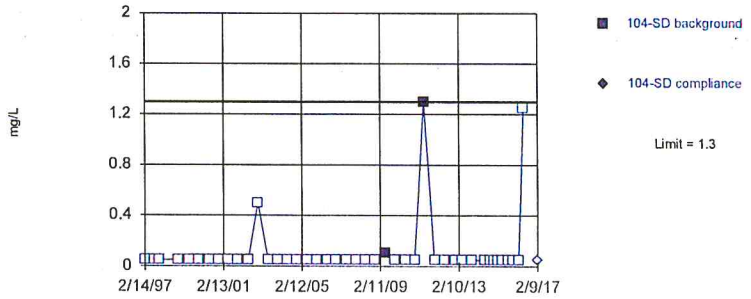
Constituent: Nickel Total Analysis Run 3/14/2017 6:49 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 95.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 6:49 AM

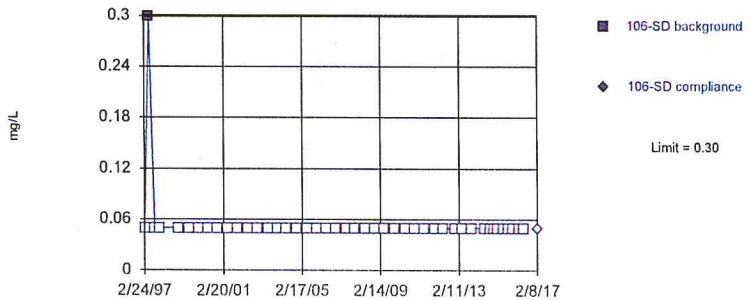
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 6:49 AM

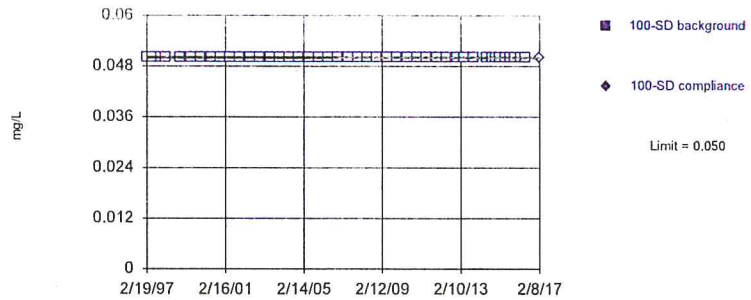
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 6:49 AM

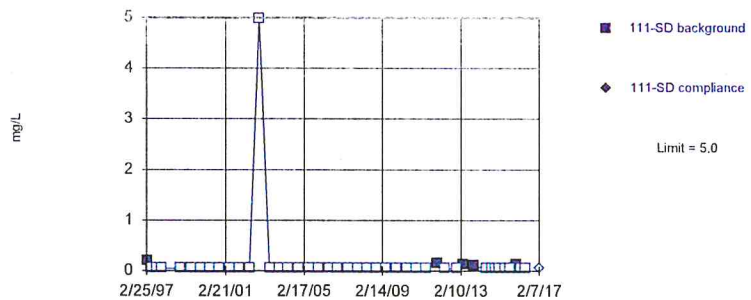
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 6:49 AM

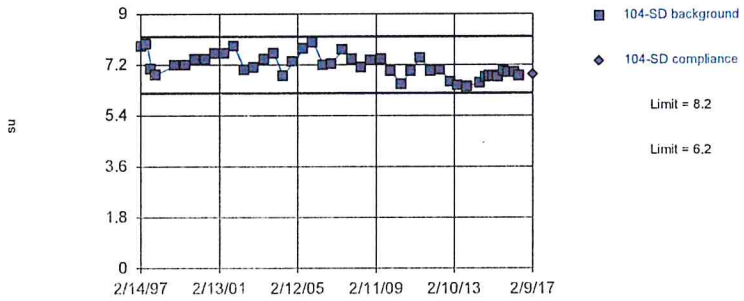
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.966, Std. Dev.=0.05716, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9621, critical = 0.921. Kappa = 2.404 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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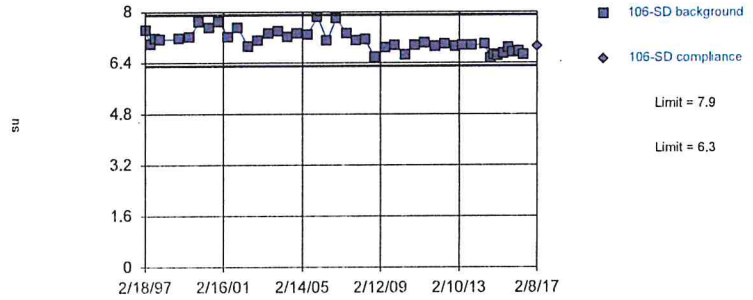
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.956, Std. Dev.=0.04684, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9598, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

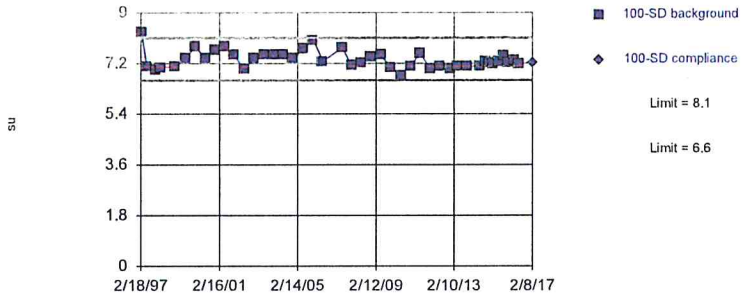
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.992, Std. Dev.=0.04175, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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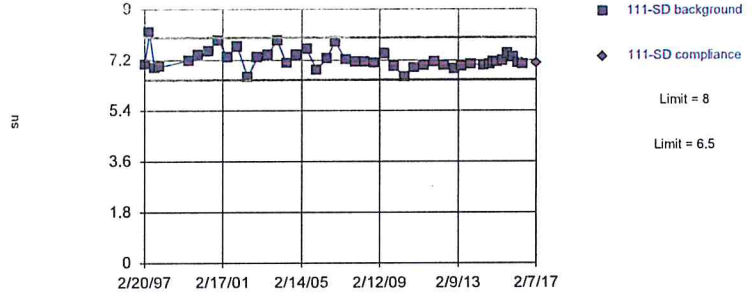
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.976, Std. Dev.=0.04495, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9399, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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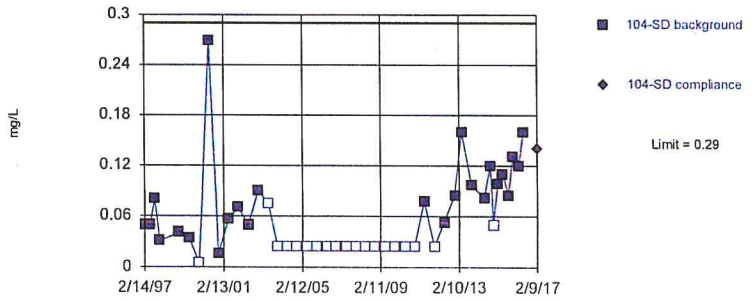
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.173, Std. Dev.=0.8043, n=44, 43.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9284, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

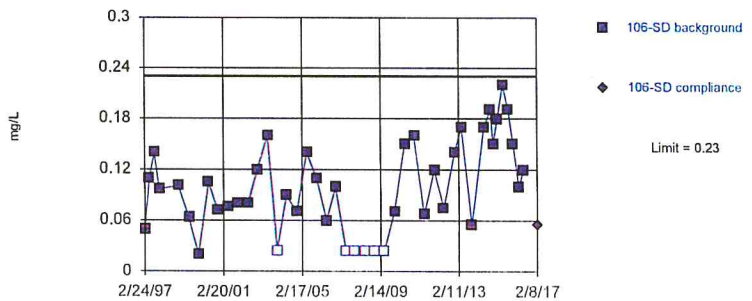
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=-0.1016, Std. Dev.=0.05304, n=44, 13.64% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9531, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:49 AM

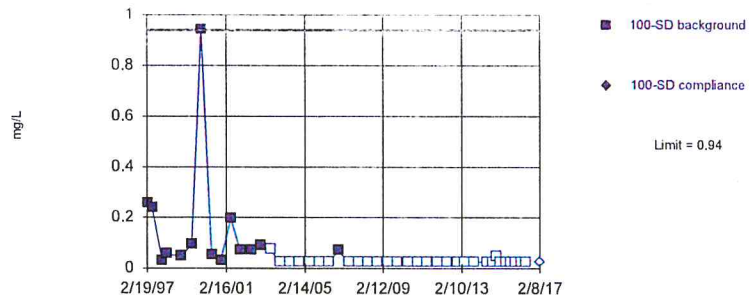
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 68.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 6:49 AM

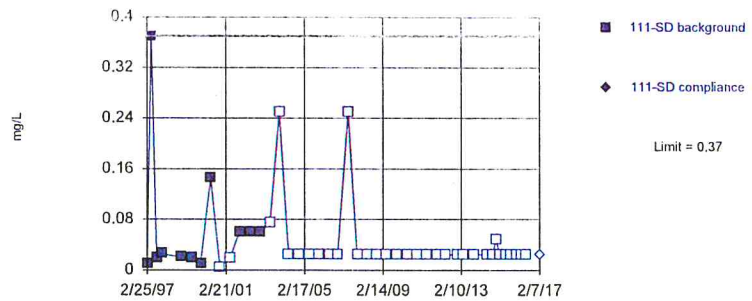
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 75% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 3/14/2017 6:50 AM

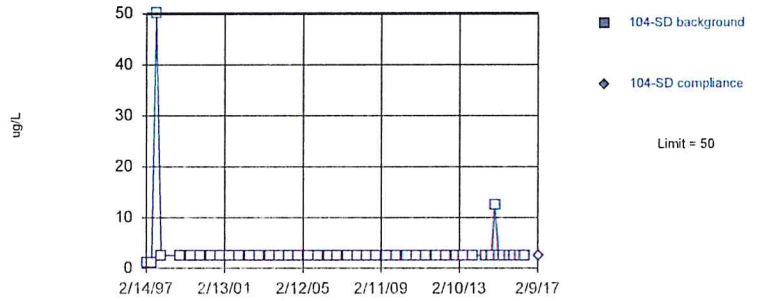
Bridgeton LF Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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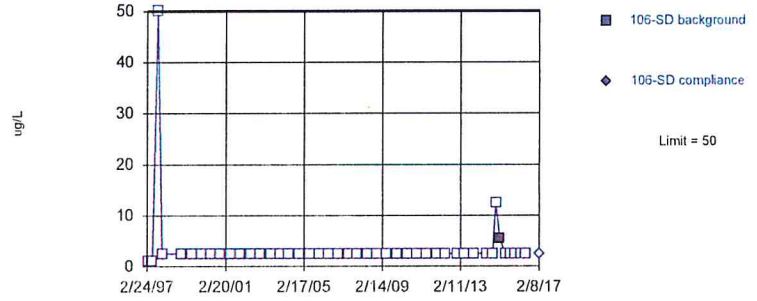
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 6:50 AM

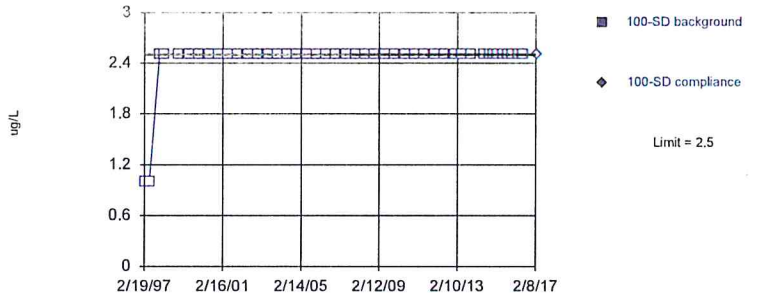
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 6:50 AM

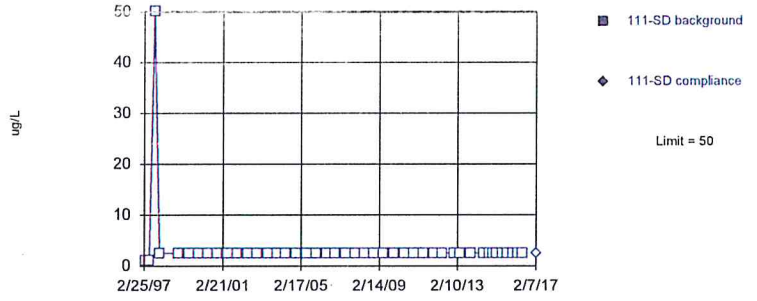
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Selenium Total Analysis Run 3/14/2017 6:50 AM

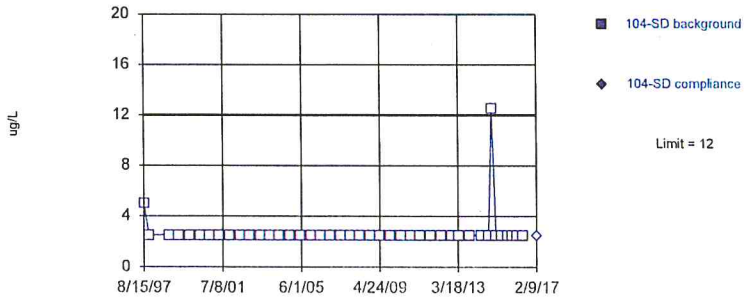
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 100% NDs. Well-constituent pair annual alpha = 0.004281. Individual comparison alpha = 0.001072 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

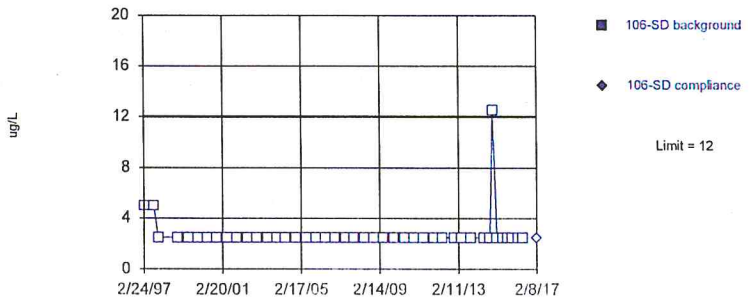
Constituent: Silver Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 100% NDs. Well-constituent pair annual alpha = 0.004121. Individual comparison alpha = 0.001032 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

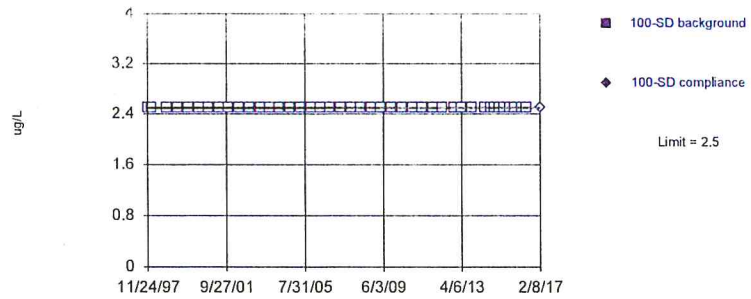
Constituent: Silver Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 42 background values. 100% NDs. Well-constituent pair annual alpha = 0.004281. Individual comparison alpha = 0.001072 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

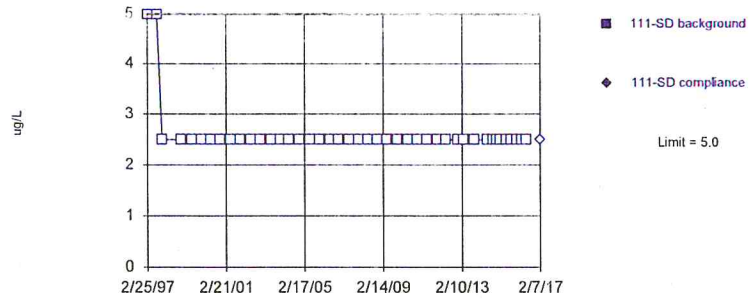
Constituent: Silver Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 100% NDs. Well-constituent pair annual alpha = 0.004121. Individual comparison alpha = 0.001032 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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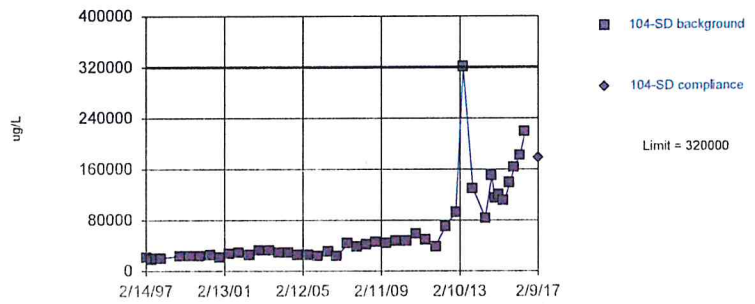
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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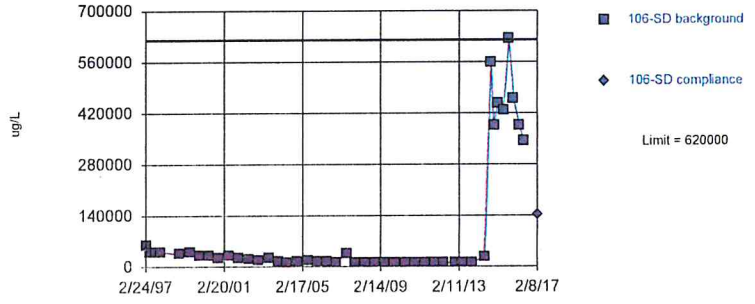
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sodium Total Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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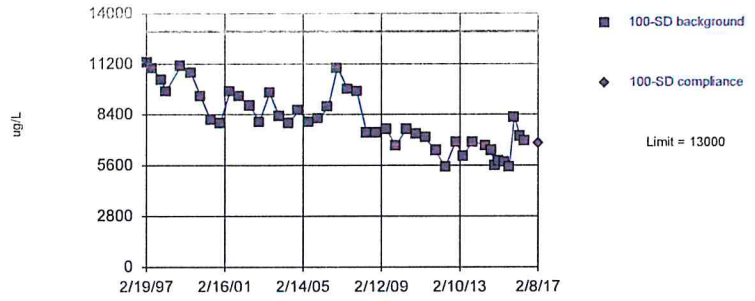
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=8.979, Std. Dev.=0.2057, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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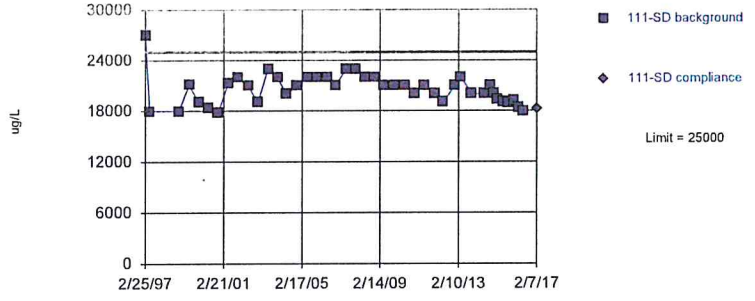
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=9.929, Std. Dev.=0.08574, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.922. Kappa = 2.415 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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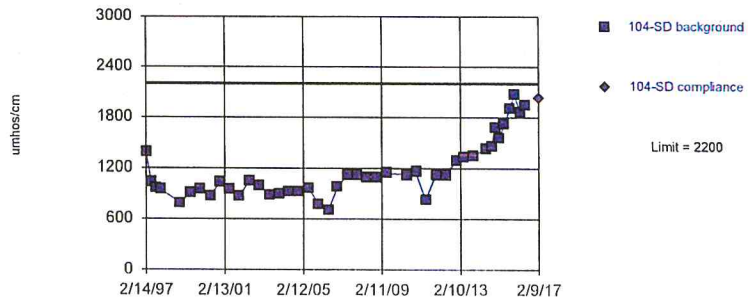
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.031, Std. Dev.=0.2668, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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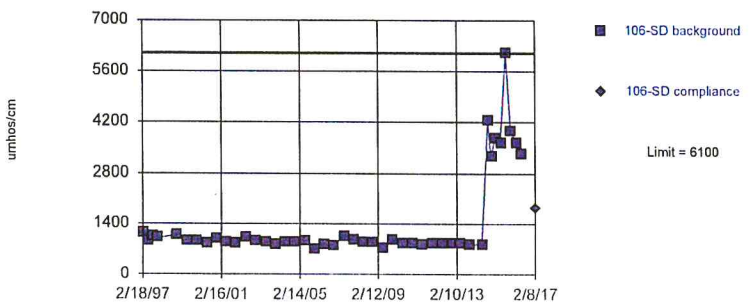
Within Limit

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. 1 hit is highest of 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.000916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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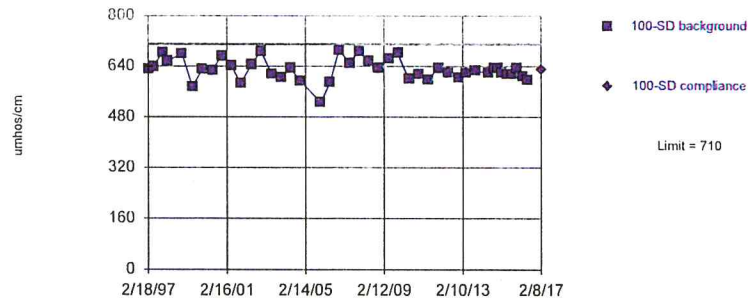
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=397901, Std. Dev.=42367, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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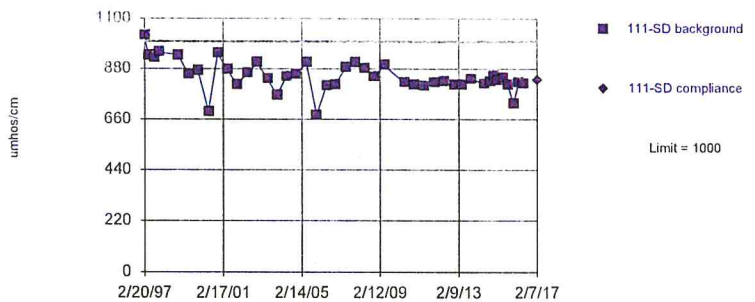
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=847.1, Std. Dev.=66.21, n=43. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.923. Kappa = 2.41 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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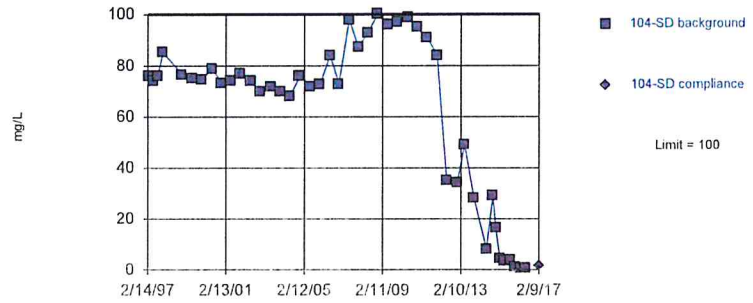
Within Limit

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 44 background values. Well-constituent pair annual alpha = 0.00256. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sulfate Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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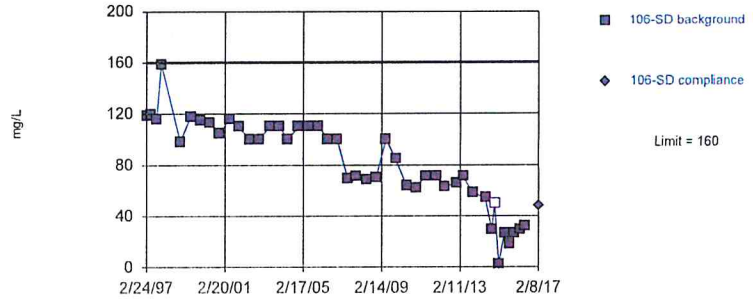
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=81.72, Std. Dev.=34.53, n=44, 2.273% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9384, critical = 0.924. Kappa = 2.404 (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. No background outliers were found.

Constituent: Sulfate Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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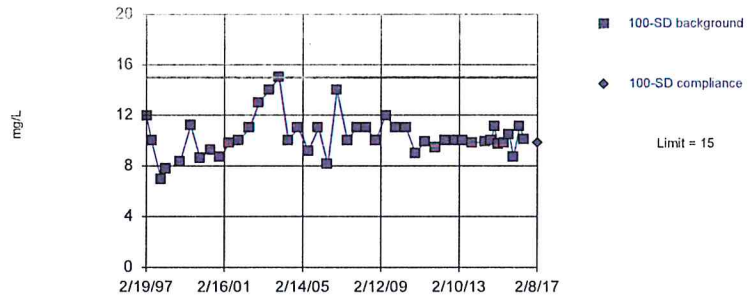
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.322, Std. Dev.=0.1513, n=44. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9587, critical = 0.924. Kappa = 2.404 (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 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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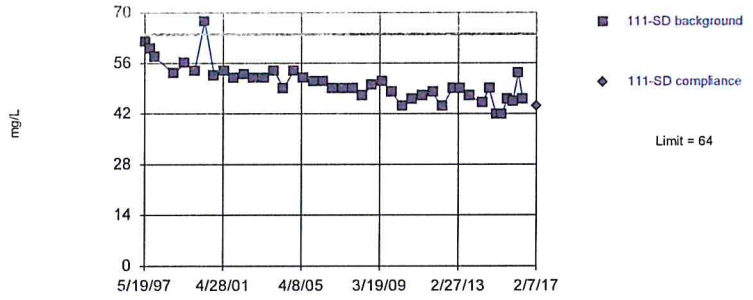
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=3.918, Std. Dev.=0.09878, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.922. Kappa = 2.415 (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: 70 (2/25/1997); <50 (11/19/2014).

Constituent: Sulfate Analysis Run 3/14/2017 6:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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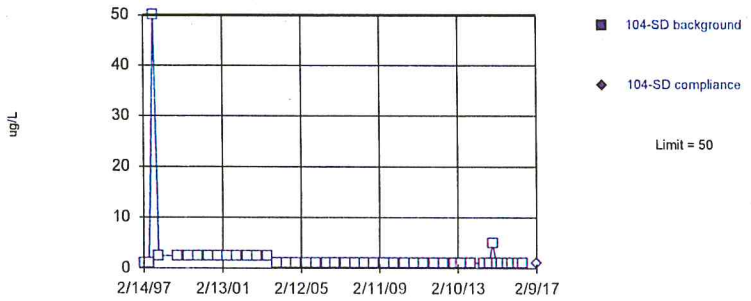
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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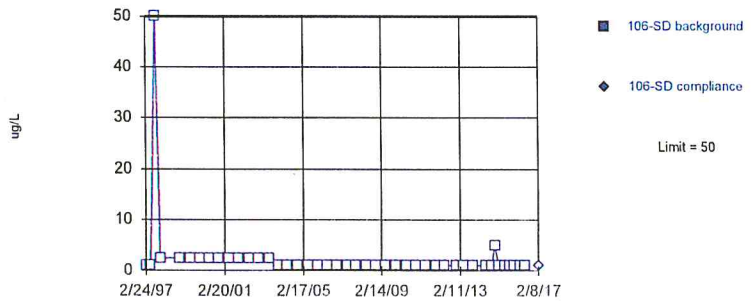
Hollow symbols indicate censored values.

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 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

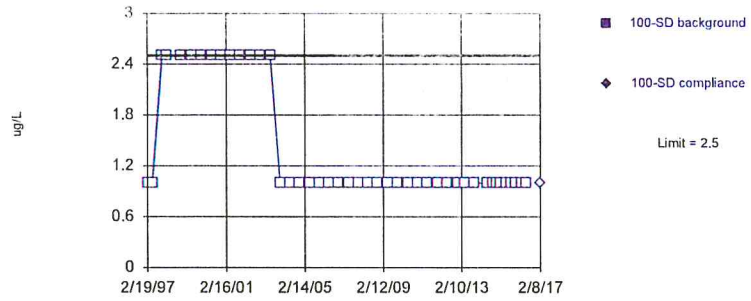
Constituent: Thallium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

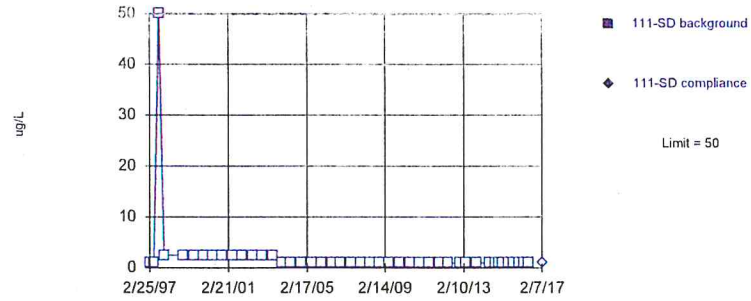
Constituent: Thallium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

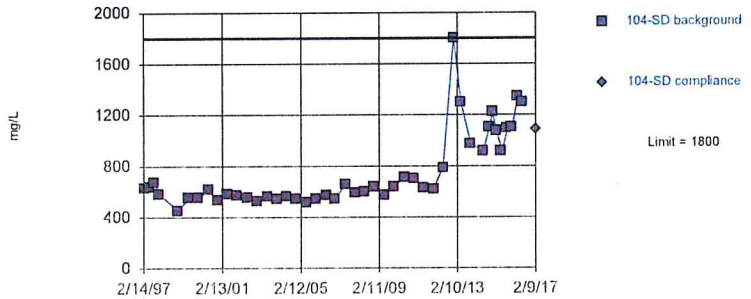
Constituent: Thallium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

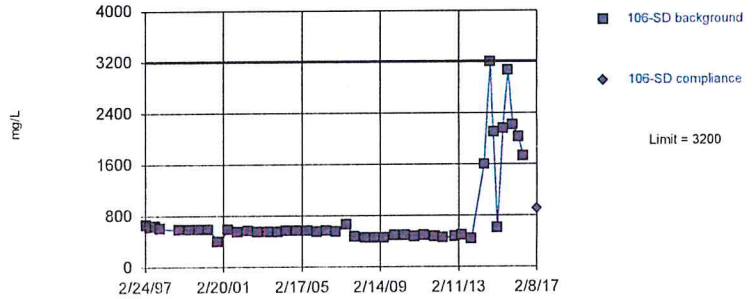
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 44 background values. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

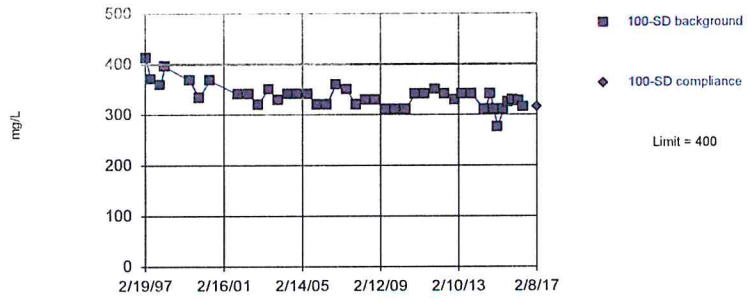
Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.816, Std. Dev.=0.07183, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9516, critical = 0.92. Kappa = 2.421 (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 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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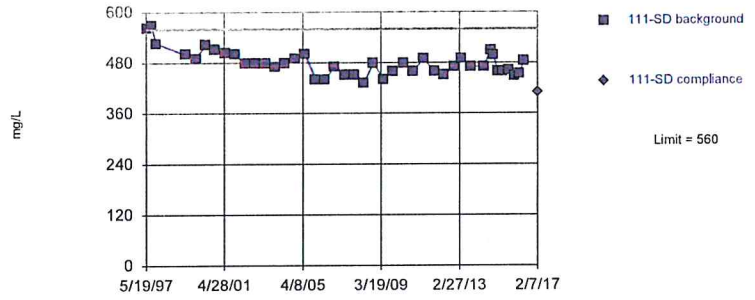
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.171, Std. Dev.=0.06167, n=42. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9499, critical = 0.922. Kappa = 2.415 (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 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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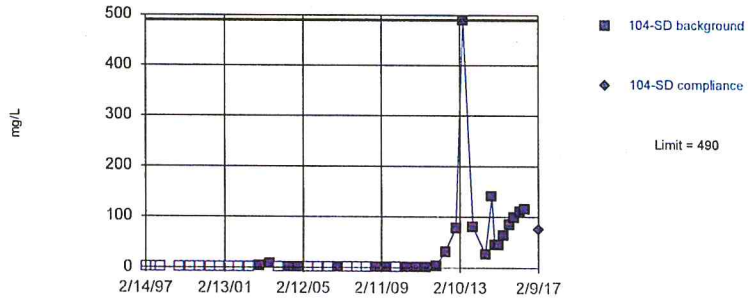
Hollow symbols indicate censored values.

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 44 background values. 45.45% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 6:50 AM

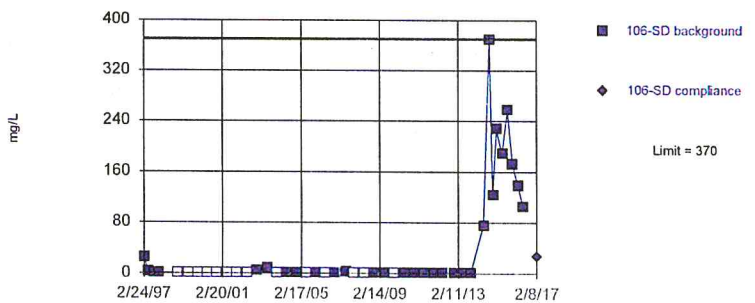
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 11.92% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 6:50 AM

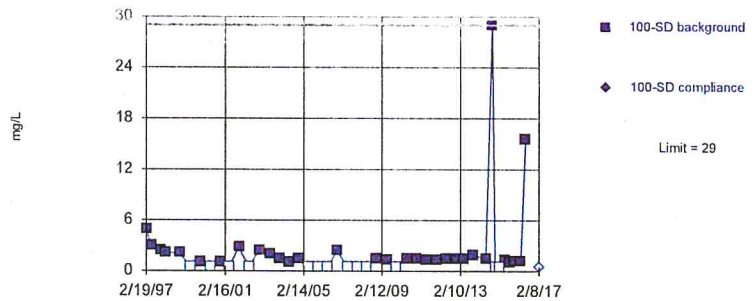
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 29.55% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 6:50 AM

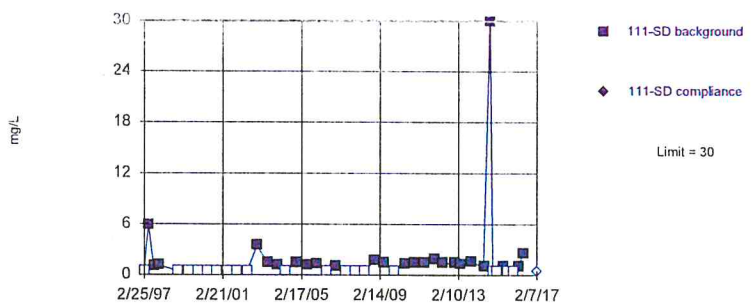
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, 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 44 background values. 43.18% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 6:50 AM

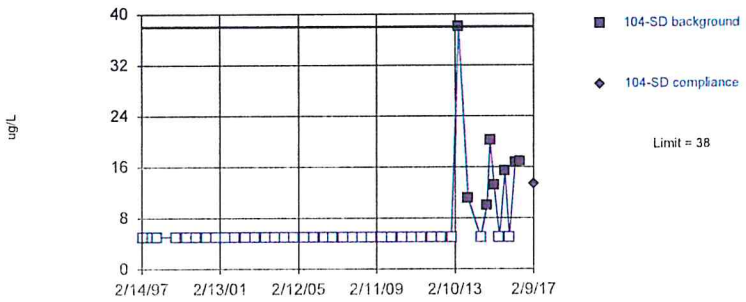
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 21.95% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

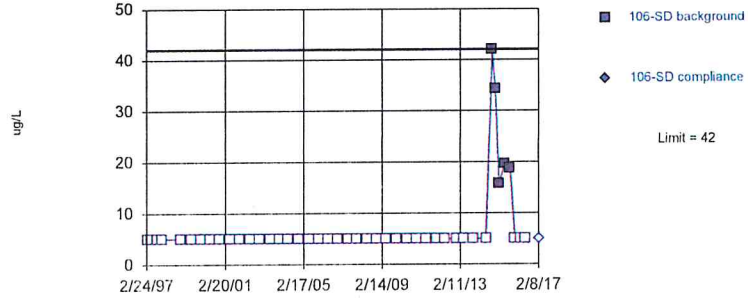
Constituent: Vanadium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 88.64% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

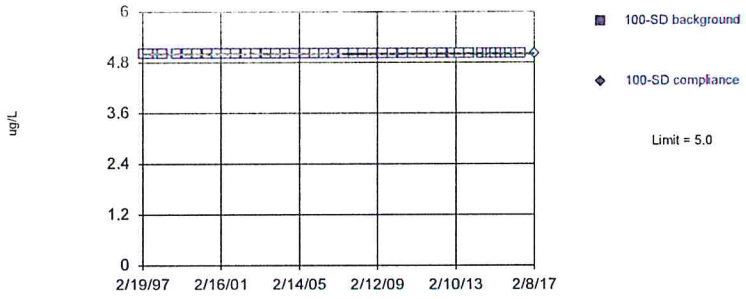
Constituent: Vanadium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 44 background values. 100% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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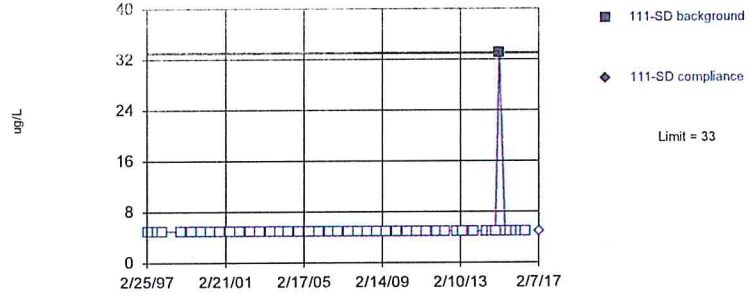
Hollow symbols indicate censored values.

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 44 background values. 97.73% NDs. Well-constituent pair annual alpha = 0.00396. Individual comparison alpha = 0.0009916 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

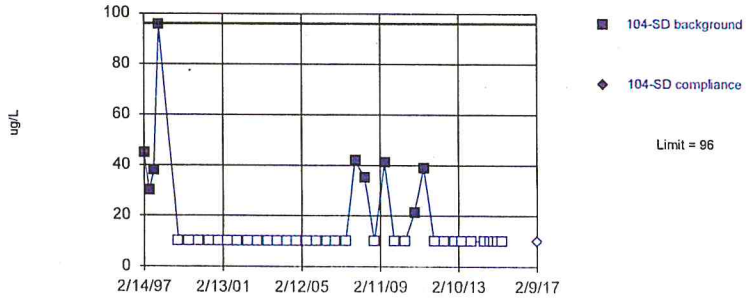
Constituent: Vanadium Total Analysis Run 3/14/2017 6:50 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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.

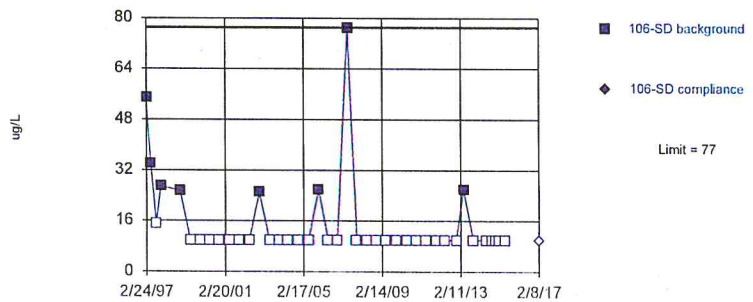
Constituent: Zinc Total Analysis Run 3/14/2017 6:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 3/14/2017 6:54 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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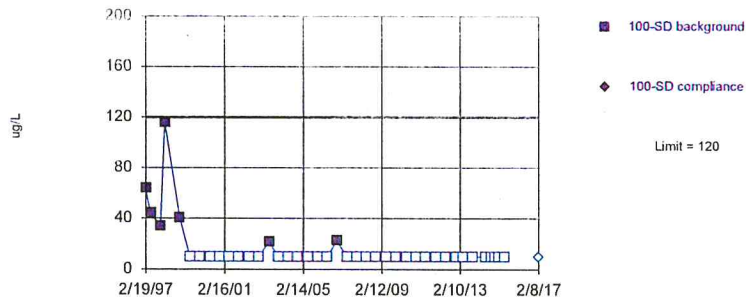
Hollow symbols indicate censored values.

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.

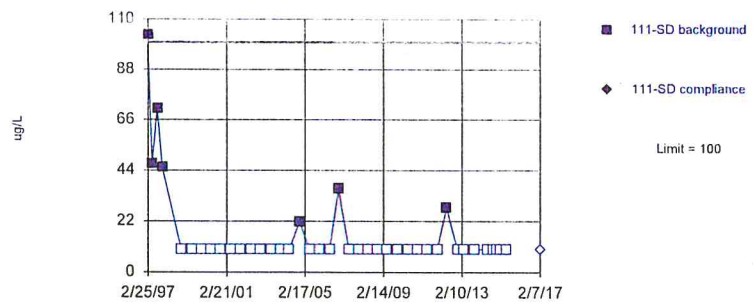
Constituent: Zinc Total Analysis Run 3/14/2017 6:55 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell 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 R 14 2017 6 55 AM
Bridgeton LF Client R

Prediction Limit

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 3/14/2017, 8:53 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)	**106-SD**	**1.4**	**n/a**	**2/8/2017**	**35.6**	**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**	**2/9/2017**	**609**	**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**	**2/8/2017**	**421**	**Yes**	**11**	**465937**	**199834**	**0**	**None**	**x^3**	**0.0001937**	**Param Intra 1 of 2**
Barium Total (ug/L)	111-SD	130	n/a	2/7/2017	106	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	2/8/2017	101000	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	2/9/2017	227	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**	**2/9/2017**	**264**	**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	2/9/2017	553	No	34	1.2e8	2.6e7	0	None	x^3	0.0001937	Param Intra 1 of 2
Hardness Total (mg/L)	105-SD	590	n/a	2/8/2017	521	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	2/8/2017	1570	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**	**2/9/2017**	**67700**	**Yes**	**31**	**36.99**	**0.6987**	**0**	**None**	**x^(1/3)**	**0.0001937**	**Param Intra 1 of 2**
Magnesium Total (ug/L)	**106-SD**	**63000**	**n/a**	**2/8/2017**	**65300**	**Yes**	**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	2/9/2017	6.85	No	34	53	5.7	0	None	x^2	0.00009683	Param Intra 1 of 2
pH [Field] (su)	106-SD	8	6.5	2/8/2017	6.92	No	37	1.973	0.04295	0	None	ln(x)	0.00009683	Param Intra 1 of 2
Sodium Total (ug/L)	**104-SD**	**34000**	**n/a**	**2/9/2017**	**178000**	**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**	**2/9/2017**	**2030**	**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**	**2/9/2017**	**1080**	**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**	**2/9/2017**	**74.5**	**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	2/8/2017	26.6	No	37	n/a	n/a	37.84	n/a	n/a	0.001353	NP Intra (normality) 1 of 2

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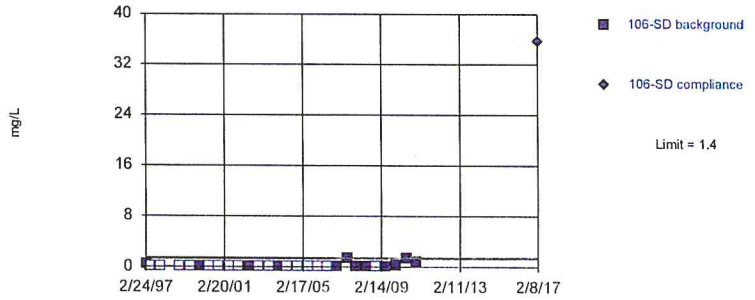
Hollow symbols indicate censored values.

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 = 0.00852. 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 3/14/2017 8:43 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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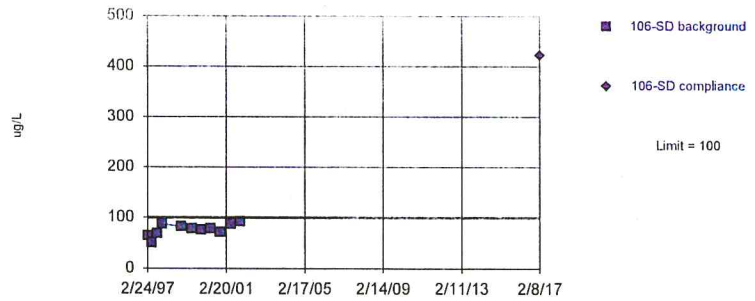
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=465937, Std. Dev.=199834, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9753, critical = 0.85. Kappa = 3.335 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Barium Total Analysis Run 3/14/2017 8:44 AM
Bridgeton LF Client: RSI [illegible]

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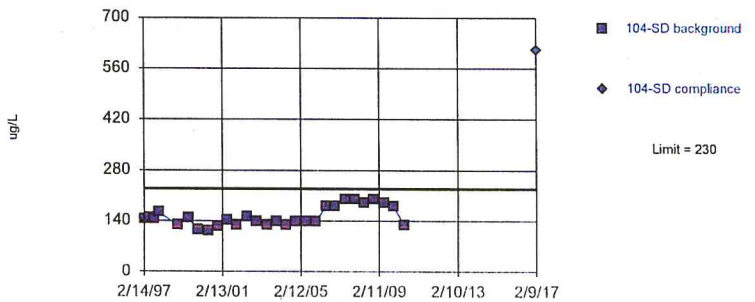
Exceeds Limit

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 = 0.9093, critical = 0.866. 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 3/14/2017 8:44 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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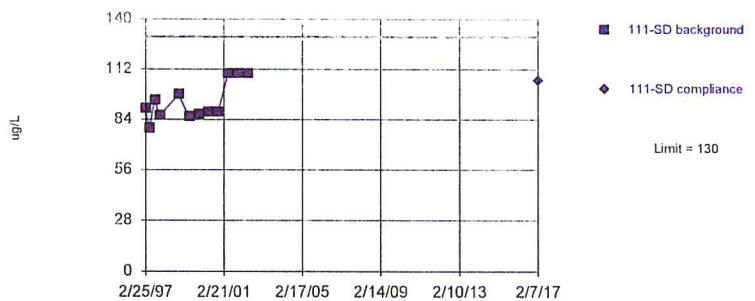
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=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 3/14/2017 8:45 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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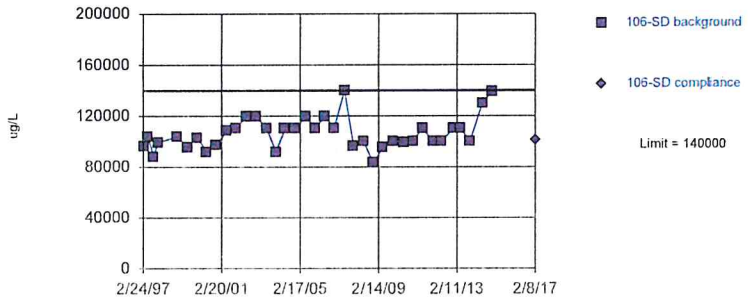
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.57, Std. Dev.=0.1154, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9502, critical = 0.914. Kappa = 2.45 (c=34, w=1, 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 3/14/2017 8:45 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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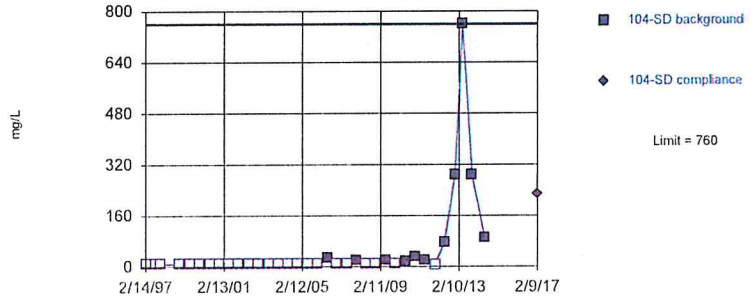
Hollow symbols indicate censored values.

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 38 background values. 68.44% 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 3/14/2017 8:46 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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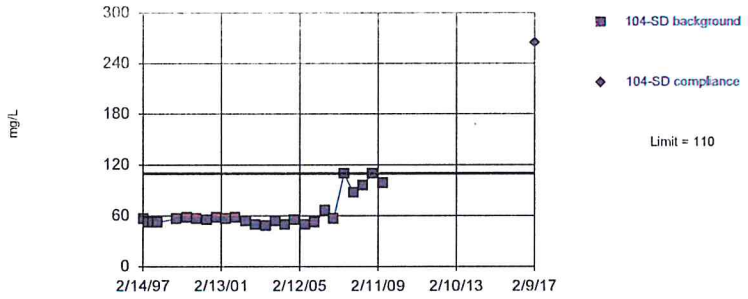
Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. Well-constituent pair annual alpha = 0.01051. Individual comparison alpha = 0.002637 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 3/14/2017 8:46 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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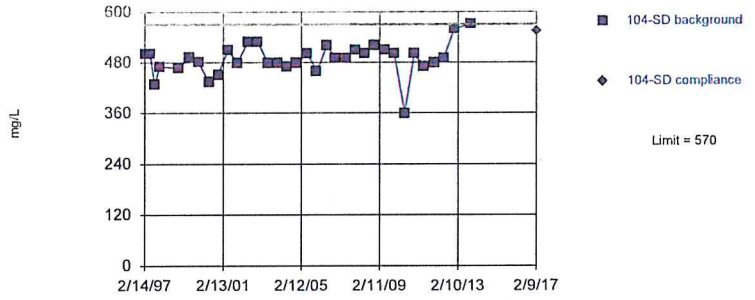
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.2e8, Std. Dev.=2.6e7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.908. Kappa = 2.475 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 840 (4/11/2013).

Constituent: Hardness Total Analysis Run 3/14/2017 8:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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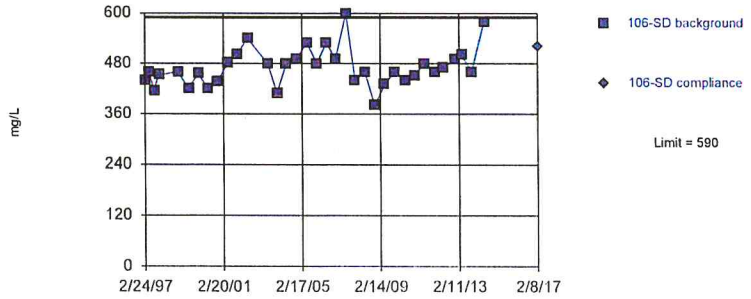
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, Std. Dev.=0.09468, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. Kappa = 2.465 (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 3/14/2017 8:47 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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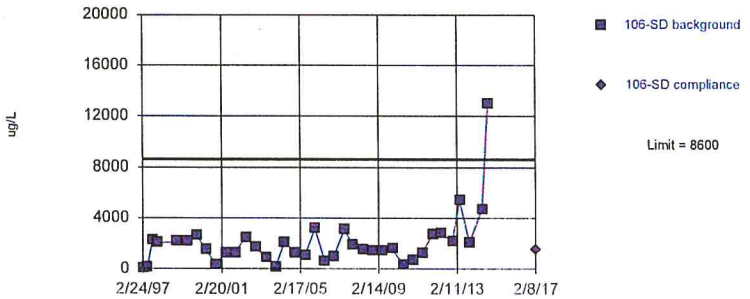
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=11.72, Std. Dev.=2.576, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9132, critical = 0.914. Kappa = 2.15 (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 3/14/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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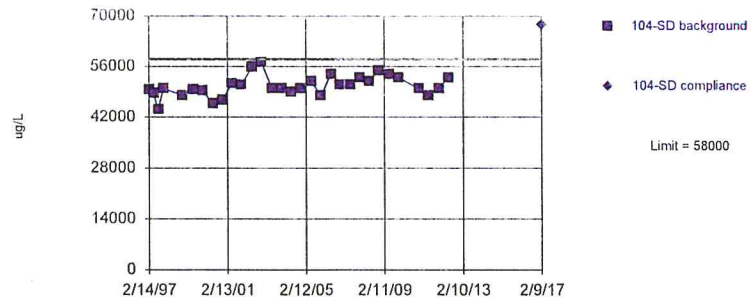
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on 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 3/14/2017 8:48 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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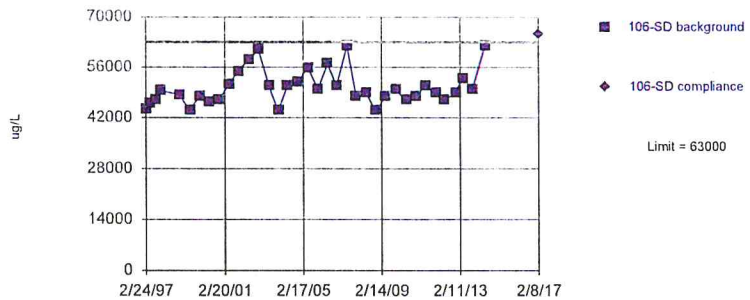
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.09234, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 190000 (9/24/2014); 119000 (11/20/2014).

Constituent: Magnesium Total Analysis Run 3/14/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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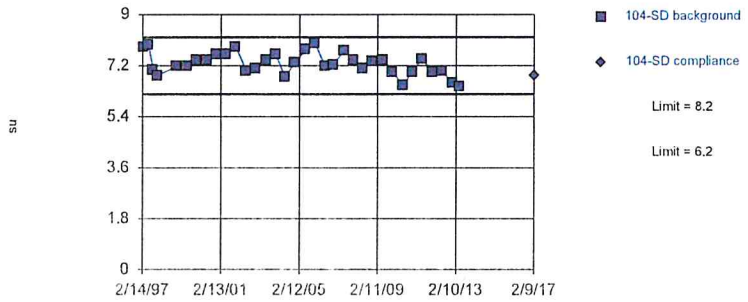
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=53, Std. Dev.=5.7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9793, critical = 0.903. Kappa = 2.175 (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 3/14/2017 8:49 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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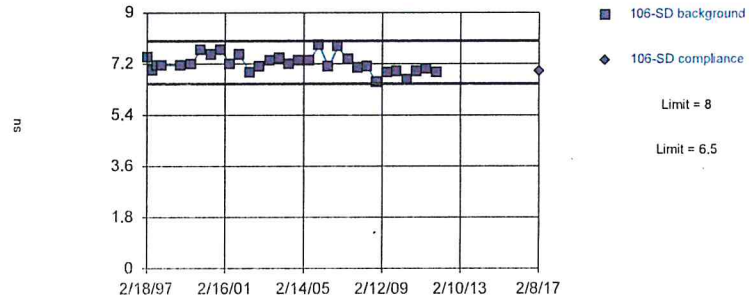
Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04295, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 3/14/2017 8:50 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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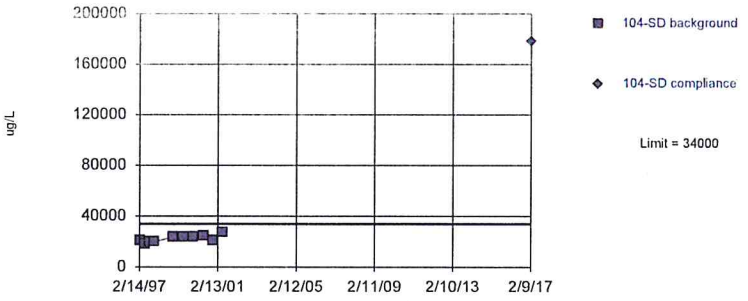
Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10, Std. Dev.=0.1276, n=10. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9451, critical = 0.842. Kappa = 3.482 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 3/14/2017 8:51 AM

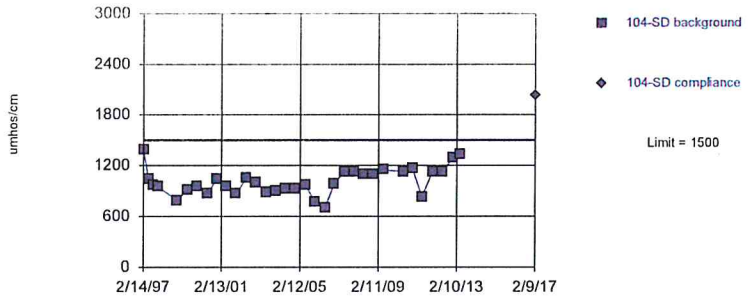
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

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 3/14/2017 8:51 AM

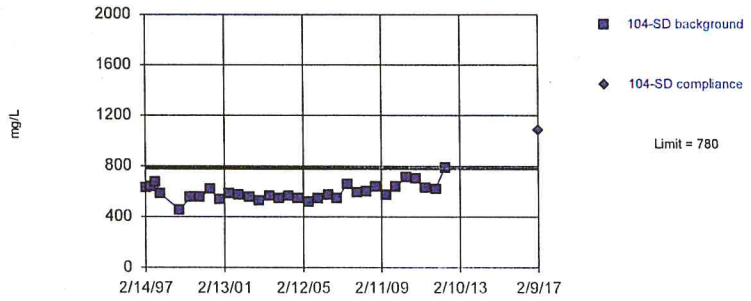
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 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 3/14/2017 8:51 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

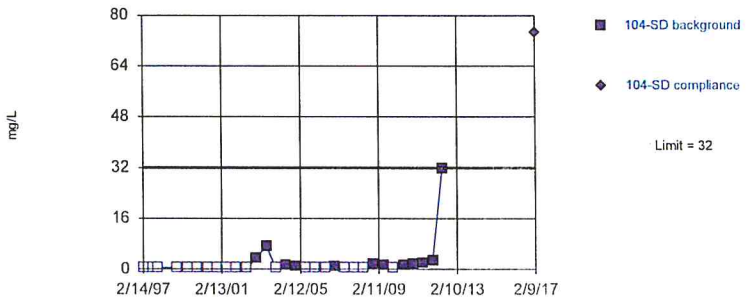
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.007136. Individual comparison alpha = 0.001789 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

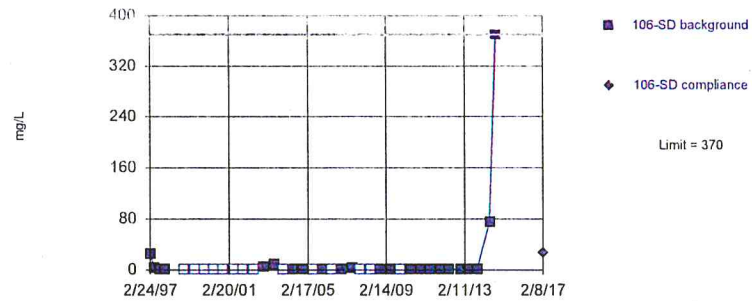
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

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 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 3/14/2017 8:52 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

TREND EVALUATION OF EXCEEDING CONSTITUENTS

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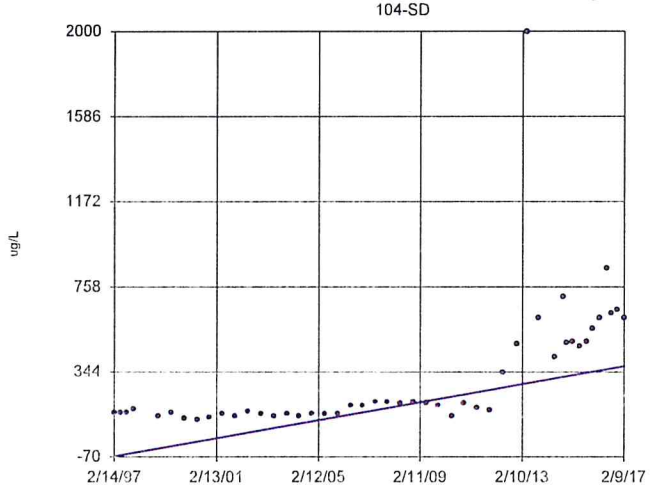
Sen's Slope Estimator

104-SD



n = 47

Slope = 21.94 units per year.

Mann-Kendall normal approx. = 6.338
critical = 2.33

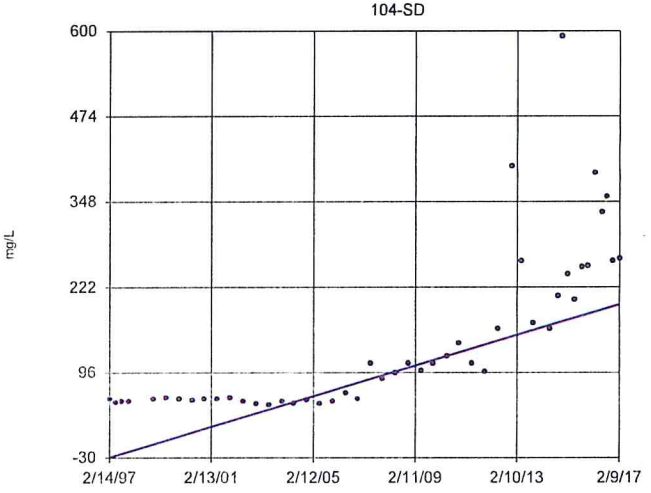
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Total Analysis Run 3/14/2017 1:11 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 47

Slope = 11.32 units per year.

Mann-Kendall normal approx. = 6.845
critical = 2.33

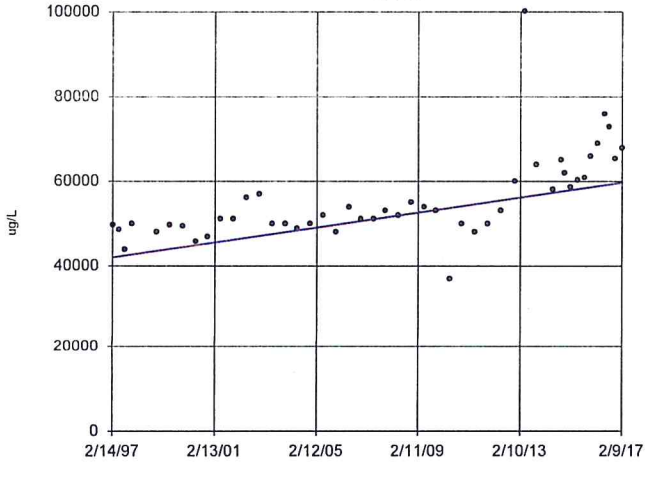
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Chloride Analysis Run 3/14/2017 1:11 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 47

Slope = 883.1 units per year.

Mann-Kendall normal approx. = 5.879
critical = 2.33

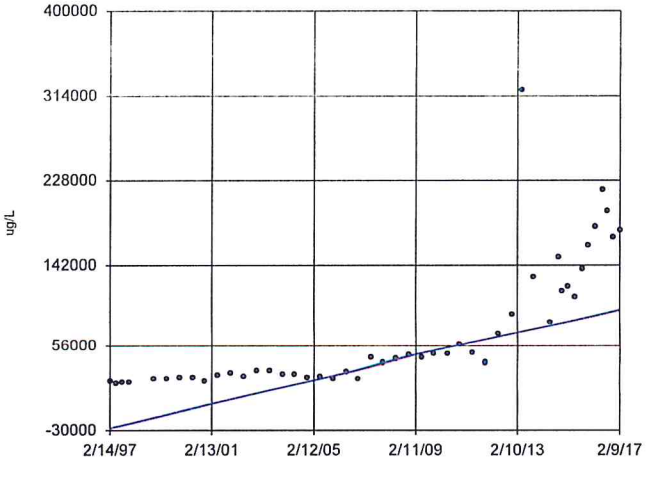
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 3/14/2017 1:11 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



n = 47

Slope = 6171 units per year.

Mann-Kendall normal approx. = 7.953
critical = 2.33

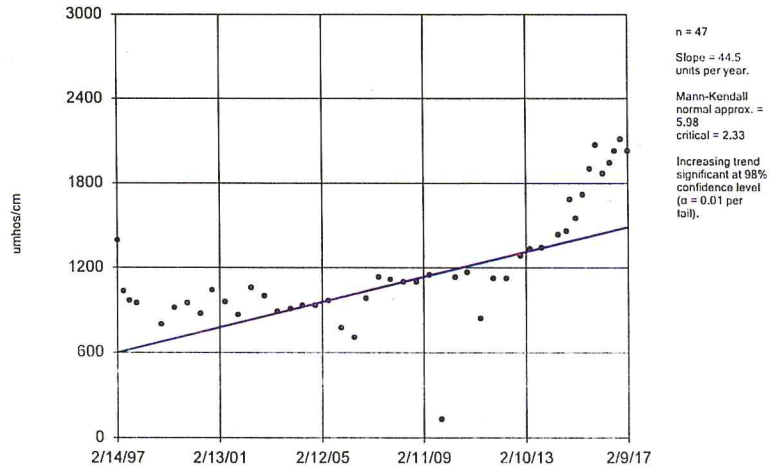
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sodium Total Analysis Run 3/14/2017 1:11 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



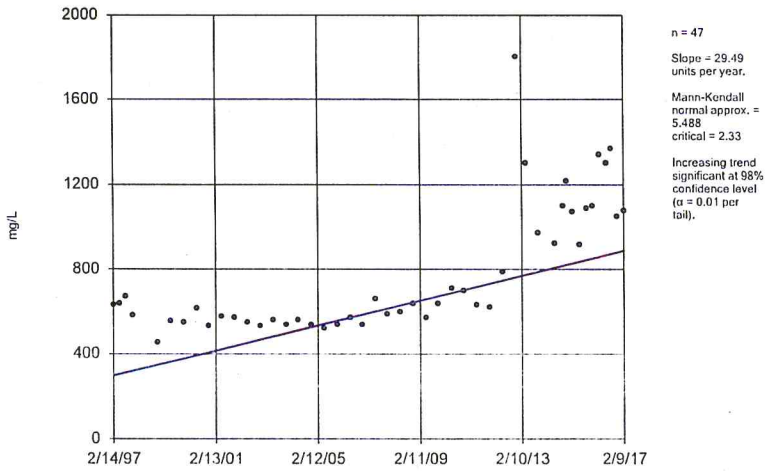
Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 1:11 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

104-SD



Constituent: Total Dissolved Solids [TDS] Analysis Run 3/14/2017 1:11 PM

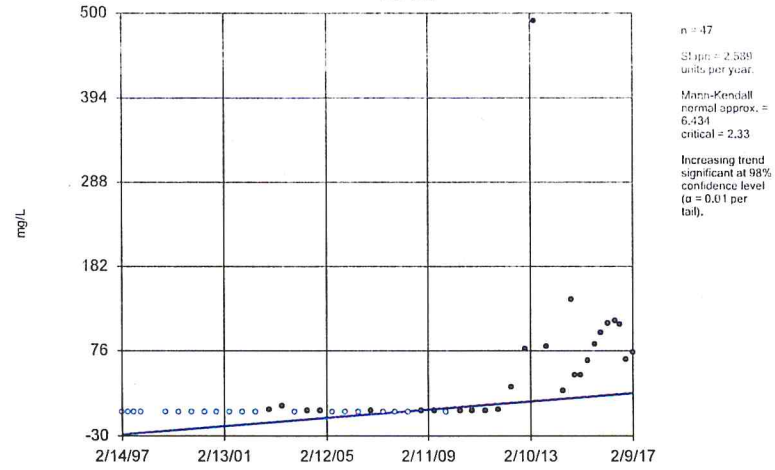
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

104-SD



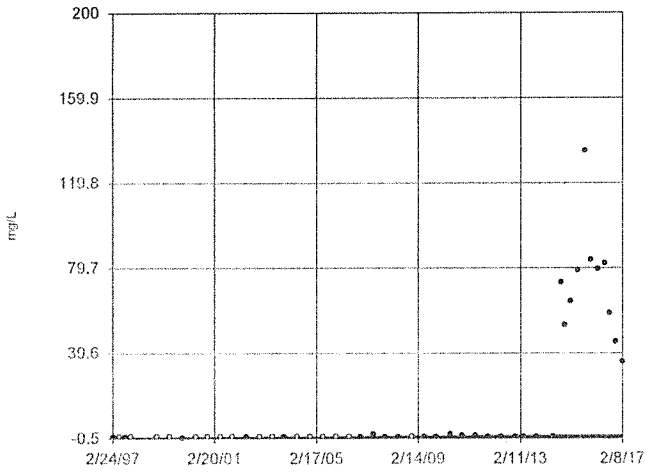
Constituent: Total Organic Carbon [TOC] Analysis Run 3/14/2017 1:11 PM

Bridgeton LF Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SD



n = 47

Slope = 0.05069 units per year.

Mann-Kendall normal approx. = 6.135
critical = 2.33

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

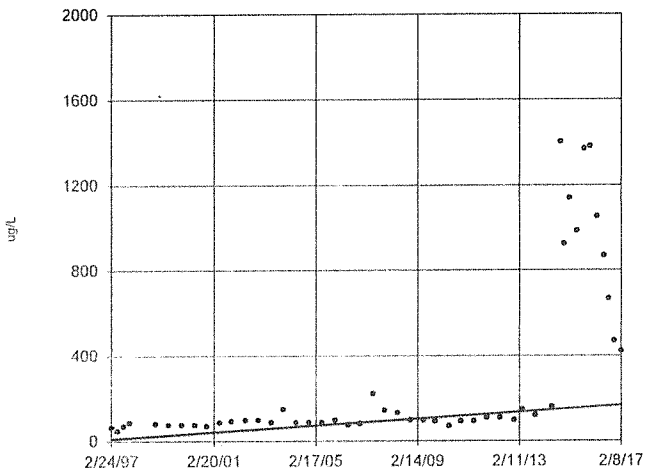
Constituent: Ammonia as N Analysis Run 3/14/2017 1:12 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Sen's Slope Estimator

106-SD



n = 47

Slope = 7.859 units per year.

Mann-Kendall normal approx. = 6.193
critical = 2.33

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

Constituent: Barium Total Analysis Run 3/14/2017 1:12 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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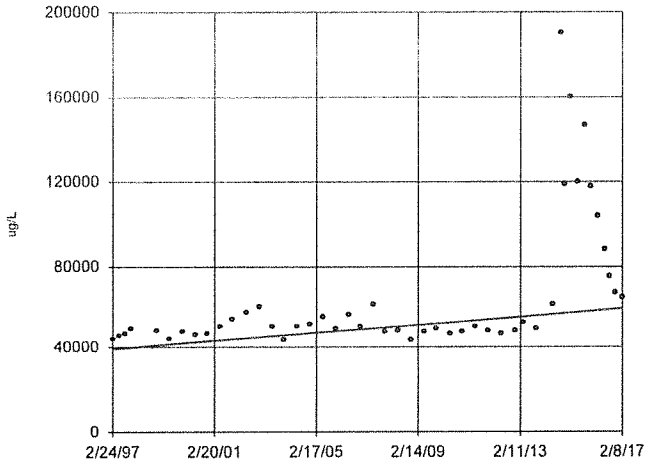
Sen's Slope Estimator

106-SD



n = 47

Slope = 1058 units per year.

Mann-Kendall normal approx. = 4.178
critical = 2.33

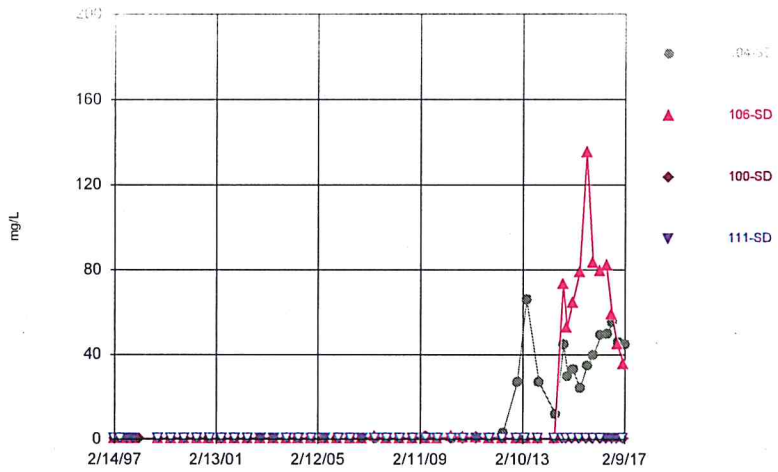
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Magnesium Total Analysis Run 3/14/2017 1:12 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

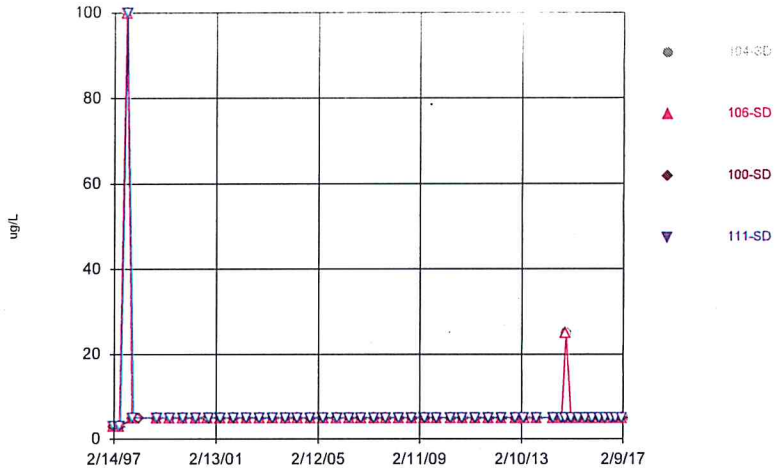
TIME SERIES GRAPHS

Time Series



Constituent: Ammonia as N Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



Constituent: Antimony Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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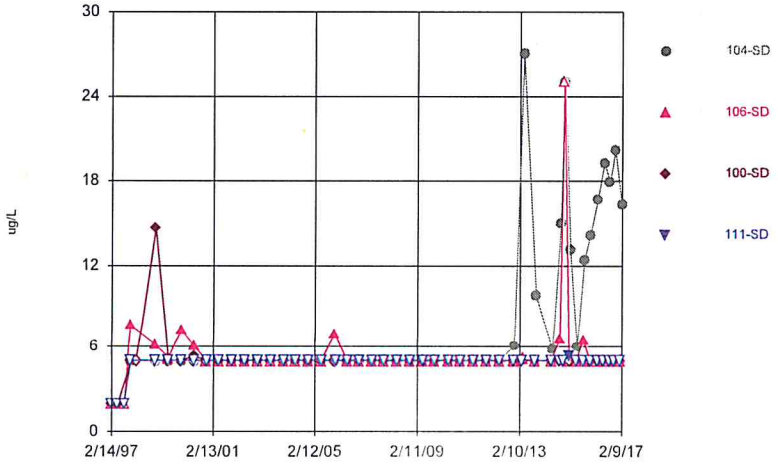
Hollow symbols indicate censored values.

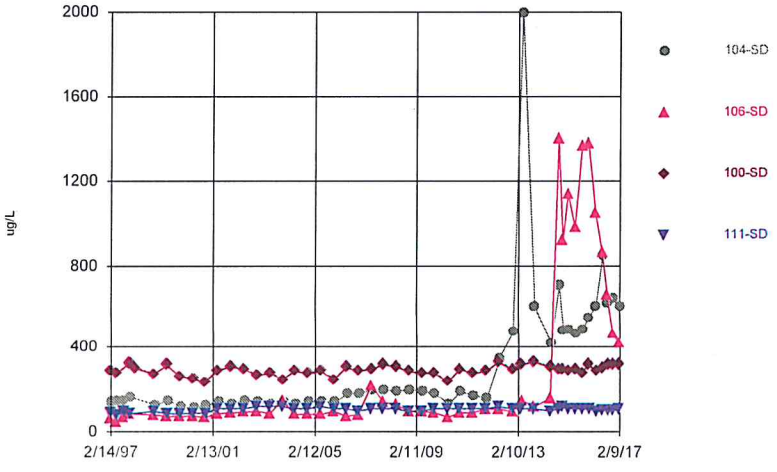
Time Series



Constituent: Arsenic Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Time Series



Constituent: Barium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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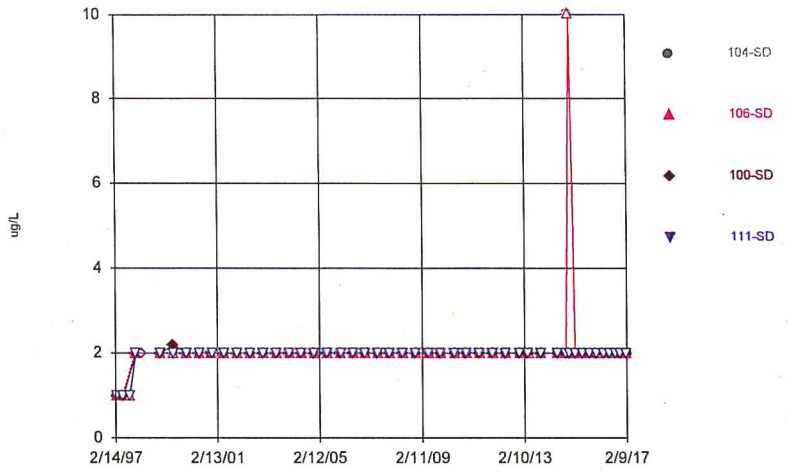
Hollow symbols indicate censored values.

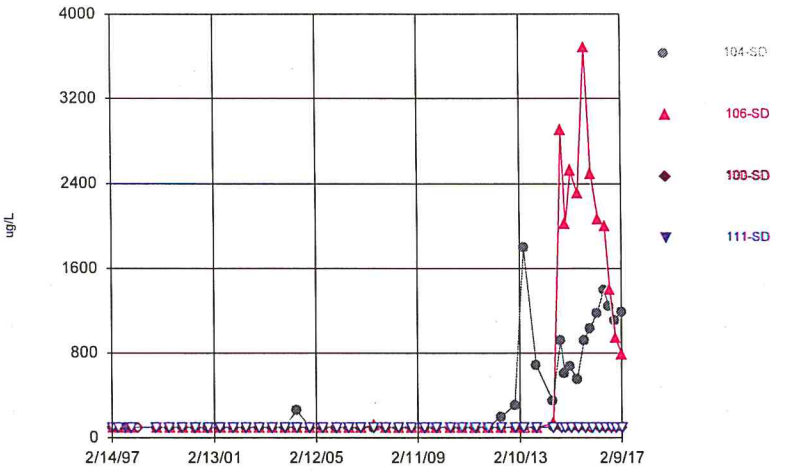
Time Series



Constituent: Beryllium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

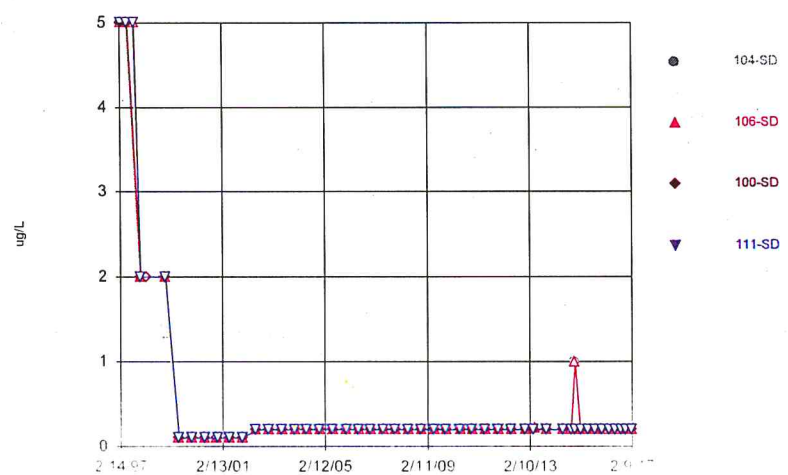
Time Series



Constituent: Boron Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



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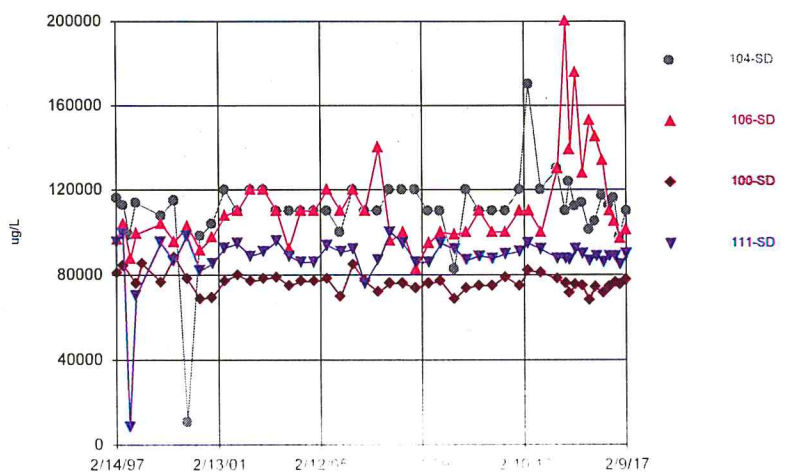
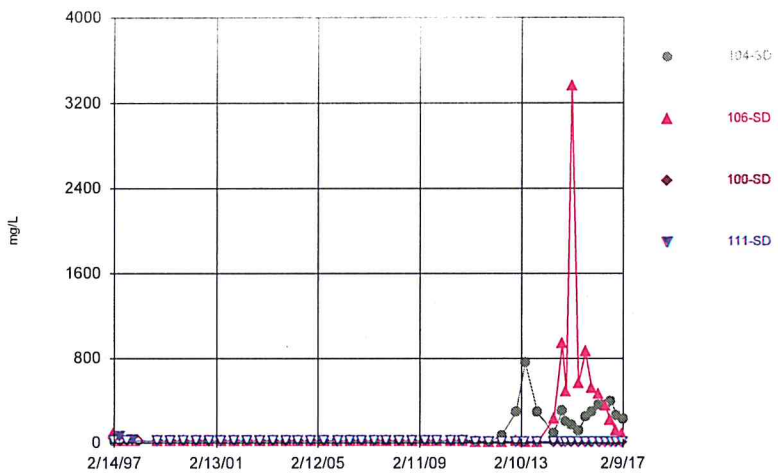
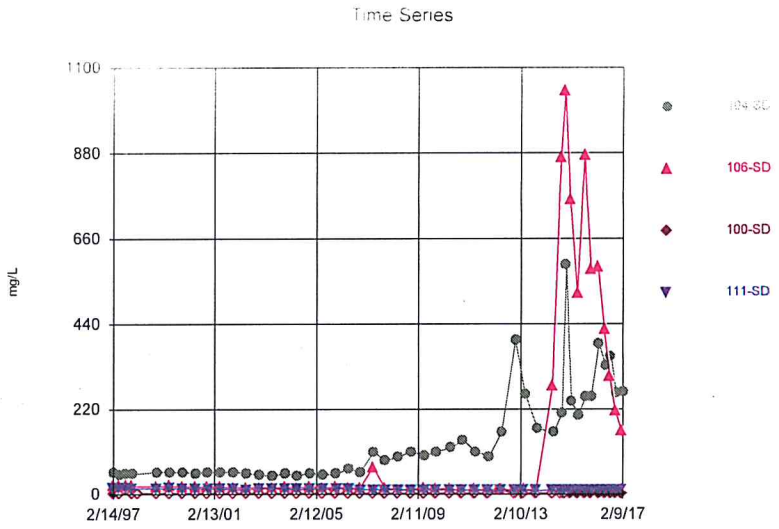
Time Series





Constituent: Chemical Oxygen Demand [COD] Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF



Constituent: Chloride Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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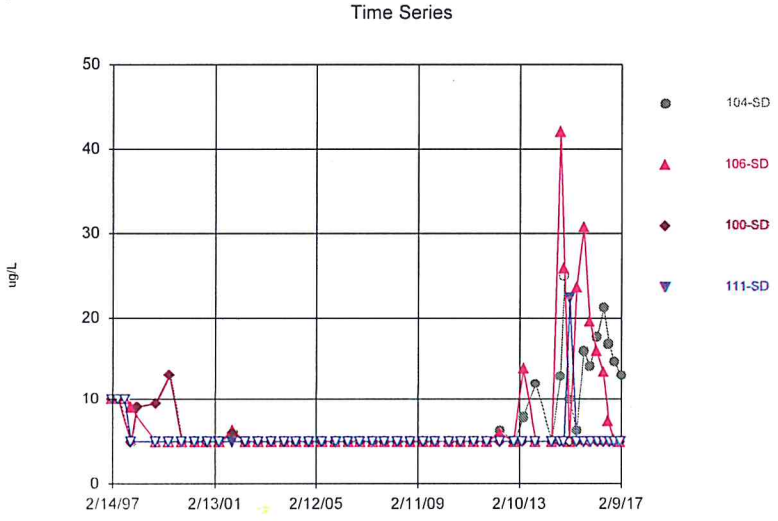
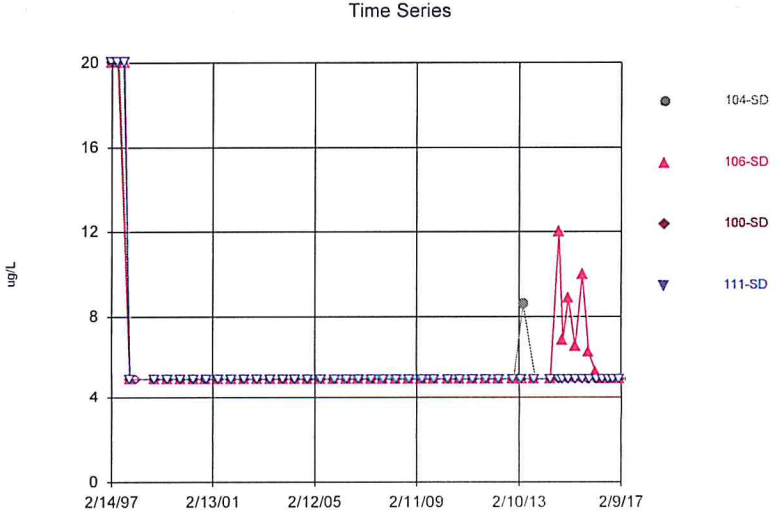
Hollow symbols indicate censored values.



Constituent: Chromium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Constituent: Cobalt Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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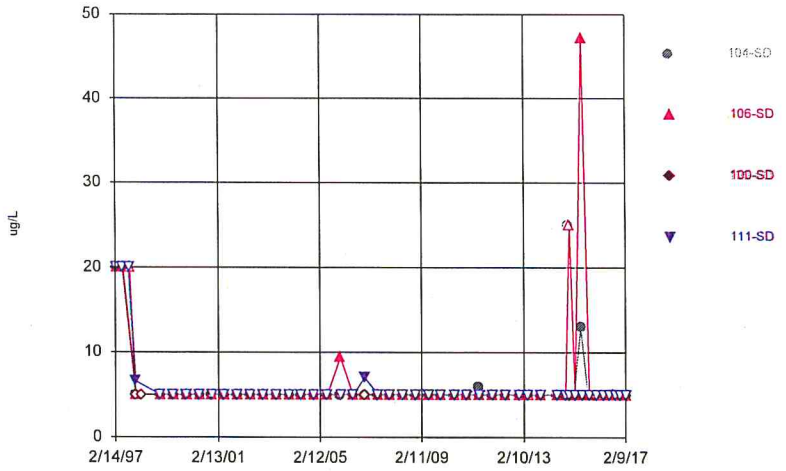
Hollow symbols indicate censored values.

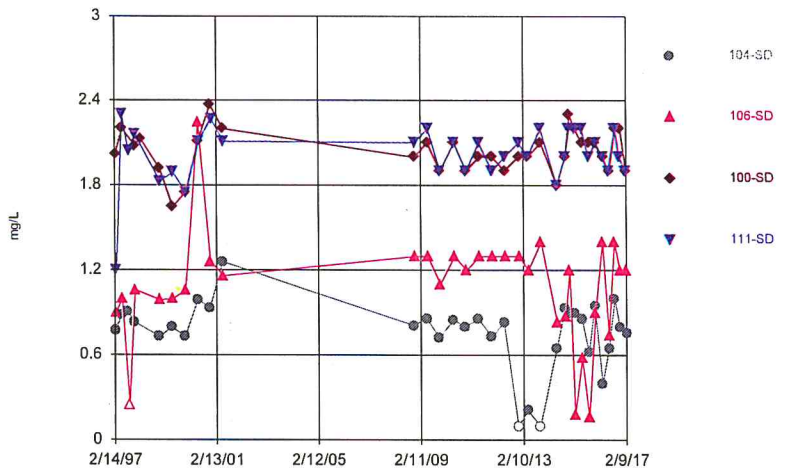
Time Series



Constituent: Copper Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

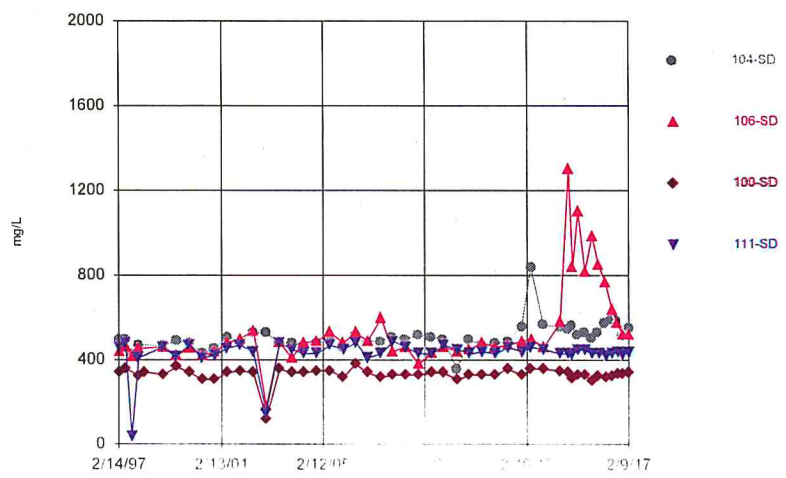
Time Series



Constituent: Fluoride Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

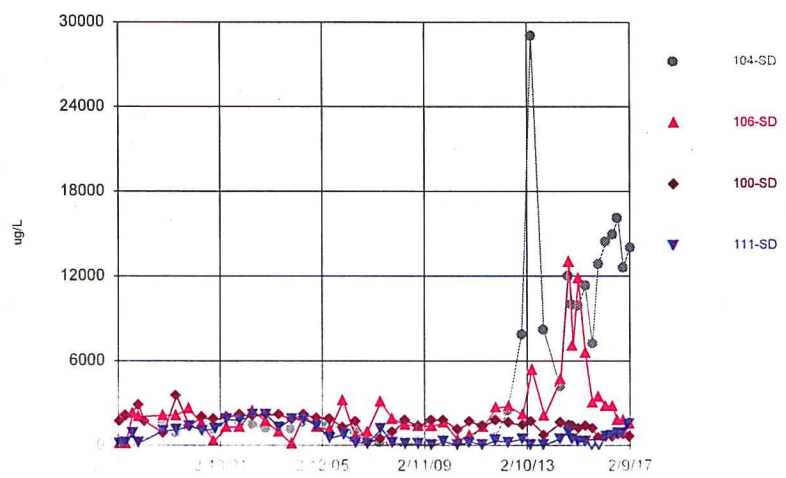
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Time Series

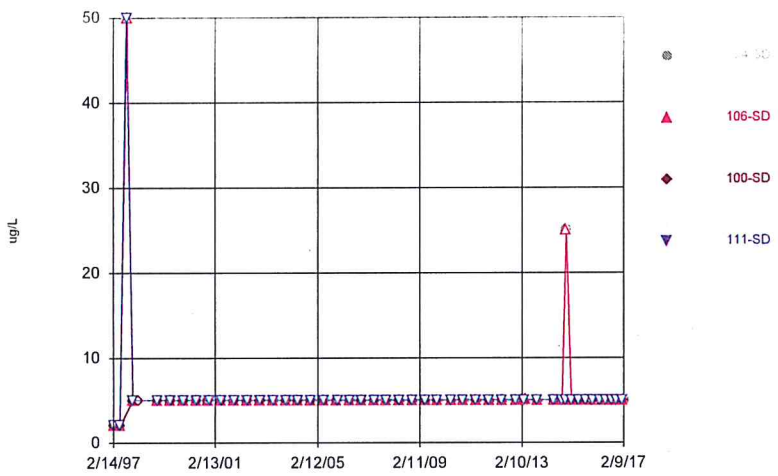


Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

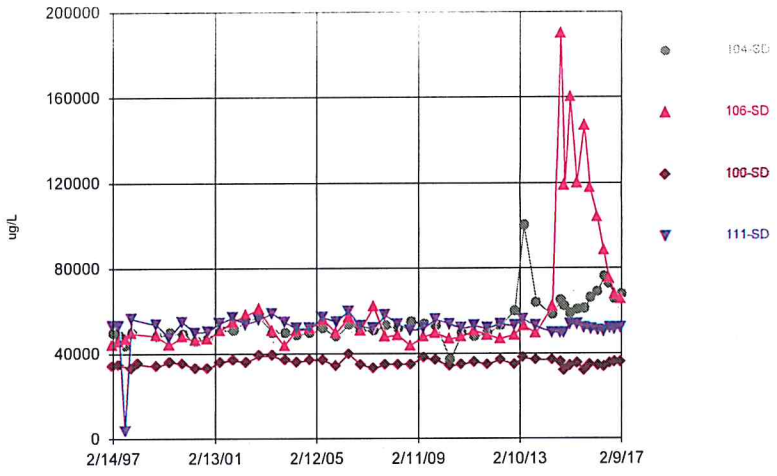
Time Series



Time Series



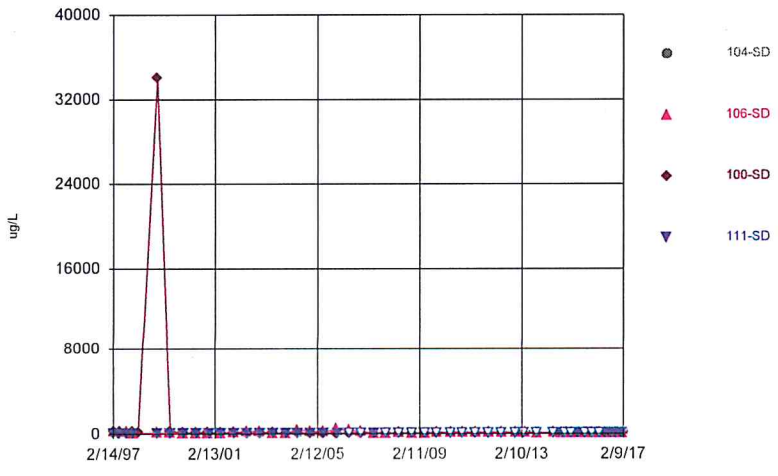
Constituent: Lead Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF



Constituent: Magnesium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

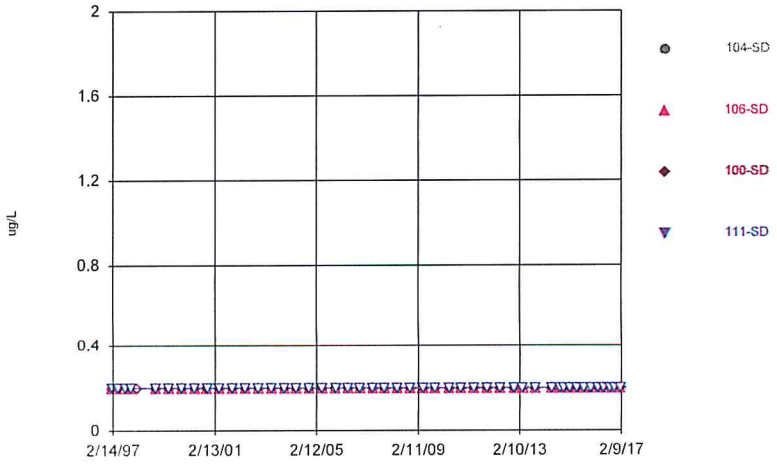
Time Series



Constituent: Manganese Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

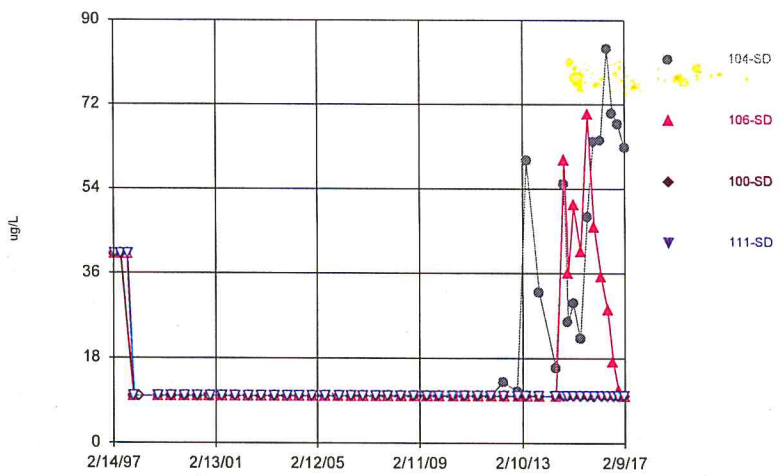
Time Series



Constituent: Mercury Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

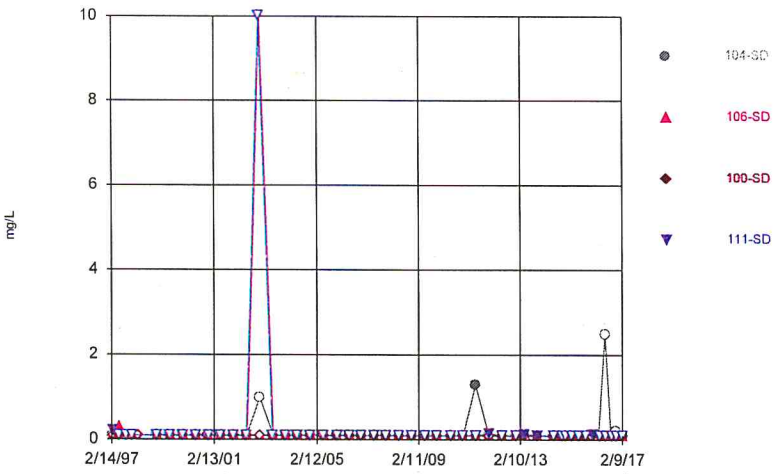
Time Series



Constituent: Nickel Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

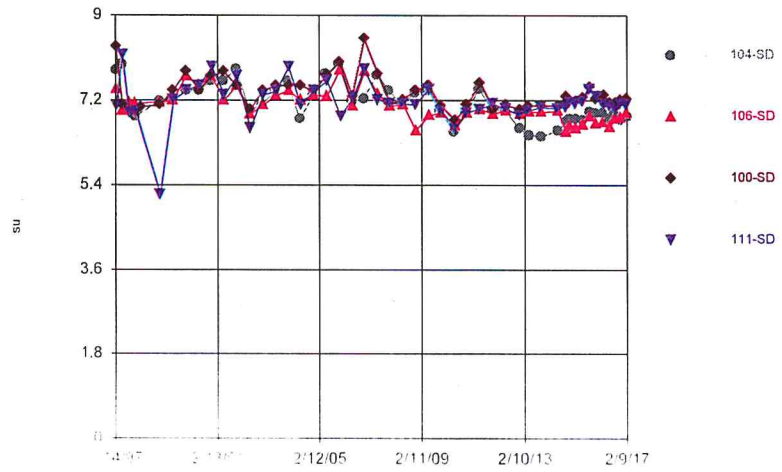
Time Series



Constituent: Nitrate/Nitrite Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

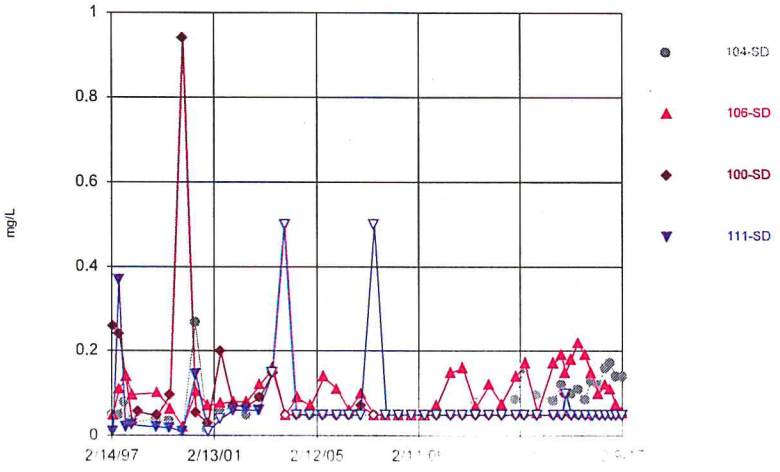
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

Time Series

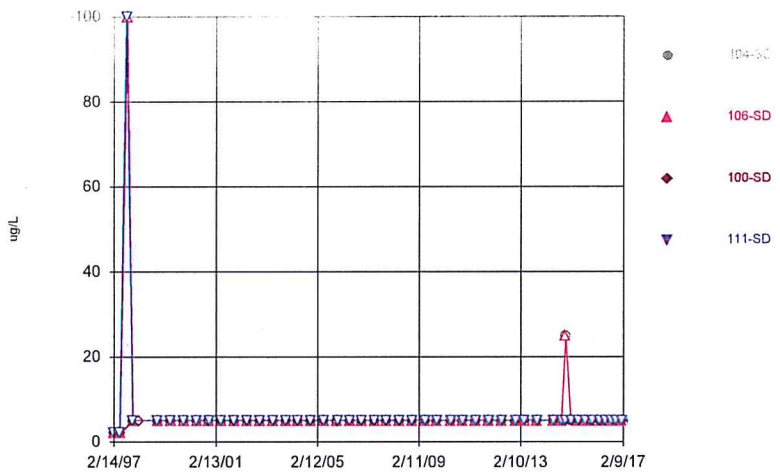


Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series

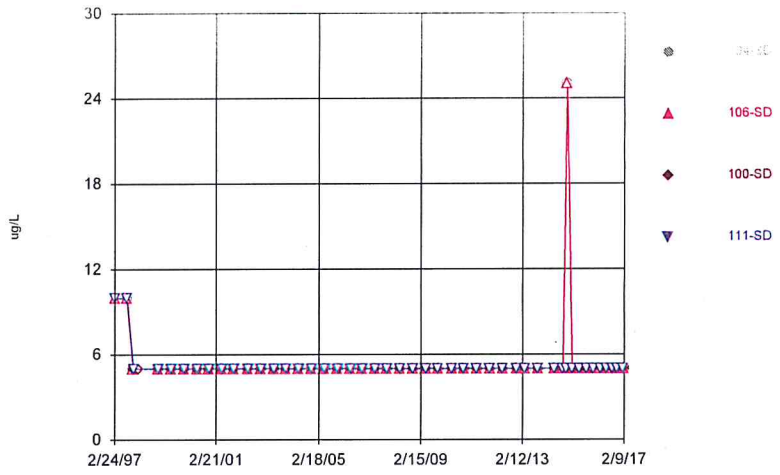


Time Series



Constituent: Selenium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

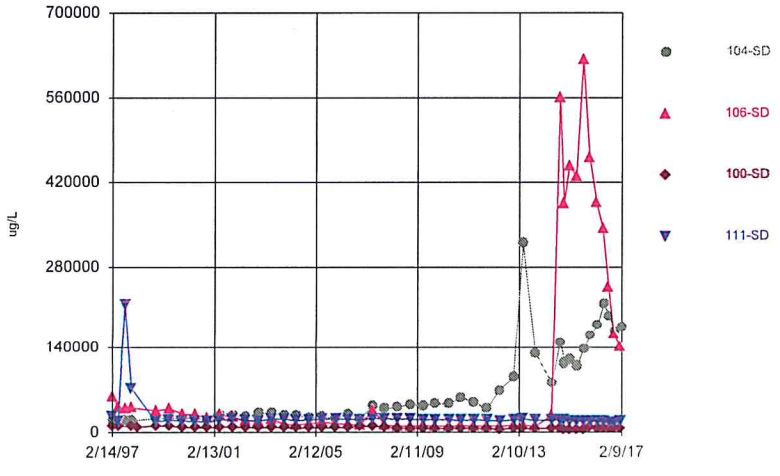
Time Series



Constituent: Silver Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

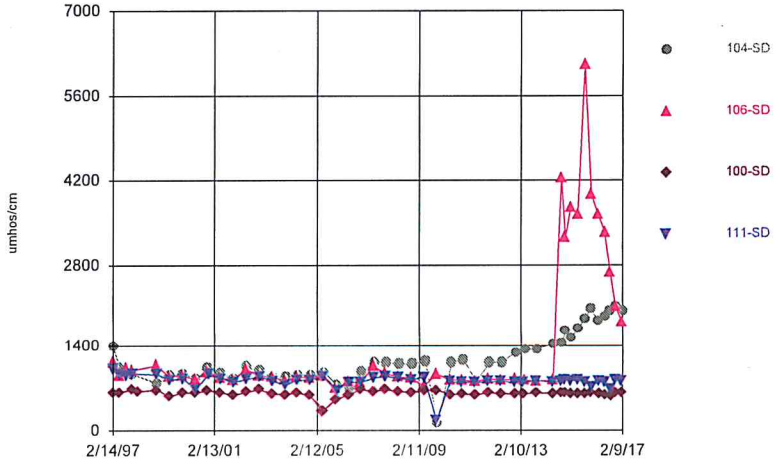
Time Series



Constituent: Sodium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

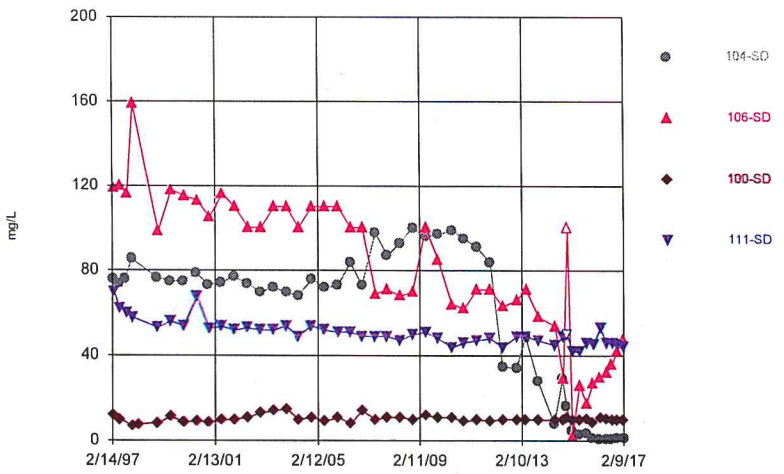
Time Series



Constituent: Specific Conductance [Field] Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate

Time Series



Constituent: Sulfate Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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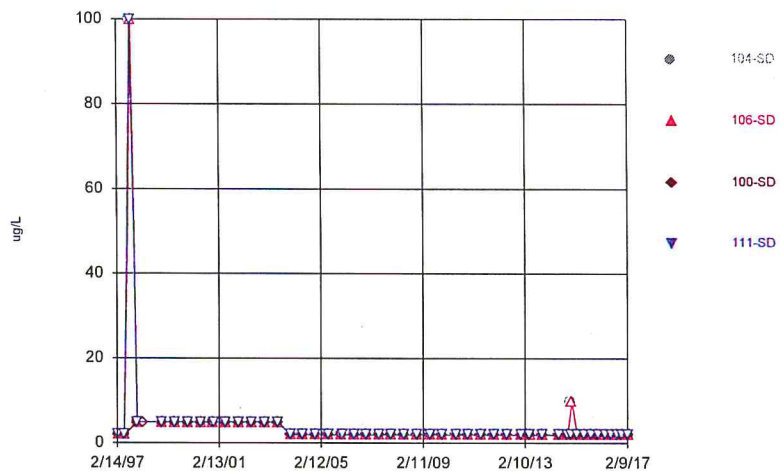
Hollow symbols indicate censored values.

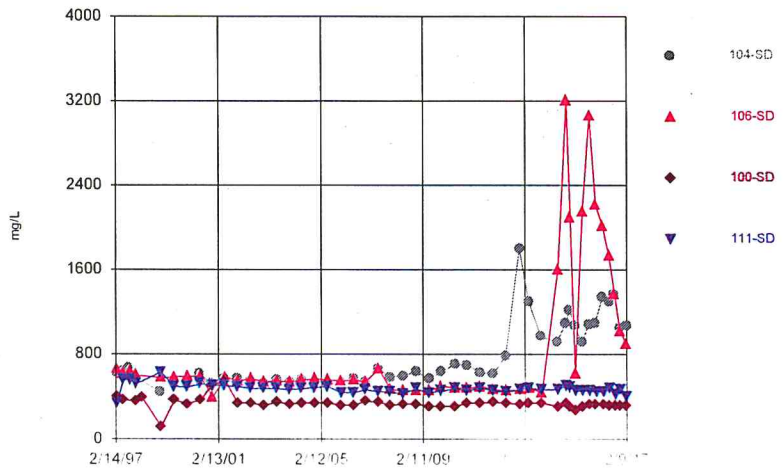
Time Series



Constituent: Thallium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

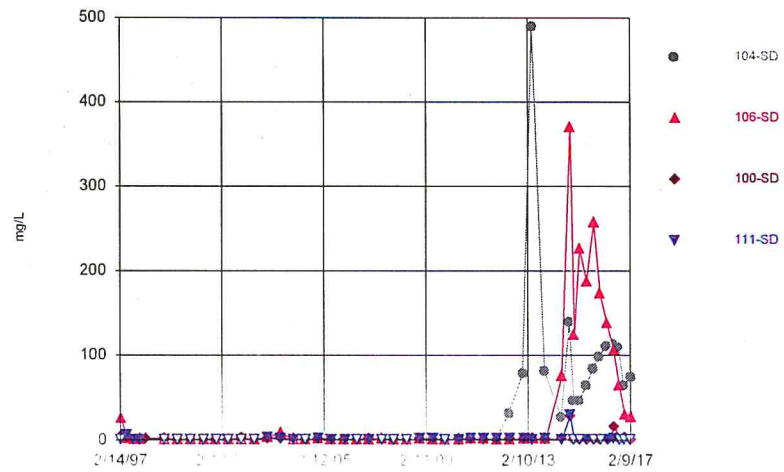
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG

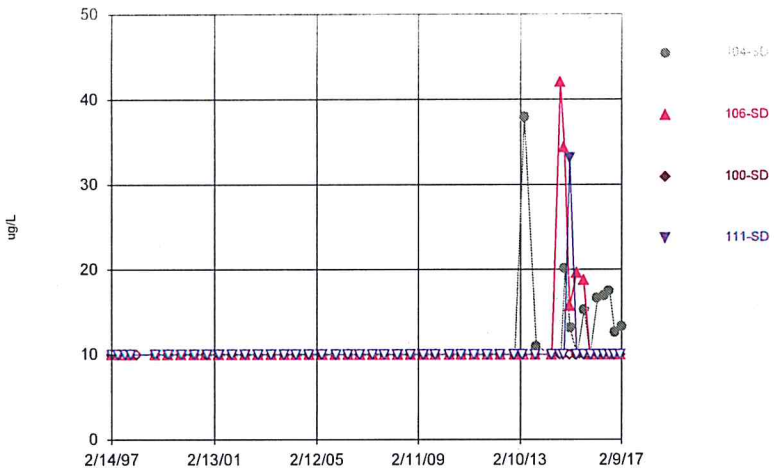
Time Series



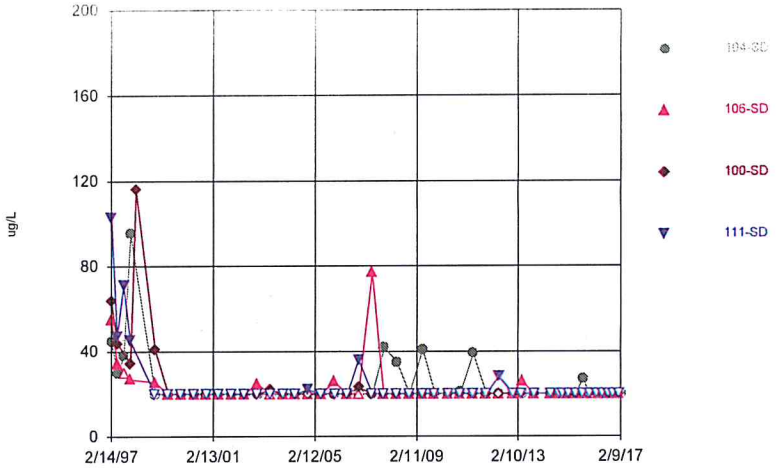
Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series





Constituent: Vanadium Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF



Constituent: Zinc Total Analysis Run 3/14/2017 10:26 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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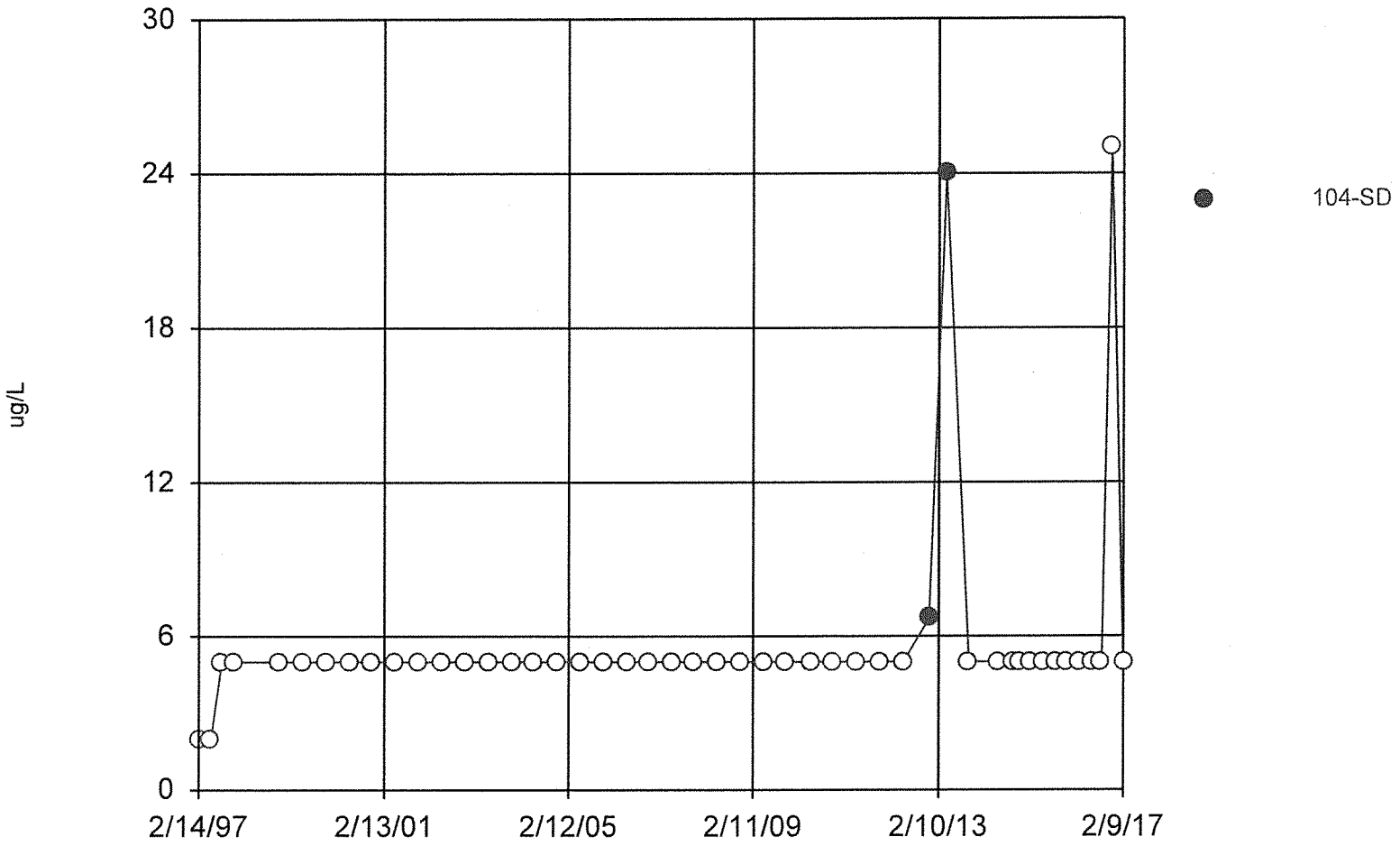
Hollow symbols indicate censored values.

Time Series



Constituent: 12-Dichloroethane Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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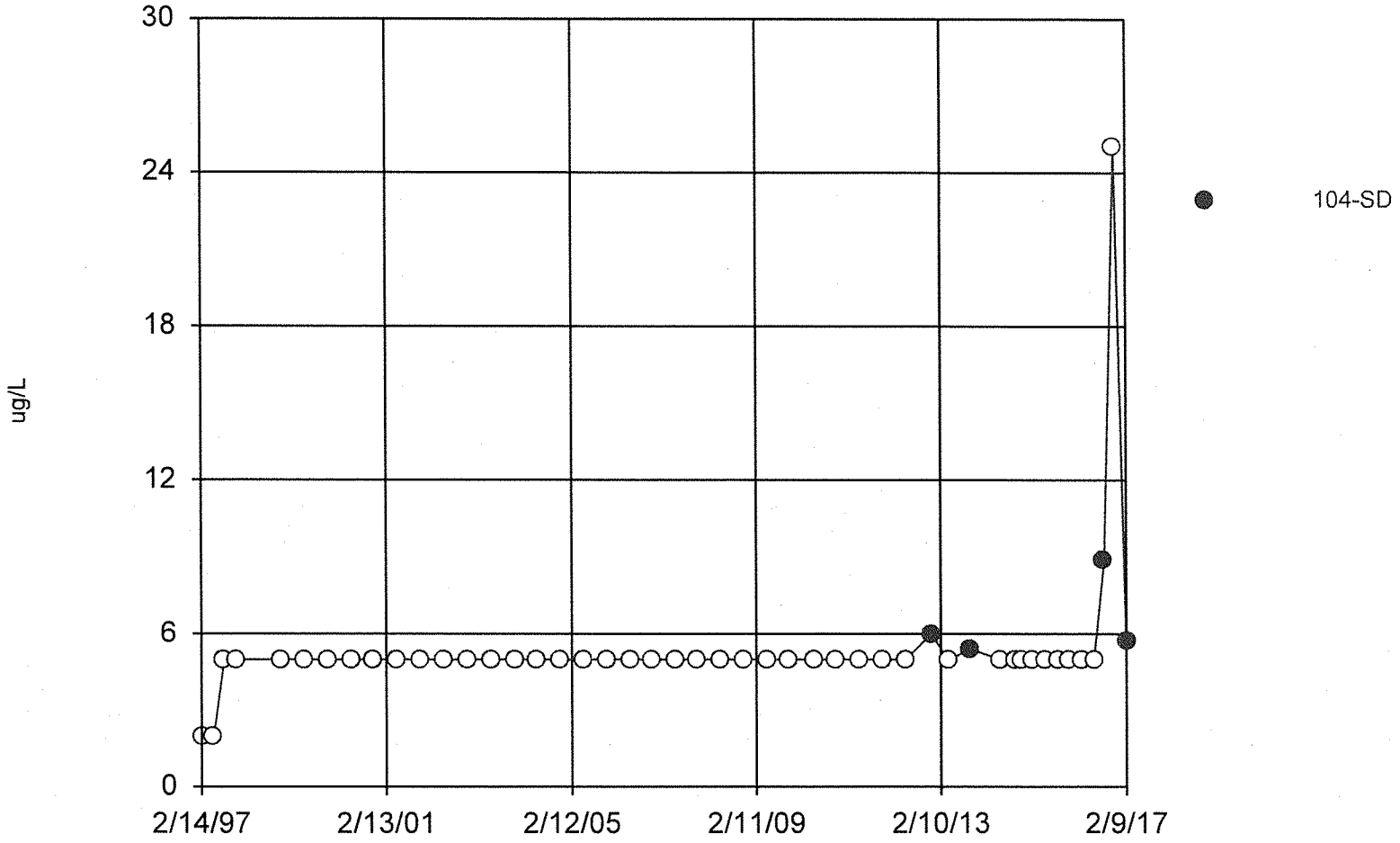
Hollow symbols indicate censored values.

Time Series



Constituent: 14-Dichlorobenzene Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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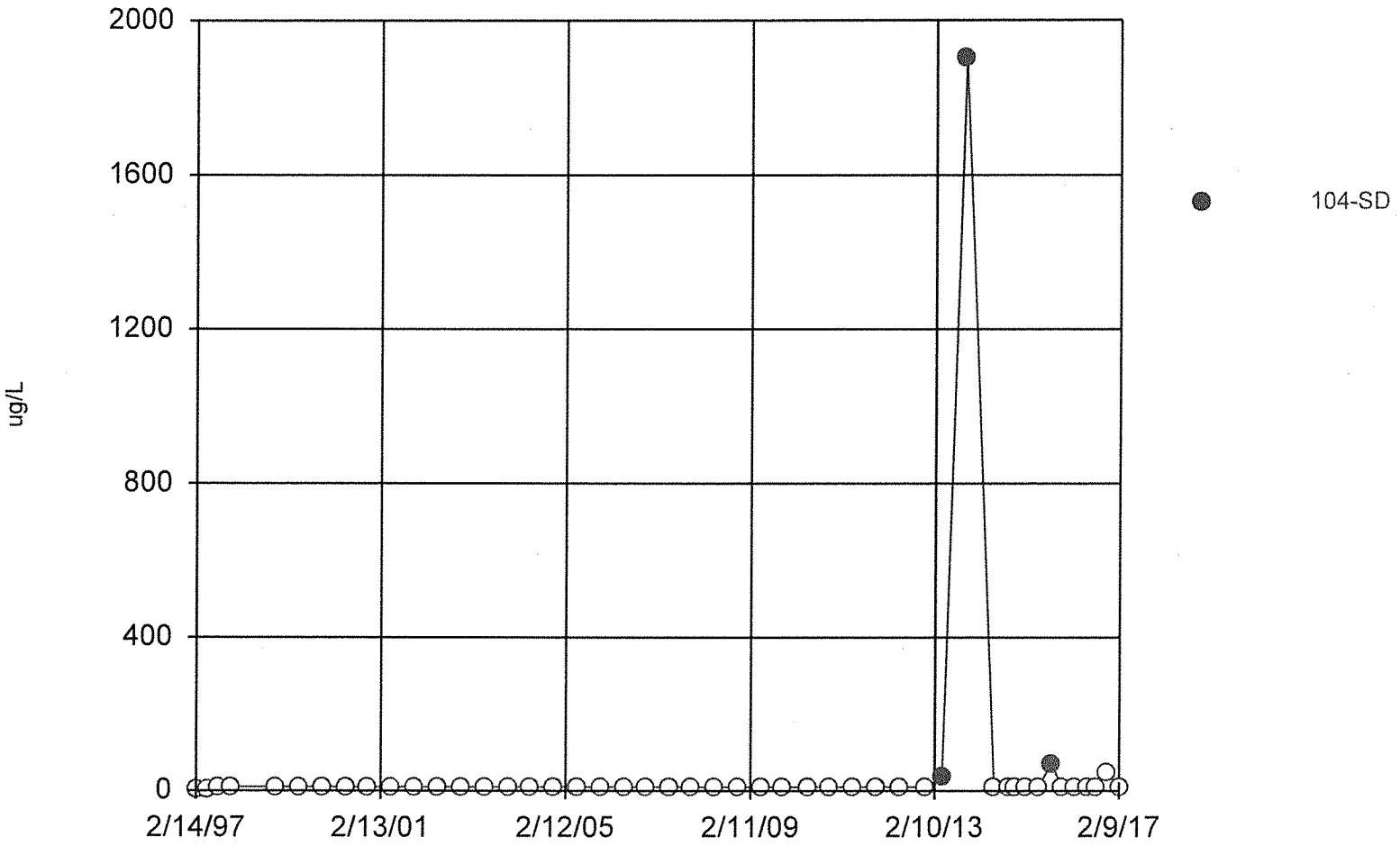
Hollow symbols indicate censored values.

Time Series



Constituent: 2-Butanone [MEK] Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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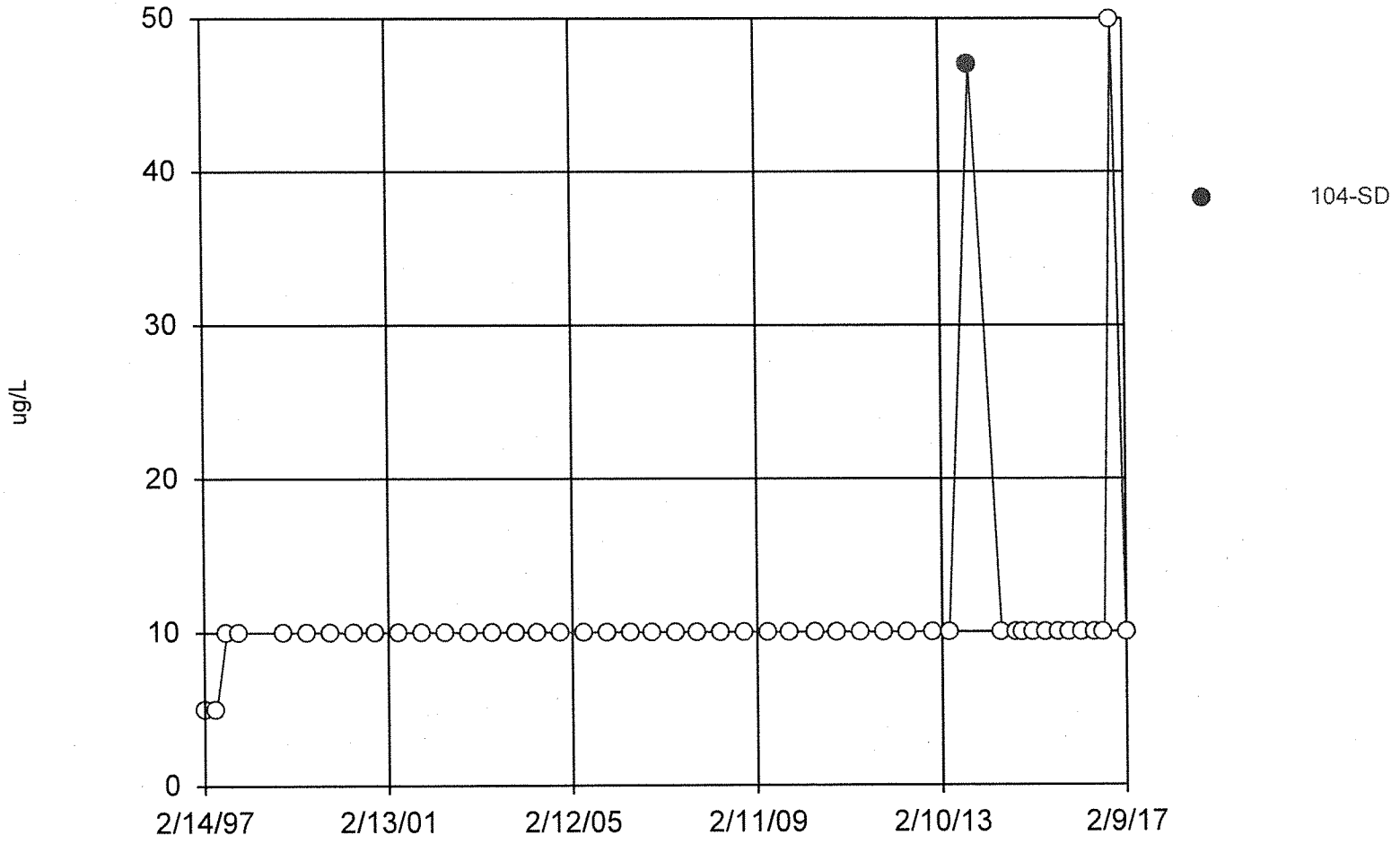
Hollow symbols indicate censored values.

Time Series

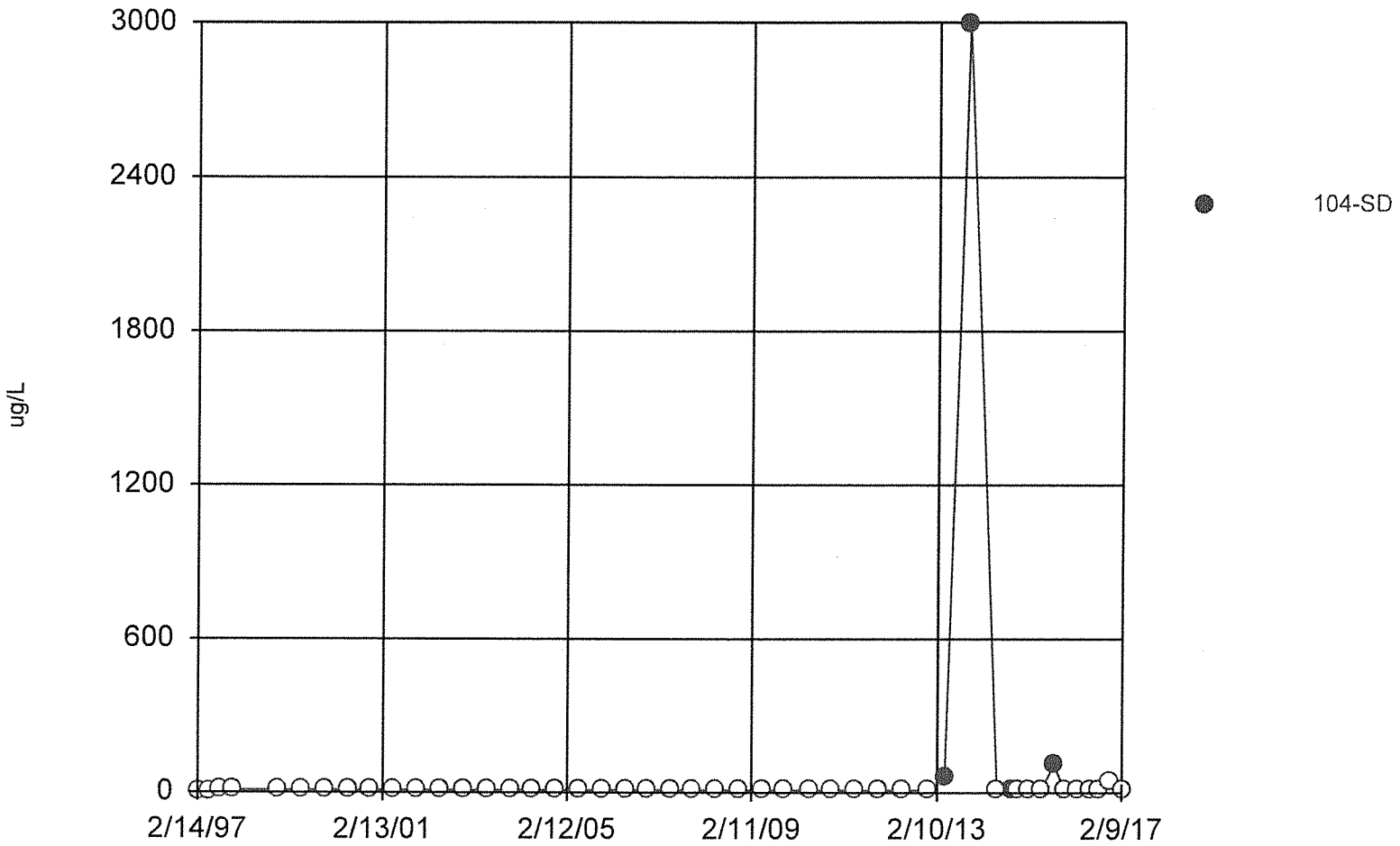


Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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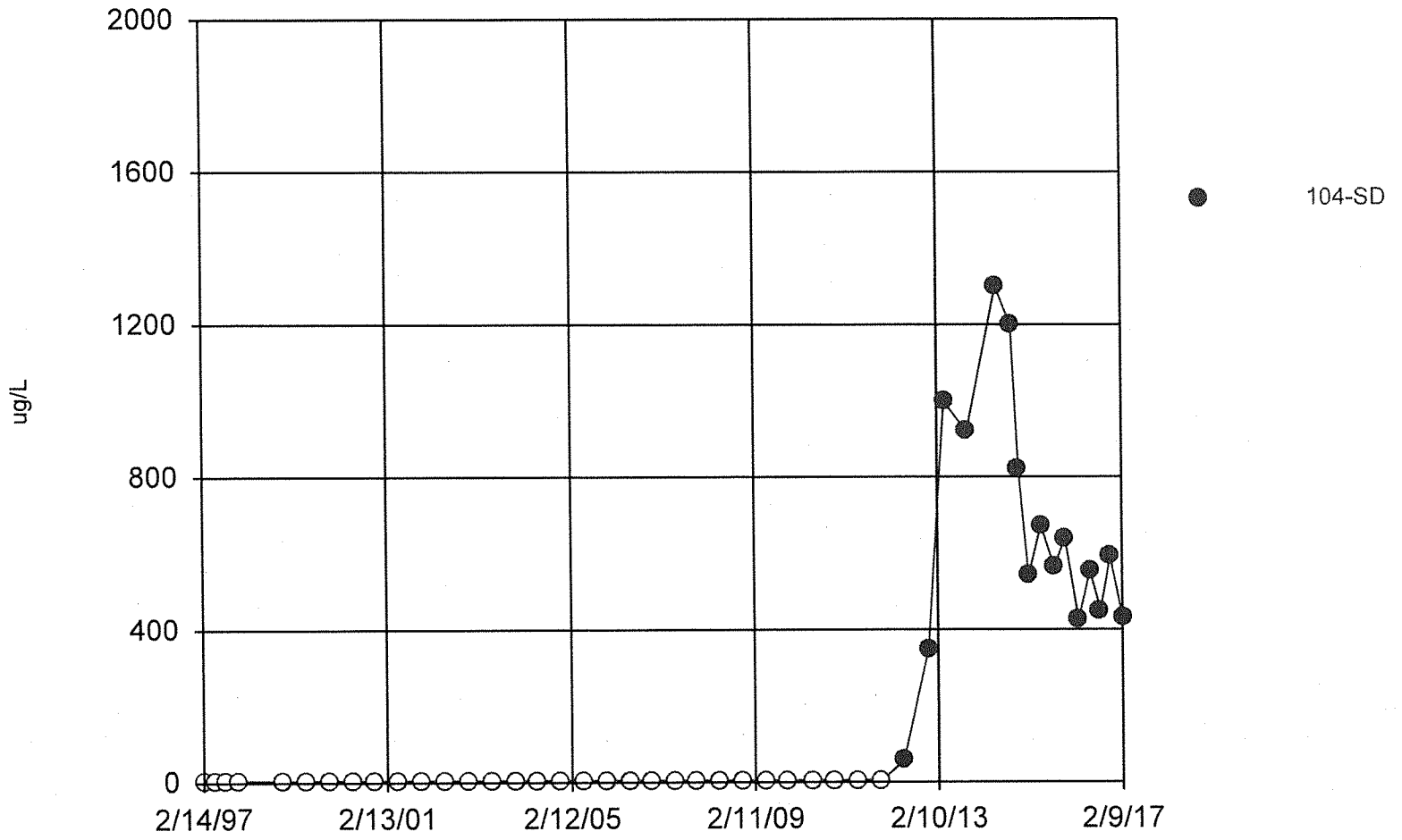
Hollow symbols indicate censored values.

Time Series

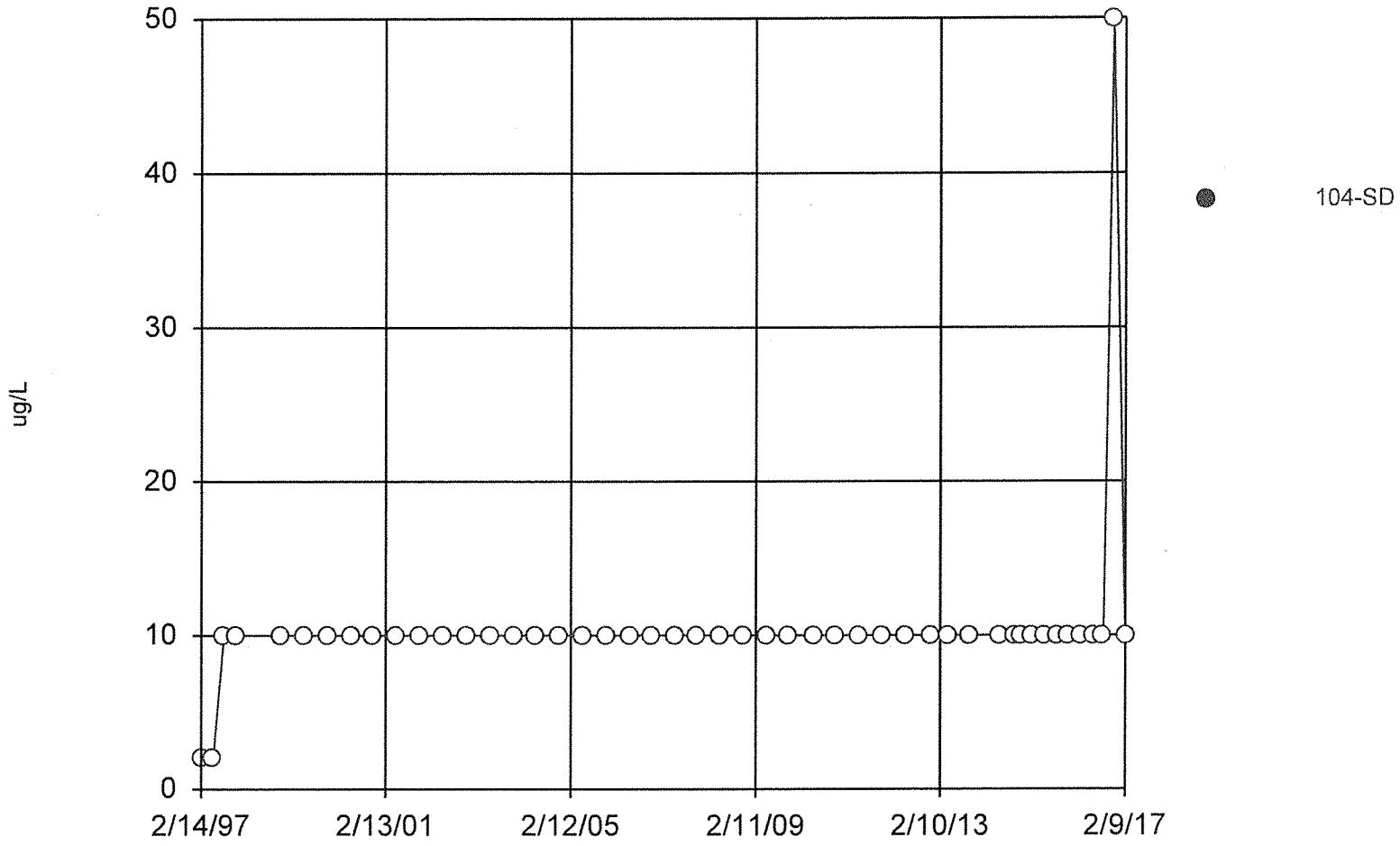


Constituent: Benzene Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Geosyntec Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series

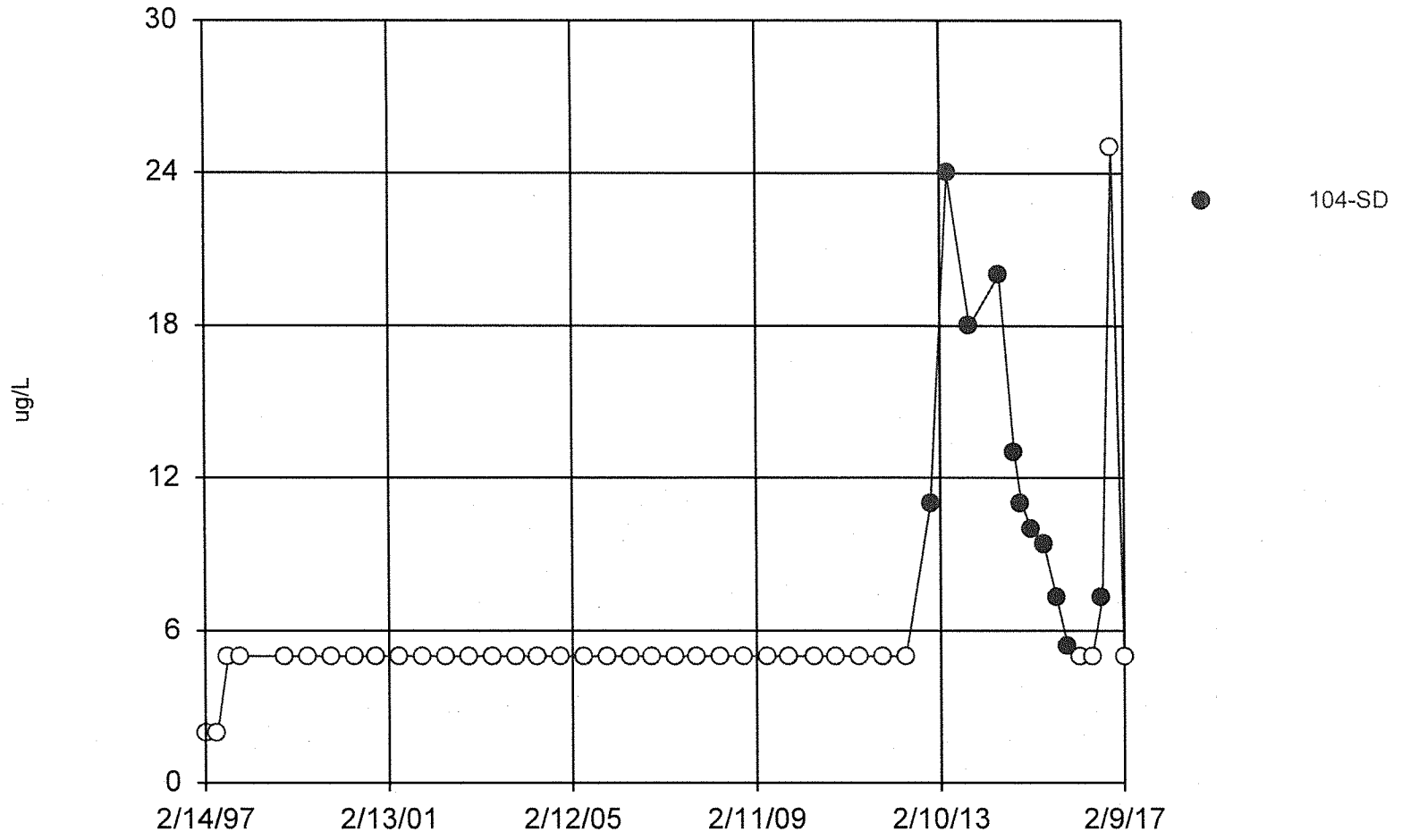


Constituent: Chloroethane Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

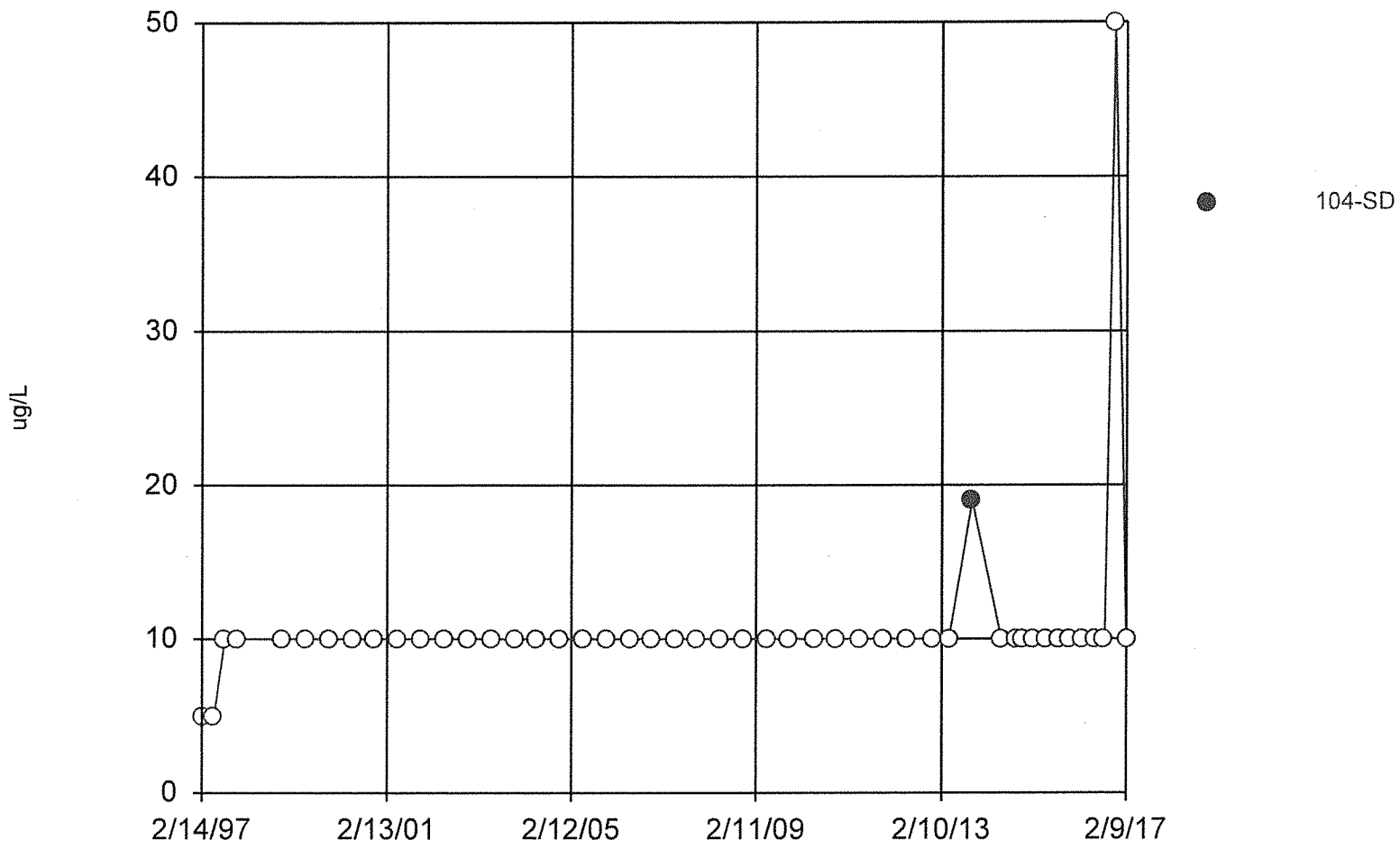


Constituent: Ethylbenzene Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting, LLC
Hollow symbols indicate censored values.

Time Series

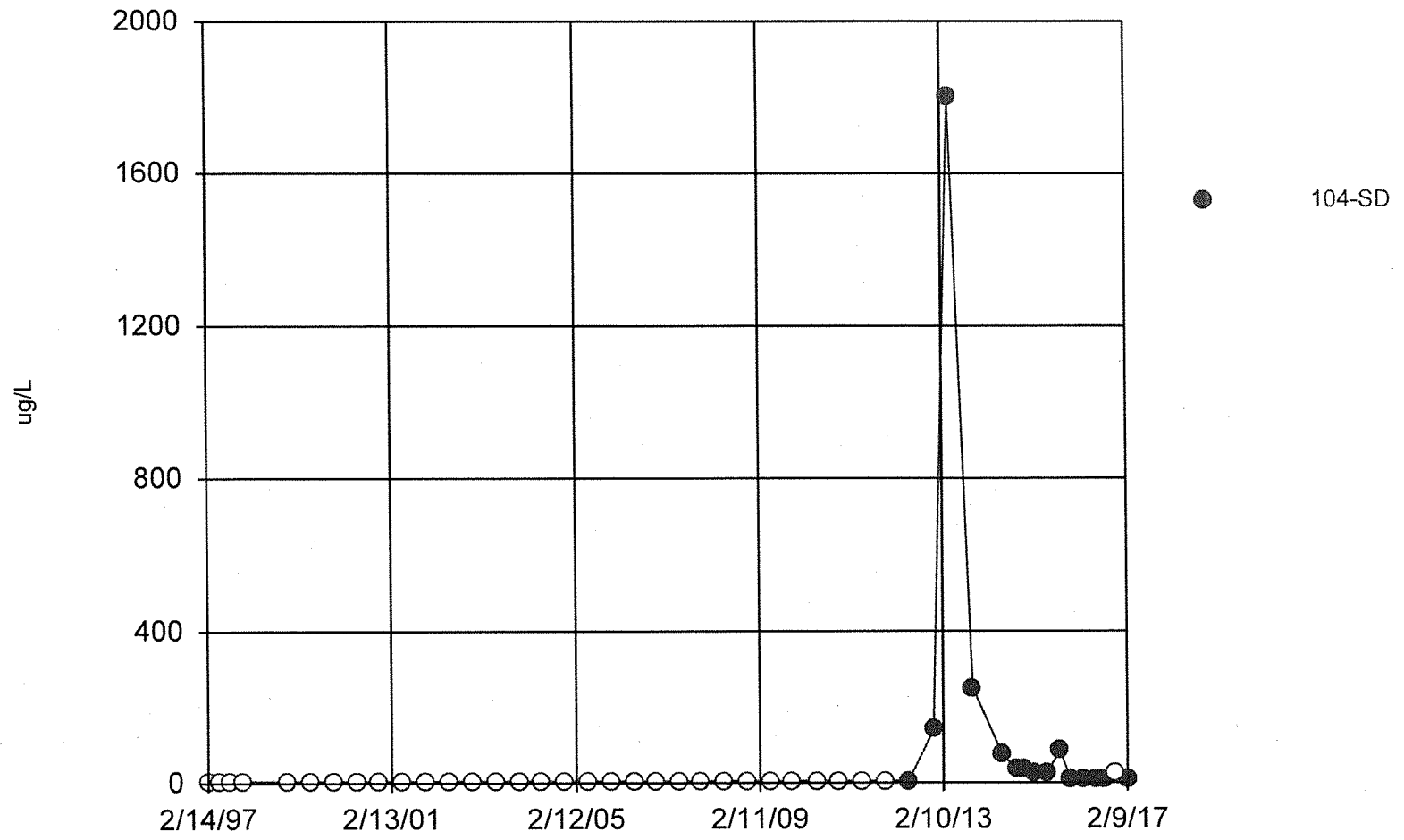


Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

Sanitas™ v.9.5.30 Software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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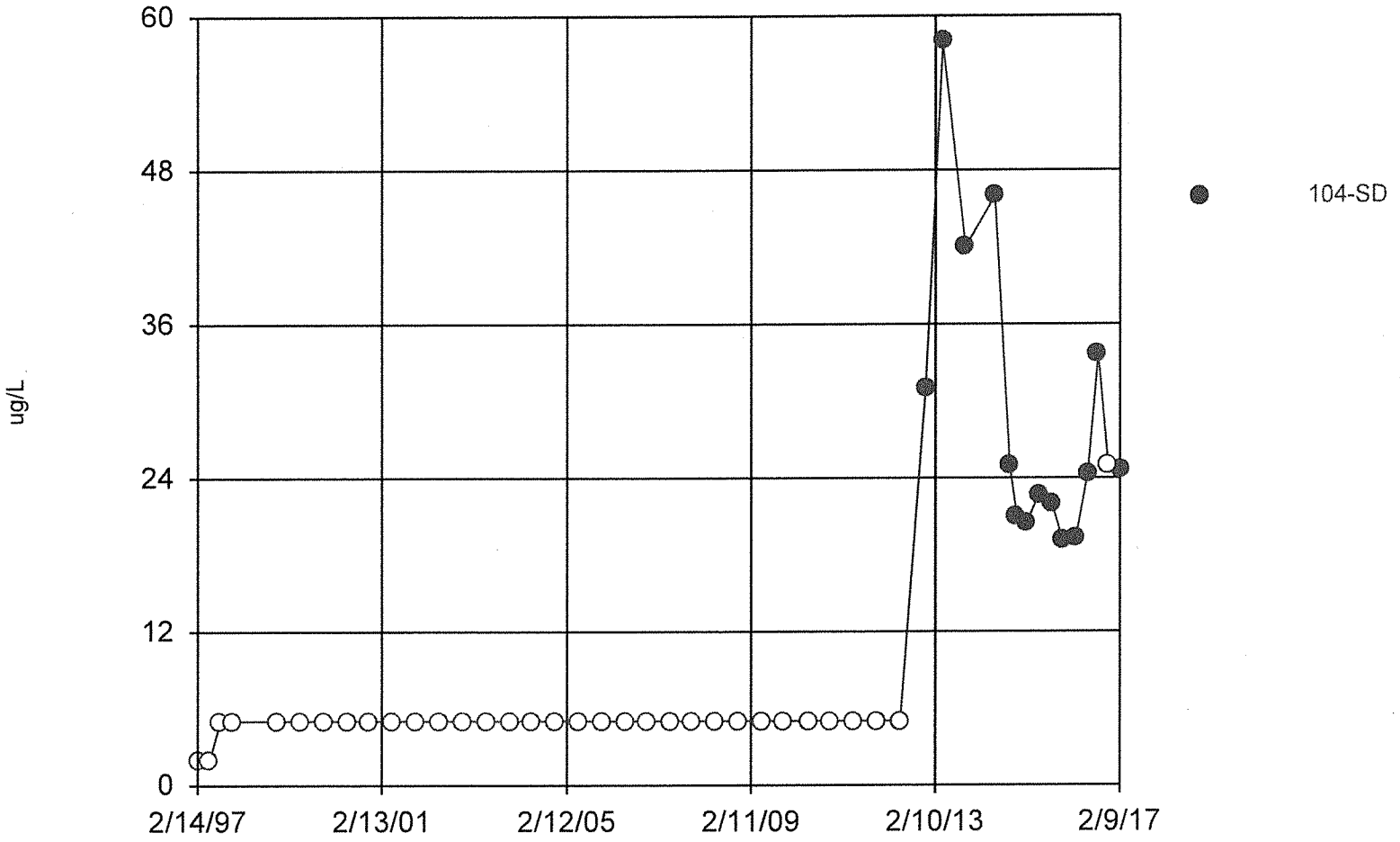
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes Total Analysis Run 3/14/2017 3:33 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

APPENDIX F
LABORATORY ANALYTICAL REPORT

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
Not NELAP Accredited
4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

March 06, 2017

Environmental Manager
Bridgeton Landfill LLC
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Dear Environmental Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2017 and February 18, 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.

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.

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Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 003971
Indiana Certification #: C-49-06
Kansas/NELAP Certification #:E-10177
Kentucky UST Certification #: 80226
Kentucky WW Certification #:98019
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50164541001	PZ-109-SS	Water	02/07/17 08:36	02/09/17 08:20
50164541002	PZ-110-SS	Water	02/07/17 09:33	02/09/17 08:20
50164541003	PZ-111-SD	Water	02/07/17 10:47	02/09/17 08:20
50164541004	PZ-205-SS	Water	02/07/17 11:53	02/09/17 08:20
50164541005	PZ-100-SD	Water	02/08/17 08:32	02/09/17 08:20
50164541007	PZ-106-SS	Water	02/08/17 10:55	02/09/17 08:20
50164541008	PZ-106-SD	Water	02/08/17 12:05	02/09/17 08:20
50164541009	Trip Blank	Water	02/08/17 08:00	02/09/17 08:20
50164541010	PZ-100-SS	Water	02/08/17 09:22	02/11/17 10:10
50164541011	PZ-105-SS	Water	02/09/17 08:46	02/11/17 10:10
50164541012	PZ-104-SS	Water	02/09/17 11:00	02/11/17 10:10
50164541013	PZ-104-SD	Water	02/09/17 11:56	02/11/17 10:10
50164541014	Trip Blank	Water	02/10/17 08:00	02/11/17 10:10
50164541015	PZ-201A-SS	Water	02/17/17 11:25	02/18/17 10:00
50164541016	PZ-115-SS	Water	02/17/17 13:24	02/18/17 10:00
50164541017	PZ-115-SS DUP	Water	02/17/17 13:24	02/18/17 10:00
50164541018	PZ-114-AS	Water	02/17/17 13:57	02/18/17 10:00
50164541019	Trip Blank	Water	02/17/17 08:00	02/18/17 10:00

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50164541001	PZ-109-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SCM	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541002	PZ-110-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SCM	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541003	PZ-111-SD	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SCM	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541004	PZ-205-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	PTH	50
		SM 2540C	SCM	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541005	PZ-100-SD	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SKK	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541007	PZ-106-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SKK	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541008	PZ-106-SD	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SKK	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541009	Trip Blank	EPA 8260	PTH	50
50164541010	PZ-100-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	SCM	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541011	PZ-105-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	EJS	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541012	PZ-104-SS	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	EJS	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50164541013	**PZ-104-SD**	EPA 9056	RID	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	PTH	50
		SM 2540C	EJS	1
		EPA 410.4	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541014	Trip Blank	EPA 8260	PTH	50
50164541015	**PZ-201A-SS**	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	CAP	50
		SM 2540C	EJS	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541016	**PZ-115-SS**	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	CAP	50
		SM 2540C	EJS	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541017	**PZ-115-SS DUP**	EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50164541018	PZ-114-AS	EPA 7470	ILP	1
		EPA 8260	CAP	50
		SM 2540C	EJS	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	RID	3
		EPA 6010	JPK	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	CAP	50
		SM 2540C	EJS	1
		EPA 410.4	ZM	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50164541019	Trip Blank	EPA 8260	CAP	50

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541001	**PZ-109-SS**					
	Field pH	7.00	Std. Units		02/07/17 08:36	
	Field Temperature	20.3	deg C		02/07/17 08:36	
	Field Specific Conductance	810	umhos/cm		02/07/17 08:36	
	Field Oxidation Potential	137	mV		02/07/17 08:36	
	Oxygen, Dissolved	0.41	mg/L		02/07/17 08:36	
	Field Turbidity	0.00	NTU		02/07/17 08:36	
	Total Well Depth	130.92	feet		02/07/17 08:36	
	Elevation Water Level	438.27	ft/msl		02/07/17 08:36	
	Collar Elevation	460.19	ft/msl		02/07/17 08:36	
	Depth to Water	21.92	feet		02/07/17 08:36	
EPA 9056	Chloride	3.9	mg/L	0.25	02/15/17 02:46	
EPA 9056	Fluoride	2.1	mg/L	0.10	02/15/17 02:46	
EPA 9056	Sulfate	21.3	mg/L	2.5	02/15/17 03:38	
EPA 6010	Barium	59.5	ug/L	10.0	02/15/17 08:30	
EPA 6010	Boron	184	ug/L	100	02/15/17 08:30	
EPA 6010	Calcium	89000	ug/L	500	02/15/17 08:30	
EPA 6010	Magnesium	51600	ug/L	500	02/15/17 08:30	
EPA 6010	Sodium	10100	ug/L	1000	02/15/17 08:30	
EPA 6010	Total Hardness by 2340B	435000	ug/L	1000	02/15/17 08:30	
SM 2540C	Total Dissolved Solids	393	mg/L	10.0	02/10/17 07:06	
50164541002	**PZ-110-SS**					
	Field pH	6.69	Std. Units		02/07/17 09:33	
	Field Temperature	15.6	deg C		02/07/17 09:33	
	Field Specific Conductance	1930	umhos/cm		02/07/17 09:33	
	Field Oxidation Potential	-82	mV		02/07/17 09:33	
	Oxygen, Dissolved	0.28	mg/L		02/07/17 09:33	
	Field Turbidity	1.58	NTU		02/07/17 09:33	
	Total Well Depth	107.19	feet		02/07/17 09:33	
	Elevation Water Level	430.04	ft/msl		02/07/17 09:33	
	Collar Elevation	461.15	ft/msl		02/07/17 09:33	
	Depth to Water	31.11	feet		02/07/17 09:33	
EPA 9056	Chloride	187	mg/L	25.0	02/15/17 06:14	
EPA 9056	Fluoride	0.27	mg/L	0.10	02/15/17 05:39	
EPA 9056	Sulfate	55.3	mg/L	2.5	02/15/17 05:56	
EPA 6010	Barium	266	ug/L	10.0	02/15/17 08:41	
EPA 6010	Boron	222	ug/L	100	02/15/17 08:41	
EPA 6010	Calcium	224000	ug/L	5000	02/15/17 12:12	
EPA 6010	Iron	5780	ug/L	50.0	02/15/17 08:41	
EPA 6010	Magnesium	81800	ug/L	500	02/15/17 08:41	
EPA 6010	Manganese	154	ug/L	5.0	02/15/17 08:41	
EPA 6010	Nickel	14.0	ug/L	10.0	02/15/17 08:41	
EPA 6010	Sodium	78800	ug/L	1000	02/15/17 08:41	
EPA 6010	Total Hardness by 2340B	895000	ug/L	10000	02/15/17 12:12	
EPA 8260	Benzene	7.9	ug/L	5.0	02/10/17 18:02	
SM 2540C	Total Dissolved Solids	1100	mg/L	10.0	02/10/17 07:07	
EPA 410.4	Chemical Oxygen Demand	53.9	mg/L	10.0	02/16/17 11:01	
EPA 365.1	Phosphorus	0.14	mg/L	0.050	02/16/17 13:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541002	**PZ-110-SS**					
SM 4500-NH3 G	Nitrogen, Ammonia	0.29	mg/L	0.10	02/21/17 16:07	
SM 5310C	Total Organic Carbon	18.6	mg/L	1.0	02/17/17 18:44	
50164541003	**PZ-111-SD**					
	Field pH	7.10	Std. Units		02/07/17 10:47	
	Field Temperature	18.0	deg C		02/07/17 10:47	
	Field Specific Conductance	833	umhos/cm		02/07/17 10:47	
	Field Oxidation Potential	-24	mV		02/07/17 10:47	
	Oxygen, Dissolved	1.03	mg/L		02/07/17 10:47	
	Field Turbidity	0.65	NTU		02/07/17 10:47	
	Total Well Depth	197.16	feet		02/07/17 10:47	
	Elevation Water Level	430.38	ft/msl		02/07/17 10:47	
	Collar Elevation	466.46	ft/msl		02/07/17 10:47	
	Depth to Water	36.08	feet		02/07/17 10:47	
EPA 9056	Chloride	11.1	mg/L	0.25	02/15/17 04:30	
EPA 9056	Fluoride	1.9	mg/L	0.10	02/15/17 04:30	
EPA 9056	Sulfate	44.1	mg/L	2.5	02/15/17 04:47	
EPA 6010	Barium	106	ug/L	10.0	02/15/17 08:49	
EPA 6010	Calcium	90200	ug/L	500	02/15/17 08:49	
EPA 6010	Iron	1540	ug/L	50.0	02/15/17 08:49	
EPA 6010	Magnesium	52000	ug/L	500	02/15/17 08:49	
EPA 6010	Manganese	9.7	ug/L	5.0	02/15/17 08:49	
EPA 6010	Sodium	18200	ug/L	1000	02/15/17 08:49	
EPA 6010	Total Hardness by 2340B	440000	ug/L	1000	02/15/17 08:49	
SM 2540C	Total Dissolved Solids	410	mg/L	10.0	02/10/17 07:08	
50164541004	**PZ-205-SS**					
	Field pH	6.99	Std. Units		02/07/17 11:53	
	Field Temperature	19.8	deg C		02/07/17 11:53	
	Field Specific Conductance	900	umhos/cm		02/07/17 11:53	
	Field Oxidation Potential	111	mV		02/07/17 11:53	
	Oxygen, Dissolved	1.42	mg/L		02/07/17 11:53	
	Field Turbidity	1.28	NTU		02/07/17 11:53	
	Total Well Depth	92.84	feet		02/07/17 11:53	
	Elevation Water Level	433.74	ft/msl		02/07/17 11:53	
	Collar Elevation	465.83	ft/msl		02/07/17 11:53	
	Depth to Water	32.04	feet		02/07/17 11:53	
EPA 9056	Chloride	32.3	mg/L	2.5	02/15/17 06:48	
EPA 9056	Fluoride	0.34	mg/L	0.10	02/15/17 06:31	
EPA 9056	Sulfate	52.1	mg/L	2.5	02/15/17 06:48	
EPA 6010	Barium	141	ug/L	10.0	02/15/17 08:51	
EPA 6010	Calcium	98600	ug/L	500	02/15/17 08:51	
EPA 6010	Iron	165	ug/L	50.0	02/15/17 08:51	
EPA 6010	Magnesium	55800	ug/L	500	02/15/17 08:51	
EPA 6010	Sodium	15600	ug/L	1000	02/15/17 08:51	
EPA 6010	Total Hardness by 2340B	476000	ug/L	1000	02/15/17 08:51	
SM 2540C	Total Dissolved Solids	491	mg/L	10.0	02/10/17 07:08	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541005	**PZ-100-SD**					
	Field pH	7.24	Std. Units		02/08/17 08:32	
	Field Temperature	15.3	deg C		02/08/17 08:32	
	Field Specific Conductance	629	umhos/cm		02/08/17 08:32	
	Field Oxidation Potential	-57	mV		02/08/17 08:32	
	Oxygen, Dissolved	0.36	mg/L		02/08/17 08:32	
	Field Turbidity	0.16	NTU		02/08/17 08:32	
	Total Well Depth	96.27	feet		02/08/17 08:32	
	Elevation Water Level	454.27	ft/msl		02/08/17 08:32	
	Collar Elevation	485.72	ft/msl		02/08/17 08:32	
	Depth to Water	31.45	feet		02/08/17 08:32	
EPA 9056	Chloride	1.5	mg/L	0.25	02/15/17 07:06	
EPA 9056	Fluoride	1.9	mg/L	0.10	02/15/17 07:06	
EPA 9056	Sulfate	9.8	mg/L	0.25	02/15/17 07:06	
EPA 6010	Barium	321	ug/L	10.0	02/15/17 08:53	
EPA 6010	Calcium	77500	ug/L	500	02/15/17 08:53	
EPA 6010	Iron	661	ug/L	50.0	02/15/17 08:53	
EPA 6010	Magnesium	35800	ug/L	500	02/15/17 08:53	
EPA 6010	Manganese	52.0	ug/L	5.0	02/15/17 08:53	
EPA 6010	Sodium	6820	ug/L	1000	02/15/17 08:53	
EPA 6010	Total Hardness by 2340B	341000	ug/L	1000	02/15/17 08:53	
SM 2540C	Total Dissolved Solids	316	mg/L	10.0	02/11/17 11:55	
SM 4500-NH3 G	Nitrogen, Ammonia	0.30	mg/L	0.10	02/23/17 16:50	
50164541007	**PZ-106-SS**					
	Field pH	7.02	Std. Units		02/08/17 10:55	
	Field Temperature	21.5	deg C		02/08/17 10:55	
	Field Specific Conductance	985	umhos/cm		02/08/17 10:55	
	Field Oxidation Potential	-86	mV		02/08/17 10:55	
	Oxygen, Dissolved	0.14	mg/L		02/08/17 10:55	
	Field Turbidity	0.00	NTU		02/08/17 10:55	
	Total Well Depth	161.40	feet		02/08/17 10:55	
	Elevation Water Level	448.77	ft/msl		02/08/17 10:55	
	Collar Elevation	462.71	ft/msl		02/08/17 10:55	
	Depth to Water	13.94	feet		02/08/17 10:55	
EPA 9056	Chloride	41.0	mg/L	2.5	02/15/17 08:15	
EPA 9056	Fluoride	1.7	mg/L	0.10	02/15/17 07:57	
EPA 9056	Sulfate	46.2	mg/L	2.5	02/15/17 08:15	
EPA 6010	Barium	180	ug/L	10.0	02/15/17 08:55	
EPA 6010	Calcium	104000	ug/L	500	02/15/17 08:55	
EPA 6010	Iron	2480	ug/L	50.0	02/15/17 08:55	
EPA 6010	Magnesium	51000	ug/L	500	02/15/17 08:55	
EPA 6010	Manganese	16.4	ug/L	5.0	02/15/17 08:55	
EPA 6010	Sodium	26600	ug/L	1000	02/15/17 08:55	
EPA 6010	Total Hardness by 2340B	471000	ug/L	1000	02/15/17 08:55	
EPA 6020	Arsenic	5.7	ug/L	5.0	02/14/17 15:05	
SM 2540C	Total Dissolved Solids	529	mg/L	10.0	02/11/17 11:55	
EPA 410.4	Chemical Oxygen Demand	15.1	mg/L	10.0	02/16/17 11:01	
SM 4500-NH3 G	Nitrogen, Ammonia	0.18	mg/L	0.10	02/22/17 14:55	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541007	**PZ-106-SS**					
SM 5310C	Total Organic Carbon	5.5	mg/L	1.0	02/17/17 20:48	
50164541008	**PZ-106-SD**					
	Field pH	6.92	Std. Units		02/08/17 12:05	
	Field Temperature	22.0	deg C		02/08/17 12:05	
	Field Specific Conductance	1848	umhos/cm		02/08/17 12:05	
	Field Oxidation Potential	-133	mV		02/08/17 12:05	
	Oxygen, Dissolved	0.10	mg/L		02/08/17 12:05	
	Field Turbidity	0.67	NTU		02/08/17 12:05	
	Total Well Depth	196.47	feet		02/08/17 12:05	
	Elevation Water Level	448.59	ft/msl		02/08/17 12:05	
	Collar Elevation	463.36	ft/msl		02/08/17 12:05	
	Depth to Water	14.77	feet		02/08/17 12:05	
EPA 9056	Chloride	163	mg/L	25.0	02/15/17 09:41	
EPA 9056	Fluoride	1.2	mg/L	0.10	02/15/17 09:07	
EPA 9056	Sulfate	47.8	mg/L	2.5	02/15/17 09:24	
EPA 6010	Barium	421	ug/L	10.0	02/15/17 08:58	
EPA 6010	Boron	781	ug/L	100	02/15/17 08:58	
EPA 6010	Calcium	101000	ug/L	500	02/15/17 08:58	
EPA 6010	Iron	1570	ug/L	50.0	02/15/17 08:58	
EPA 6010	Magnesium	65300	ug/L	500	02/15/17 08:58	
EPA 6010	Manganese	22.3	ug/L	5.0	02/15/17 08:58	
EPA 6010	Sodium	141000	ug/L	1000	02/15/17 08:58	
EPA 6010	Total Hardness by 2340B	521000	ug/L	1000	02/15/17 08:58	
SM 2540C	Total Dissolved Solids	895	mg/L	10.0	02/11/17 11:56	
EPA 410.4	Chemical Oxygen Demand	87.1	mg/L	10.0	02/16/17 11:01	
EPA 365.1	Phosphorus	0.055	mg/L	0.050	02/16/17 13:34	
SM 4500-NH3 G	Nitrogen, Ammonia	35.6	mg/L	0.50	02/23/17 16:52	
SM 5310C	Total Organic Carbon	26.6	mg/L	2.0	02/22/17 18:33	
50164541010	**PZ-100-SS**					
	Field pH	7.20	Std. Units		02/08/17 09:22	
	Field Temperature	14.9	deg C		02/08/17 09:22	
	Field Specific Conductance	824	umhos/cm		02/08/17 09:22	
	Field Oxidation Potential	114	mV		02/08/17 09:22	
	Oxygen, Dissolved	3.25	mg/L		02/08/17 09:22	
	Field Turbidity	0.16	NTU		02/08/17 09:22	
	Total Well Depth	89.34	feet		02/08/17 09:22	
	Elevation Water Level	455.88	ft/msl		02/08/17 09:22	
	Collar Elevation	485.75	ft/msl		02/08/17 09:22	
	Depth to Water	29.87	feet		02/08/17 09:22	
EPA 9056	Chloride	6.1	mg/L	0.25	02/14/17 09:34	
EPA 9056	Fluoride	0.48	mg/L	0.10	02/14/17 09:34	
EPA 9056	Sulfate	35.0	mg/L	2.5	02/14/17 09:51	
EPA 6010	Barium	63.7	ug/L	10.0	02/17/17 09:38	
EPA 6010	Boron	109	ug/L	100	02/17/17 09:38	
EPA 6010	Calcium	89000	ug/L	500	02/17/17 09:38	
EPA 6010	Magnesium	50500	ug/L	500	02/17/17 09:38	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541010	**PZ-100-SS**					
EPA 6010	Nickel	10.2	ug/L	10.0	02/17/17 09:38	
EPA 6010	Sodium	10300	ug/L	1000	02/17/17 09:38	
EPA 6010	Total Hardness by 2340B	430000	ug/L	1000	02/17/17 09:38	
SM 2540C	Total Dissolved Solids	419	mg/L	10.0	02/13/17 10:15	
50164541011	**PZ-105-SS**					
	Field pH	7.11	Std. Units		02/09/17 08:46	
	Field Temperature	17.2	deg C		02/09/17 08:46	
	Field Specific Conductance	1087	umhos/cm		02/09/17 08:46	
	Field Oxidation Potential	-63	mV		02/09/17 08:46	
	Oxygen, Dissolved	1.09	mg/L		02/09/17 08:46	
	Field Turbidity	1.01	NTU		02/09/17 08:46	
	Total Well Depth	144.63	feet		02/09/17 08:46	
	Elevation Water Level	459.30	ft/msl		02/09/17 08:46	
	Collar Elevation	483.51	ft/msl		02/09/17 08:46	
	Depth to Water	24.21	feet		02/09/17 08:46	
EPA 9056	Chloride	66.3	mg/L	2.5	02/14/17 10:26	
EPA 9056	Fluoride	0.50	mg/L	0.10	02/14/17 10:09	
EPA 9056	Sulfate	47.6	mg/L	2.5	02/14/17 10:26	
EPA 6010	Barium	182	ug/L	10.0	02/17/17 09:40	
EPA 6010	Calcium	106000	ug/L	500	02/17/17 09:40	
EPA 6010	Iron	4510	ug/L	50.0	02/17/17 09:40	
EPA 6010	Magnesium	56800	ug/L	500	02/17/17 09:40	
EPA 6010	Manganese	107	ug/L	5.0	02/17/17 09:40	
EPA 6010	Sodium	41500	ug/L	1000	02/17/17 09:40	
EPA 6010	Total Hardness by 2340B	499000	ug/L	1000	02/17/17 09:40	
SM 2540C	Total Dissolved Solids	583	mg/L	10.0	02/15/17 11:32	
SM 5310C	Total Organic Carbon	2.7	mg/L	1.0	02/21/17 03:54	
50164541012	**PZ-104-SS**					
	Field pH	6.71	Std. Units		02/09/17 11:00	
	Field Temperature	24.6	deg C		02/09/17 11:00	
	Field Specific Conductance	798	umhos/cm		02/09/17 11:00	
	Field Oxidation Potential	-238	mV		02/09/17 11:00	
	Oxygen, Dissolved	0.19	mg/L		02/09/17 11:00	
	Field Turbidity	0.27	NTU		02/09/17 11:00	
	Total Well Depth	140.54	feet		02/09/17 11:00	
	Elevation Water Level	463.15	ft/msl		02/09/17 11:00	
	Collar Elevation	483.45	ft/msl		02/09/17 11:00	
	Depth to Water	20.30	feet		02/09/17 11:00	
EPA 9056	Chloride	4.0	mg/L	0.25	02/14/17 10:43	
EPA 9056	Fluoride	0.67	mg/L	0.10	02/14/17 10:43	
EPA 9056	Sulfate	14.7	mg/L	0.25	02/14/17 10:43	
EPA 6010	Barium	100	ug/L	10.0	02/17/17 09:43	
EPA 6010	Boron	134	ug/L	100	02/17/17 09:43	
EPA 6010	Calcium	82600	ug/L	500	02/17/17 09:43	
EPA 6010	Iron	178	ug/L	50.0	02/17/17 09:43	
EPA 6010	Magnesium	49300	ug/L	500	02/17/17 09:43	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541012	**PZ-104-SS**					
EPA 6010	Manganese	23.4	ug/L	5.0	02/17/17 09:43	
EPA 6010	Sodium	14400	ug/L	1000	02/17/17 09:43	
EPA 6010	Total Hardness by 2340B	410000	ug/L	1000	02/17/17 09:43	
EPA 8260	Benzene	302	ug/L	50.0	02/15/17 12:06	
EPA 8260	1,4-Dichlorobenzene	6.3	ug/L	5.0	02/14/17 18:25	
EPA 8260	Toluene	31.7	ug/L	5.0	02/14/17 18:25	
EPA 8260	Xylene (Total)	12.7	ug/L	5.0	02/14/17 18:25	
SM 2540C	Total Dissolved Solids	406	mg/L	10.0	02/15/17 11:33	
EPA 410.4	Chemical Oxygen Demand	24.2	mg/L	10.0	02/16/17 11:01	
SM 5310C	Total Organic Carbon	2.4	mg/L	1.0	02/21/17 05:11	
50164541013	**PZ-104-SD**					
	Field pH	6.85	Std. Units		02/09/17 11:56	
	Field Temperature	26.0	deg C		02/09/17 11:56	
	Field Specific Conductance	2030	umhos/cm		02/09/17 11:56	
	Field Oxidation Potential	-210	mV		02/09/17 11:56	
	Oxygen, Dissolved	0.13	mg/L		02/09/17 11:56	
	Field Turbidity	0.71	NTU		02/09/17 11:56	
	Total Well Depth	120.61	feet		02/09/17 11:56	
	Elevation Water Level	461.51	ft/msl		02/09/17 11:56	
	Collar Elevation	483.51	ft/msl		02/09/17 11:56	
	Depth to Water	22.00	feet		02/09/17 11:56	
EPA 9056	Chloride	264	mg/L	25.0	02/14/17 12:56	
EPA 9056	Fluoride	0.76	mg/L	0.10	02/14/17 12:22	
EPA 9056	Sulfate	1.6	mg/L	0.25	02/14/17 12:22	
EPA 6010	Barium	609	ug/L	10.0	02/17/17 10:00	
EPA 6010	Boron	1190	ug/L	100	02/17/17 10:00	
EPA 6010	Calcium	110000	ug/L	500	02/17/17 10:00	
EPA 6010	Iron	14000	ug/L	50.0	02/17/17 10:00	
EPA 6010	Magnesium	67700	ug/L	500	02/17/17 10:00	
EPA 6010	Manganese	126	ug/L	5.0	02/17/17 10:00	
EPA 6010	Nickel	62.7	ug/L	10.0	02/17/17 10:00	
EPA 6010	Sodium	178000	ug/L	1000	02/17/17 10:00	
EPA 6010	Total Hardness by 2340B	553000	ug/L	1000	02/17/17 10:00	
EPA 6020	Arsenic	16.3	ug/L	5.0	02/14/17 20:43	
EPA 6020	Chromium	13.2	ug/L	5.0	02/14/17 20:43	
EPA 6020	Vanadium	13.3	ug/L	10.0	02/14/17 20:43	N2
EPA 8260	Benzene	433	ug/L	50.0	02/14/17 19:31	
EPA 8260	1,4-Dichlorobenzene	5.7	ug/L	5.0	02/14/17 18:58	
EPA 8260	Toluene	7.5	ug/L	5.0	02/14/17 18:58	
EPA 8260	Xylene (Total)	24.6	ug/L	5.0	02/14/17 18:58	
SM 2540C	Total Dissolved Solids	1080	mg/L	10.0	02/15/17 11:33	
EPA 410.4	Chemical Oxygen Demand	227	mg/L	20.0	02/16/17 11:01	
EPA 365.1	Phosphorus	0.14	mg/L	0.050	02/16/17 13:47	
SM 4500-NH3 G	Nitrogen, Ammonia	45.0	mg/L	0.50	02/22/17 16:14	
SM 5310C	Total Organic Carbon	74.5	mg/L	4.0	02/21/17 05:35	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541015	**PZ-201A-SS**					
	Field pH	7.04	Std. Units		02/17/17 11:25	
	Field Temperature	16.9	deg C		02/17/17 11:25	
	Field Specific Conductance	745	umhos/cm		02/17/17 11:25	
	Field Oxidation Potential	57	mV		02/17/17 11:25	
	Oxygen, Dissolved	2.25	mg/L		02/17/17 11:25	
	Field Turbidity	1.07	NTU		02/17/17 11:25	
	Total Well Depth	86.09	feet		02/17/17 11:25	
	Elevation Water Level	467.35	ft/msl		02/17/17 11:25	
	Collar Elevation	480.20	ft/msl		02/17/17 11:25	
	Depth to Water	12.85	feet		02/17/17 11:25	
EPA 9056	Chloride	3.7	mg/L	0.25	02/22/17 02:58	
EPA 9056	Fluoride	0.30	mg/L	0.10	02/22/17 02:58	
EPA 9056	Sulfate	60.4	mg/L	2.5	02/22/17 03:50	
EPA 6010	Barium	128	ug/L	10.0	02/27/17 21:30	
EPA 6010	Calcium	94900	ug/L	500	02/27/17 21:30	
EPA 6010	Magnesium	45600	ug/L	500	02/27/17 21:30	
EPA 6010	Manganese	8.8	ug/L	5.0	02/27/17 21:30	
EPA 6010	Sodium	12100	ug/L	1000	02/27/17 21:30	
EPA 6010	Total Hardness by 2340B	425000	ug/L	1000	02/27/17 21:30	
SM 2540C	Total Dissolved Solids	455	mg/L	10.0	02/22/17 09:22	
EPA 353.2	Nitrogen, NO2 plus NO3	0.33	mg/L	0.10	02/21/17 13:11	
50164541016	**PZ-115-SS**					
	Field pH	6.57	Std. Units		02/17/17 13:24	
	Field Temperature	16.5	deg C		02/17/17 13:24	
	Field Specific Conductance	2460	umhos/cm		02/17/17 13:24	
	Field Oxidation Potential	22	mV		02/17/17 13:24	
	Oxygen, Dissolved	0.48	mg/L		02/17/17 13:24	
	Field Turbidity	1.03	NTU		02/17/17 13:24	
	Total Well Depth	81.04	feet		02/17/17 13:24	
	Elevation Water Level	436.71	ft/msl		02/17/17 13:24	
	Collar Elevation	452.27	ft/msl		02/17/17 13:24	
	Depth to Water	15.56	feet		02/17/17 13:24	
EPA 9056	Chloride	463	mg/L	25.0	02/22/17 05:51	
EPA 9056	Fluoride	0.41	mg/L	0.10	02/22/17 05:16	
EPA 9056	Sulfate	3.2	mg/L	0.25	02/22/17 05:16	
EPA 6010	Barium	505	ug/L	10.0	02/27/17 21:33	
EPA 6010	Boron	467	ug/L	100	02/27/17 21:33	
EPA 6010	Calcium	226000	ug/L	1000	02/27/17 21:46	
EPA 6010	Cobalt	29.6	ug/L	5.0	02/27/17 21:33	
EPA 6010	Iron	3100	ug/L	50.0	02/27/17 21:33	
EPA 6010	Magnesium	104000	ug/L	500	02/27/17 21:33	
EPA 6010	Manganese	76.5	ug/L	5.0	02/27/17 21:33	
EPA 6010	Nickel	74.5	ug/L	10.0	02/27/17 21:33	
EPA 6010	Sodium	176000	ug/L	1000	02/27/17 21:33	
EPA 6010	Total Hardness by 2340B	993000	ug/L	2000	02/27/17 21:46	
EPA 6020	Arsenic	6.2	ug/L	5.0	02/22/17 16:31	
SM 2540C	Total Dissolved Solids	1520	mg/L	10.0	02/22/17 09:22	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541016	**PZ-115-SS**					
EPA 410.4	Chemical Oxygen Demand	44.4	mg/L	10.0	02/23/17 13:20	
EPA 365.1	Phosphorus	0.17	mg/L	0.050	03/01/17 15:42	
SM 4500-NH3 G	Nitrogen, Ammonia	1.2	mg/L	0.10	02/24/17 15:28	
SM 5310C	Total Organic Carbon	10.4	mg/L	4.0	03/01/17 12:20	
50164541017	**PZ-115-SS DUP**					
EPA 9056	Chloride	420	mg/L	25.0	02/22/17 06:43	
EPA 9056	Fluoride	0.41	mg/L	0.10	02/22/17 06:08	
EPA 9056	Sulfate	3.3	mg/L	0.25	02/22/17 06:08	
EPA 6010	Barium	510	ug/L	10.0	02/27/17 21:35	
EPA 6010	Boron	476	ug/L	100	02/27/17 21:35	
EPA 6010	Calcium	226000	ug/L	1000	02/27/17 21:53	
EPA 6010	Cobalt	30.3	ug/L	5.0	02/27/17 21:35	
EPA 6010	Iron	3150	ug/L	50.0	02/27/17 21:35	
EPA 6010	Magnesium	105000	ug/L	500	02/27/17 21:35	
EPA 6010	Manganese	77.4	ug/L	5.0	02/27/17 21:35	
EPA 6010	Nickel	75.8	ug/L	10.0	02/27/17 21:35	
EPA 6010	Sodium	179000	ug/L	1000	02/27/17 21:35	
EPA 6010	Total Hardness by 2340B	997000	ug/L	2000	02/27/17 21:53	
EPA 6020	Arsenic	6.0	ug/L	5.0	02/22/17 18:36	
SM 2540C	Total Dissolved Solids	1500	mg/L	10.0	02/22/17 09:22	
EPA 410.4	Chemical Oxygen Demand	40.4	mg/L	10.0	02/23/17 13:20	
EPA 365.1	Phosphorus	0.22	mg/L	0.050	03/01/17 15:42	
SM 4500-NH3 G	Nitrogen, Ammonia	1.2	mg/L	0.10	02/24/17 15:29	
SM 5310C	Total Organic Carbon	10.6	mg/L	4.0	03/01/17 13:08	
50164541018	**PZ-114-AS**					
	Field pH	6.55	Std. Units		02/17/17 13:57	
	Field Temperature	17.5	deg C		02/17/17 13:57	
	Field Specific Conductance	2260	umhos/cm		02/17/17 13:57	
	Field Oxidation Potential	-77	mV		02/17/17 13:57	
	Oxygen, Dissolved	0.65	mg/L		02/17/17 13:57	
	Field Turbidity	3.36	NTU		02/17/17 13:57	
	Total Well Depth	26.29	feet		02/17/17 13:57	
	Elevation Water Level	430.14	ft/msl		02/17/17 13:57	
	Collar Elevation	451.26	ft/msl		02/17/17 13:57	
	Depth to Water	21.12	feet		02/17/17 13:57	
EPA 9056	Chloride	400	mg/L	25.0	02/22/17 07:34	
EPA 9056	Fluoride	0.14	mg/L	0.10	02/22/17 07:00	
EPA 9056	Sulfate	1.0	mg/L	0.25	02/22/17 07:00	
EPA 6010	Barium	991	ug/L	10.0	02/27/17 22:00	
EPA 6010	Boron	203	ug/L	100	02/27/17 22:00	
EPA 6010	Calcium	202000	ug/L	1000	02/27/17 22:12	
EPA 6010	Iron	66400	ug/L	50.0	02/27/17 22:00	
EPA 6010	Magnesium	49500	ug/L	500	02/27/17 22:00	
EPA 6010	Manganese	4400	ug/L	5.0	02/27/17 22:00	
EPA 6010	Sodium	169000	ug/L	1000	02/27/17 22:00	
EPA 6010	Total Hardness by 2340B	709000	ug/L	2000	02/27/17 22:12	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50164541018	PZ-114-AS					
EPA 6020	Arsenic	114	ug/L	5.0	02/22/17 18:41	
EPA 8260	Chlorobenzene	34.9	ug/L	5.0	02/22/17 19:23	
EPA 8260	1,4-Dichlorobenzene	5.6	ug/L	5.0	02/22/17 19:23	
SM 2540C	Total Dissolved Solids	1350	mg/L	20.0	02/22/17 09:23	
EPA 410.4	Chemical Oxygen Demand	39.2	mg/L	10.0	02/23/17 13:20	
EPA 365.1	Phosphorus	1.6	mg/L	0.25	03/01/17 16:02	
SM 4500-NH3 G	Nitrogen, Ammonia	6.6	mg/L	0.10	03/03/17 12:13	
SM 5310C	Total Organic Carbon	7.6	mg/L	4.0	02/28/17 07:24	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-109-SS Lab ID: 50164541001 Collected: 02/07/17 08:36 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.00	Std. Units		1		02/07/17 08:36		
Field Temperature	20.3	deg C		1		02/07/17 08:36		
Field Specific Conductance	810	umhos/cm		1		02/07/17 08:36		
Field Oxidation Potential	137	mV		1		02/07/17 08:36		
Oxygen, Dissolved	0.41	mg/L		1		02/07/17 08:36	7782-44-7	
Field Turbidity	0.00	NTU		1		02/07/17 08:36		
Total Well Depth	130.92	feet		1		02/07/17 08:36		
Elevation Water Level	438.27	ft/msl		1		02/07/17 08:36		
Collar Elevation	460.19	ft/msl		1		02/07/17 08:36		
Depth to Water	21.92	feet		1		02/07/17 08:36		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	3.5	mg/L	0.25	1		02/15/17 02:46	16887-00-6	
Fluoride	2.1	mg/L	0.10	1		02/15/17 02:46	16984-48-8	
Sulfate	21.3	mg/L	2.5	10		02/15/17 03:38	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	59.5	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:30	7440-39-3	
Boron	184	ug/L	100	1	02/14/17 06:49	02/15/17 08:30	7440-42-8	
Calcium	89000	ug/L	500	1	02/14/17 06:49	02/15/17 08:30	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:30	7440-48-4	
Iron	ND	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:30	7439-89-6	
Magnesium	51600	ug/L	500	1	02/14/17 06:49	02/15/17 08:30	7439-95-4	
Manganese	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:30	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:30	7440-02-0	
Sodium	10100	ug/L	1000	1	02/14/17 06:49	02/15/17 08:30	7440-23-5	
Total Hardness by 2340B	435000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:30		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:30	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:37	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 14:37	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:37	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:37	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 14:37	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:10	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-109-SS Lab ID: 50164541001 Collected: 02/07/17 08:36 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 17:28	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 17:28	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 17:28	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 17:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 17:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 17:28	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 17:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 17:28	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 17:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 17:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 17:28	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 17:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 17:28	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 17:28	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 17:28	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 17:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 17:28	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 17:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 17:28	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 17:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 17:28	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 17:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 17:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 17:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 17:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 17:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 17:28	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 17:28	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 17:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 17:28	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 17:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 17:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 17:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 17:28	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 17:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 17:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 17:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 17:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 17:28	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 17:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 17:28	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 17:28	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-109-SS Lab ID: 50164541001 Collected: 02/07/17 08:36 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	87	%.	84-118	1		02/10/17 17:28	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/10/17 17:28	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/10/17 17:28	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	393	mg/L	10.0	1		02/10/17 07:06		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:04		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:29	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/21/17 16:05	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		02/11/17 18:36	7440-44-0	

Sample: PZ-110-SS Lab ID: 50164541002 Collected: 02/07/17 09:33 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.69	Std. Units		1		02/07/17 09:33		
Field Temperature	15.6	deg C		1		02/07/17 09:33		
Field Specific Conductance	1930	umhos/cm		1		02/07/17 09:33		
Field Oxidation Potential	-82	mV		1		02/07/17 09:33		
Oxygen, Dissolved	0.28	mg/L		1		02/07/17 09:33	7782-44-7	
Field Turbidity	1.58	NTU		1		02/07/17 09:33		
Total Well Depth	107.19	feet		1		02/07/17 09:33		
Elevation Water Level	430.04	ft/msl		1		02/07/17 09:33		
Collar Elevation	461.15	ft/msl		1		02/07/17 09:33		
Depth to Water	31.11	feet		1		02/07/17 09:33		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	187	mg/L	25.0	100		02/15/17 06:14	16887-00-6	
Fluoride	0.27	mg/L	0.10	1		02/15/17 05:39	16984-48-8	
Sulfate	55.3	mg/L	2.5	10		02/15/17 05:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-110-SS Lab ID: 50164541002 Collected: 02/07/17 09:33 Received: 02/09/17 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							
Barium	266	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:41	7440-39-3	
Boron	222	ug/L	100	1	02/14/17 06:49	02/15/17 08:41	7440-42-8	
Calcium	224000	ug/L	5000	10	02/14/17 06:49	02/15/17 12:12	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:41	7440-48-4	
Iron	5780	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:41	7439-89-6	
Magnesium	81800	ug/L	500	1	02/14/17 06:49	02/15/17 08:41	7439-95-4	
Manganese	154	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:41	7439-96-5	
Nickel	14.0	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:41	7440-02-0	
Sodium	78800	ug/L	1000	1	02/14/17 06:49	02/15/17 08:41	7440-23-5	
Total Hardness by 2340B	895000	ug/L	10000	10	02/14/17 06:49	02/15/17 12:12		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:41	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:42	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 14:42	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:42	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:42	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 14:42	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:12	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 18:02	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 18:02	107-13-1	
Benzene	7.9	ug/L	5.0	1		02/10/17 18:02	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 18:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 18:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 18:02	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 18:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 18:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 18:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 18:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 18:02	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 18:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 18:02	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 18:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 18:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 18:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 18:02	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-110-SS Lab ID: 50164541002 Collected: 02/07/17 09:33 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		02/10/17 18:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 18:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 18:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 18:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 18:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 18:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 18:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 18:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 18:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 18:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 18:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 18:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 18:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 18:02	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 18:02	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 18:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 18:02	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 18:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 18:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 18:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 18:02	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 18:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 18:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 18:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 18:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 18:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 18:02	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 18:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 18:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 18:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	85	%.	84-113	1		02/10/17 18:02	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/10/17 18:02	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/10/17 18:02	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1100	mg/L	10.0	1		02/10/17 07:07		
410.4 COD	Analytical Method: EPA 410.4	Preparation Method: EPA 410.4						
Chemical Oxygen Demand	53.9	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:09		
365.1 Total Phosphorus	Analytical Method: EPA 365.1	Preparation Method: EPA 365.1						
Phosphorus	0.14	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:30	7723-14-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-110-SS Lab ID: 50164541002 Collected: 02/07/17 09:33 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.29	mg/L	0.10	1		02/21/17 16:07	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	18.6	mg/L	1.0	1		02/17/17 18:44	7440-44-0	

Sample: PZ-111-SD Lab ID: 50164541003 Collected: 02/07/17 10:47 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.10	Std. Units		1		02/07/17 10:47		
Field Temperature	18.0	deg C		1		02/07/17 10:47		
Field Specific Conductance	833	umhos/cm		1		02/07/17 10:47		
Field Oxidation Potential	-24	mV		1		02/07/17 10:47		
Oxygen, Dissolved	1.03	mg/L		1		02/07/17 10:47	7782-44-7	
Field Turbidity	0.65	NTU		1		02/07/17 10:47		
Total Well Depth	197.16	feet		1		02/07/17 10:47		
Elevation Water Level	430.36	ft/msl		1		02/07/17 10:47		
Collar Elevation	466.45	ft/msl		1		02/07/17 10:47		
Depth to Water	36.08	feet		1		02/07/17 10:47		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	11.1	mg/L	0.25	1		02/15/17 04:30	16887-00-6	
Fluoride	1.9	mg/L	0.10	1		02/15/17 04:30	16984-48-8	
Sulfate	44.1	mg/L	2.5	10		02/15/17 04:47	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	106	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:49	7440-39-3	
Boron	ND	ug/L	100	1	02/14/17 06:49	02/15/17 08:49	7440-42-8	
Calcium	90200	ug/L	500	1	02/14/17 06:49	02/15/17 08:49	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:49	7440-48-4	
Iron	1540	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:49	7439-89-6	
Magnesium	52000	ug/L	500	1	02/14/17 06:49	02/15/17 08:49	7439-95-4	
Manganese	9.7	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:49	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:49	7440-02-0	
Sodium	18200	ug/L	1000	1	02/14/17 06:49	02/15/17 08:49	7440-23-5	
Total Hardness by 2340B	440000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:49		
[illegible]	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:49	7440-66-6	
6020 **MET ICPMS**	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:47	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 14:47	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7440-47-3	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-111-SD Lab ID: 50164541003 Collected: 02/07/17 10:47 Received: 02/09/17 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							
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:47	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:47	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 14:47	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:14	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 11:55	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 11:55	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 11:55	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 11:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 11:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 11:55	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 11:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 11:55	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 11:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 11:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 11:55	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 11:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 11:55	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 11:55	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 11:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 11:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 11:55	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 11:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 11:55	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 11:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 11:55	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 11:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 11:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 11:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 11:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 11:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 11:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 11:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 11:55	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 11:55	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 11:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 11:55	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 11:55	100-42-5	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-111-SD Lab ID: 50164541003 Collected: 02/07/17 10:47 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 **MSV**	Analytical Method: EPA 8260							
1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 11:55	630-20-6	
1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 11:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 11:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 11:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 11:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 11:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 11:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 11:55	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 11:55	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 11:55	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 11:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	88	%.	84-118	1		02/10/17 11:55	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-116	1		02/10/17 11:55	460-00-4	
Toluene-d8 (S)	82	%.	86-110	1		02/10/17 11:55	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	410	mg/L	10.0	1		02/10/17 07:08		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:11		
365.1 **Total Phosphorus**	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:31	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/21/17 16:08	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		02/17/17 19:15	7440-44-0	

Sample: PZ-205-SS Lab ID: 50164541004 Collected: 02/07/17 11:53 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.99	Std. Units		1		02/07/17 11:53		
Field Temperature	19.8	deg C		1		02/07/17 11:53		
Field Specific Conductance	900	umhos/cm		1		02/07/17 11:53		
Field Oxidation Potential	111	mV		1		02/07/17 11:53		
Oxygen, Dissolved	1.42	mg/L		1		02/07/17 11:53	7782-44-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-205-SS Lab ID: 50164541004 Collected: 02/07/17 11:53 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Turbidity	1.23	NTU		1		02/07/17 11:53		
Total Well Depth	92.84	feet		1		02/07/17 11:53		
Elevation Water Level	433.74	ft/msl		1		02/07/17 11:53		
Collar Elevation	465.83	ft/msl		1		02/07/17 11:53		
Depth to Water	32.04	feet		1		02/07/17 11:53		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	32.3	mg/L	2.5	10		02/15/17 06:48	16887-00-6	
Fluoride	0.34	mg/L	0.10	1		02/15/17 06:31	16984-48-8	
Sulfate	52.1	mg/L	2.5	10		02/15/17 06:48	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	141	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:51	7440-39-3	
Boron	ND	ug/L	100	1	02/14/17 06:49	02/15/17 08:51	7440-42-8	
Calcium	98600	ug/L	500	1	02/14/17 06:49	02/15/17 08:51	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:51	7440-48-4	
Iron	165	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:51	7439-89-6	
Magnesium	55800	ug/L	500	1	02/14/17 06:49	02/15/17 08:51	7439-95-4	
Manganese	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:51	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:51	7440-02-0	
Sodium	15600	ug/L	1000	1	02/14/17 06:49	02/15/17 08:51	7440-23-5	
Total Hardness by 2340B	476000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:51		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:51	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:56	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 14:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 14:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 14:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 14:56	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:16	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 12:29	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 12:29	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 12:29	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 12:29	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 12:29	75-27-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-205-SS Lab ID: 50164541004 Collected: 02/07/17 11:53 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromoform	ND	ug/L	5.0	1		02/10/17 12:29	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 12:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 12:29	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 12:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 12:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 12:29	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 12:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 12:29	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 12:29	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 12:29	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 12:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 12:29	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 12:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 12:29	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 12:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 12:29	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 12:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 12:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 12:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 12:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 12:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 12:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 12:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 12:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 12:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 12:29	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 12:29	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 12:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 12:29	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 12:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 12:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 12:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 12:29	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 12:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 12:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 12:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 12:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 12:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 12:29	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 12:29	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 12:29	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 12:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		02/10/17 12:29	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	79-116	1		02/10/17 12:29	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/10/17 12:29	2037-26-5	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-205-SS Lab ID: 50164541004 Collected: 02/07/17 11:53 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	491	mg/L	10.0	1		02/10/17 07:08		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:13		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:33	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/21/17 16:09	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		02/17/17 19:46	7440-44-0	

Sample: PZ-100-SD Lab ID: 50164541005 Collected: 02/08/17 08:32 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.24	Std. Units		1		02/08/17 08:32		
Field Temperature	15.3	deg C		1		02/08/17 08:32		
Field Specific Conductance	623	umhos/cm		1		02/08/17 08:32		
Field Oxidation Potential	-57	mV		1		02/08/17 08:32		
Oxygen, Dissolved	0.36	mg/L		1		02/08/17 08:32	7782-44-7	
Field Turbidity	0.16	NTU		1		02/08/17 08:32		
Total Well Depth	96.27	feet		1		02/08/17 08:32		
Elevation Water Level	454.27	ft/msl		1		02/08/17 08:32		
Collar Elevation	485.72	ft/msl		1		02/08/17 08:32		
Depth to Water	31.45	feet		1		02/08/17 08:32		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	1.5	mg/L	0.25	1		02/15/17 07:06	16887-00-6	
Fluoride	1.9	mg/L	0.10	1		02/15/17 07:06	16984-48-8	
Sulfate	9.8	mg/L	0.25	1		02/15/17 07:06	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	321	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:53	7440-39-3	
Boron	ND	ug/L	100	1	02/14/17 06:49	02/15/17 08:53	7440-42-8	
Calcium	77500	ug/L	500	1	02/14/17 06:49	02/15/17 08:53	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:53	7440-48-4	
Iron	661	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:53	7439-89-6	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SD Lab ID: 50164541005 Collected: 02/08/17 08:32 Received: 02/09/17 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							
Magnesium	35800	ug/L	500	1	02/14/17 06:49	02/15/17 08:53	7439-95-4	
Manganese	52.6	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:53	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:53	7440-02-0	
Sodium	6820	ug/L	1000	1	02/14/17 06:49	02/15/17 08:53	7440-23-5	
Total Hardness by 2340B	341000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:53		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:53	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:01	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 15:01	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:01	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:01	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 15:01	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:18	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 13:02	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 13:02	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 13:02	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 13:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 13:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 13:02	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 13:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 13:02	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 13:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 13:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 13:02	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 13:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 13:02	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 13:02	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 13:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 13:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 13:02	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 13:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 13:02	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 13:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 13:02	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 13:02	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SD Lab ID: 50164541005 Collected: 02/08/17 08:32 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 13:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 13:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 13:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 13:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 13:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 13:02	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 13:02	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 13:02	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 13:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 13:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 13:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 13:02	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 13:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 13:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 13:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 13:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 13:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 13:02	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 13:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 13:02	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 13:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	88	%.	84-118	1		02/10/17 13:02	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/10/17 13:02	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/10/17 13:02	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	316	mg/L	10.0	1		02/11/17 11:55		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:14		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:33	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.30	mg/L	0.10	1		02/23/17 16:50	7664-41-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SD Lab ID: 50164541005 Collected: 02/08/17 08:32 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		02/17/17 20:17	7440-44-0	

Sample: PZ-106-SS Lab ID: 50164541007 Collected: 02/08/17 10:55 Received: 02/09/17 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		02/08/17 10:55		
Field Temperature	21.5	deg C		1		02/08/17 10:55		
Field Specific Conductance	985	umhos/cm		1		02/08/17 10:55		
Field Oxidation Potential	-86	mV		1		02/08/17 10:55		
Oxygen, Dissolved	0.14	mg/L		1		02/08/17 10:55	7782-44-7	
Field Turbidity	0.00	NTU		1		02/08/17 10:55		
Well Depth	161.40	feet		1		02/08/17 10:55		
Elevation Water Level	448.77	ft/msl		1		02/08/17 10:55		
Collar Elevation	462.71	ft/msl		1		02/08/17 10:55		
Depth to Water	13.94	feet		1		02/08/17 10:55		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	41.0	mg/L	2.5	10		02/15/17 08:15	16887-00-6	
Fluoride	1.7	mg/L	0.10	1		02/15/17 07:57	16984-48-8	
Sulfate	46.2	mg/L	2.5	10		02/15/17 08:15	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	180	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:55	7440-39-3	
Boron	ND	ug/L	100	1	02/14/17 06:49	02/15/17 08:55	7440-42-8	
Calcium	104000	ug/L	500	1	02/14/17 06:49	02/15/17 08:55	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:55	7440-48-4	
Iron	2430	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:55	7439-89-6	
Magnesium	51000	ug/L	500	1	02/14/17 06:49	02/15/17 08:55	7439-95-4	
Manganese	16.4	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:55	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:55	7440-02-0	
Sodium	26600	ug/L	1000	1	02/14/17 06:49	02/15/17 08:55	7440-23-5	
Total Hardness by 2340B	471000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:55		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:55	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7440-36-0	
Arsenic	5.7	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 15:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7782-49-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-106-SS Lab ID: 50164541007 Collected: 02/08/17 10:55 Received: 02/09/17 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							
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:05	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 15:05	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:20	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 13:35	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 13:35	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 13:35	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 13:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 13:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 13:35	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 13:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 13:35	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 13:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 13:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 13:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 13:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 13:35	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 13:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 13:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 13:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 13:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 13:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 13:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 13:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 13:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 13:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 13:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 13:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 13:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 13:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 13:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 13:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 13:35	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 13:35	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 13:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 13:35	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 13:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 13:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 13:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 13:35	127-18-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-106-SS Lab ID: 50164541007 Collected: 02/08/17 10:55 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Toluene	ND	ug/L	5.0	1		02/10/17 13:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 13:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 13:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 13:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 13:35	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 13:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 13:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 13:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	86	%.	84-118	1		02/10/17 13:35	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-116	1		02/10/17 13:35	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/10/17 13:35	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	529	mg/L	10.0	1		02/11/17 11:55		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	15.1	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:21		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:34	7723-14-0	
4500 **Ammonia Water**	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.18	mg/L	0.10	1		02/22/17 14:55	7664-41-7	
5310C **TOC**	Analytical Method: SM 5310C							
Total Organic Carbon	5.5	mg/L	1.0	1		02/17/17 20:48	7440-44-0	

Sample: PZ-106-SD Lab ID: 50164541008 Collected: 02/08/17 12:05 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.92	Std. Units		1		02/08/17 12:05		
Field Temperature	22.0	deg C		1		02/08/17 12:05		
Field Specific Conductance	1848	umhos/cm		1		02/08/17 12:05		
Field Oxidation Potential	-133	mV		1		02/08/17 12:05		
Oxygen, Dissolved	0.10	mg/L		1		02/08/17 12:05	7782-44-7	
Field Turbidity	0.67	NTU		1		02/08/17 12:05		
Total Well Depth	196.47	feet		1		02/08/17 12:05		
Elevation Water Level	448.55	ft/msl		1		02/08/17 12:05		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-106-SD Lab ID: 50164541008 Collected: 02/08/17 12:05 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collar Elevation	463.36	ft/msl		1		02/08/17 12:05		
Depth to Water	14.77	feet		1		02/08/17 12:05		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	168	mg/L	25.0	100		02/15/17 09:41	16887-00-6	
Fluoride	1.2	mg/L	0.10	1		02/15/17 09:07	16984-48-8	
Sulfate	47.8	mg/L	2.5	10		02/15/17 09:24	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	421	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:58	7440-39-3	
Boron	781	ug/L	100	1	02/14/17 06:49	02/15/17 08:58	7440-42-8	
Calcium	101000	ug/L	500	1	02/14/17 06:49	02/15/17 08:58	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:58	7440-48-4	
Iron	1570	ug/L	50.0	1	02/14/17 06:49	02/15/17 08:58	7439-89-6	
Magnesium	65300	ug/L	500	1	02/14/17 06:49	02/15/17 08:58	7439-95-4	
Manganese	22.3	ug/L	5.0	1	02/14/17 06:49	02/15/17 08:58	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 06:49	02/15/17 08:58	7440-02-0	
Sodium	141000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:58	7440-23-5	
Total Hardness by 2340B	521000	ug/L	1000	1	02/14/17 06:49	02/15/17 08:58		
Zinc	ND	ug/L	20.0	1	02/14/17 06:49	02/15/17 08:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:51	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/13/17 09:30	02/14/17 15:51	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7440-47-3	
Copper	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7440-50-8	
Lead	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7782-49-2	
Silver	ND	ug/L	5.0	1	02/13/17 09:30	02/14/17 15:51	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/13/17 09:30	02/14/17 15:51	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/13/17 09:30	02/14/17 15:51	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/13/17 14:44	02/13/17 21:22	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 14:08	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 14:08	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 14:08	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 14:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 14:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 14:08	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 14:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 14:08	78-93-3	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-106-SD Lab ID: 50164541008 Collected: 02/08/17 12:05 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 14:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 14:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 14:08	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 14:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 14:08	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 14:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 14:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 14:08	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 14:08	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 14:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 14:08	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 14:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 14:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 14:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 14:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 14:08	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 14:08	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 14:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 14:08	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 14:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 14:08	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 14:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 14:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 14:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 14:08	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 14:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 14:08	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 14:08	1330-20-7	
Surrogates								
Bromofluoromethane (S)	87	%	84-116	1		02/10/17 14:08	1868-53-7	
4-Bromofluorobenzene (S)	92	%	79-116	1		02/10/17 14:08	460-00-4	
Toluene-d8 (S)	92	%	86-110	1		02/10/17 14:08	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	835	mg/L	10.0	1		02/11/17 11:56		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-106-SD Lab ID: 50164541008 Collected: 02/08/17 12:05 Received: 02/09/17 08:20 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	87.1	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:22		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.055	mg/L	0.050	1	02/15/17 10:30	02/16/17 13:34	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	35.6	mg/L	0.50	5		02/23/17 16:52	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	26.6	mg/L	2.0	2		02/22/17 18:33	7440-44-0	

Sample: Trip Blank Lab ID: 50164541009 Collected: 02/08/17 08:00 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/10/17 14:42	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/10/17 14:42	107-13-1	
Benzene	ND	ug/L	5.0	1		02/10/17 14:42	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/10/17 14:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/10/17 14:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/10/17 14:42	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/10/17 14:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/10/17 14:42	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/10/17 14:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/10/17 14:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/10/17 14:42	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/10/17 14:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/10/17 14:42	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/10/17 14:42	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/10/17 14:42	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/10/17 14:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/10/17 14:42	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/10/17 14:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 14:42	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/10/17 14:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/10/17 14:42	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/10/17 14:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/10/17 14:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/10/17 14:42	156-60-5	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: Trip Blank Lab ID: 50164541009 Collected: 02/08/17 08:00 Received: 02/09/17 08:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloropropane	ND	ug/L	5.0	1		02/10/17 14:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 14:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/10/17 14:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/10/17 14:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/10/17 14:42	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/10/17 14:42	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/10/17 14:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/10/17 14:42	108-10-1	
Styrene	ND	ug/L	5.0	1		02/10/17 14:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 14:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/10/17 14:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/10/17 14:42	127-18-4	
Toluene	ND	ug/L	5.0	1		02/10/17 14:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/10/17 14:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/10/17 14:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/10/17 14:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/10/17 14:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/10/17 14:42	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/10/17 14:42	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/10/17 14:42	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/10/17 14:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	84-118	1		02/10/17 14:42	1868-53-7	
4-Bromofluorobenzene (S)	91	%	79-116	1		02/10/17 14:42	460-00-4	
Toluene-d8 (S)	92	%	86-110	1		02/10/17 14:42	2037-26-5	

Sample: PZ-100-SS Lab ID: 50164541010 Collected: 02/08/17 09:22 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.20	Std. Units		1		02/08/17 09:22		
Field Temperature	14.9	deg C		1		02/08/17 09:22		
Field Specific Conductance	824	umhos/cm		1		02/08/17 09:22		
Field Oxidation Potential	114	mV		1		02/08/17 09:22		
Oxygen, Dissolved	3.35	mg/L		1		02/08/17 09:22	7782-44-7	
Field Turbidity	0.16	NTU		1		02/08/17 09:22		
Total Well Depth	89.34	feet		1		02/08/17 09:22		
Elevation Water Level	455.88	ft/msl		1		02/08/17 09:22		
Collar Elevation	485.75	ft/msl		1		02/08/17 09:22		
Depth to Water	29.87	feet		1		02/08/17 09:22		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	6.1	mg/L	0.25	1		02/14/17 09:34	16887-00-6	
Fluoride	0.48	mg/L	0.10	1		02/14/17 09:34	16984-48-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SS Lab ID: 50164541010 Collected: 02/08/17 09:22 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Sulfate	35.0	mg/L	2.5	10		02/14/17 09:51	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	63.7	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:38	7440-39-3	
Boron	169	ug/L	100	1	02/14/17 11:07	02/17/17 09:38	7440-42-8	
Calcium	89000	ug/L	500	1	02/14/17 11:07	02/17/17 09:38	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:38	7440-48-4	
Iron	ND	ug/L	50.0	1	02/14/17 11:07	02/17/17 09:38	7439-89-6	
Magnesium	50500	ug/L	500	1	02/14/17 11:07	02/17/17 09:38	7439-95-4	
Manganese	ND	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:38	7439-96-5	
Nickel	10.2	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:38	7440-02-0	
Sodium	10300	ug/L	1000	1	02/14/17 11:07	02/17/17 09:38	7440-23-5	
Total Hardness by 2340B	430000	ug/L	1000	1	02/14/17 11:07	02/17/17 09:38		
Zinc	ND	ug/L	20.0	1	02/14/17 11:07	02/17/17 09:38	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:07	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:47	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:47	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/14/17 08:30	02/14/17 18:47	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:47	7440-47-3	
Copper	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:07	7440-50-8	
Lead	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:47	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:47	7782-49-2	
Silver	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:47	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:47	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/14/17 08:30	02/14/17 18:47	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/15/17 10:34	02/15/17 22:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/14/17 17:18	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/14/17 17:18	107-13-1	
Benzene	ND	ug/L	5.0	1		02/14/17 17:18	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/14/17 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/14/17 17:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/14/17 17:18	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/14/17 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/14/17 17:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/14/17 17:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/14/17 17:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/14/17 17:18	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/14/17 17:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/14/17 17:18	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/14/17 17:18	74-87-3	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SS Lab ID: 50164541010 Collected: 02/08/17 09:22 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/14/17 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/14/17 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/14/17 17:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/14/17 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 17:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 17:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/14/17 17:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/14/17 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/14/17 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/14/17 17:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 17:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/14/17 17:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/14/17 17:18	591-78-6	
Bromomethane	ND	ug/L	5.0	1		02/14/17 17:18	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/14/17 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/14/17 17:18	108-10-1	
Styrene	ND	ug/L	5.0	1		02/14/17 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/14/17 17:18	127-18-4	
Toluene	ND	ug/L	5.0	1		02/14/17 17:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/14/17 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/14/17 17:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/14/17 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/14/17 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/14/17 17:18	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/14/17 17:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/14/17 17:18	75-01-4	
Xylene (Total)	ND	ug/L	6.0	1		02/14/17 17:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-116	1		02/14/17 17:18	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/14/17 17:18	460-00-4	
Toluene-d8 (S)	91	%.	86-110	1		02/14/17 17:18	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	418	mg/L	10.0	1		02/13/17 10:15		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:24		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-100-SS Lab ID: 50164541010 Collected: 02/08/17 09:22 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 12:05	02/16/17 13:44	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/22/17 15:54	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		02/21/17 03:23	7440-44-0	

Sample: PZ-105-SS Lab ID: 50164541011 Collected: 02/09/17 08:46 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.11	Std. Units		1		02/09/17 08:46		
Field Temperature	17.2	deg C		1		02/09/17 08:46		
Field Specific Conductance	1087	umhos/cm		1		02/09/17 08:46		
Field Oxidation Potential	-63	mV		1		02/09/17 08:46		
Oxygen, Dissolved	1.09	mg/L		1		02/09/17 08:46	7782-44-7	
Field Turbidity	1.01	NTU		1		02/09/17 08:46		
Total Well Depth	144.63	feet		1		02/09/17 08:46		
Elevation Water Level	459.30	ft/msl		1		02/09/17 08:46		
Collar Elevation	483.51	ft/msl		1		02/09/17 08:46		
Depth to Water	24.21	feet		1		02/09/17 08:46		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	66.3	mg/L	2.5	10		02/14/17 10:26	16887-00-6	
Fluoride	0.56	mg/L	0.10	1		02/14/17 10:09	16984-48-8	
Sulfate	47.8	mg/L	2.5	10		02/14/17 10:26	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	182	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:40	7440-39-3	
Boron	ND	ug/L	100	1	02/14/17 11:07	02/17/17 09:40	7440-42-8	
Calcium	106000	ug/L	500	1	02/14/17 11:07	02/17/17 09:40	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:40	7440-48-4	
Iron	4510	ug/L	50.0	1	02/14/17 11:07	02/17/17 09:40	7439-89-6	
Magnesium	56800	ug/L	500	1	02/14/17 11:07	02/17/17 09:40	7439-95-4	
Manganese	107	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:40	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:40	7440-02-0	
Sodium	41500	ug/L	1000	1	02/14/17 11:07	02/17/17 09:40	7440-23-5	
Total Hardness by 2340B	499000	ug/L	1000	1	02/14/17 11:07	02/17/17 09:40		
Zinc	ND	ug/L	20.0	1	02/14/17 11:07	02/17/17 09:40	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:12	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:52	7440-38-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-105-SS Lab ID: 50164541011 Collected: 02/09/17 08:46 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Beryllium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:52	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/14/17 08:30	02/14/17 18:52	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:52	7440-47-3	
Copper	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:12	7440-50-8	
Lead	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:52	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:52	7782-49-2	
Silver	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:52	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:52	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/14/17 08:30	02/14/17 18:52	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/15/17 10:34	02/15/17 22:08	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/14/17 17:51	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/14/17 17:51	107-13-1	
Benzene	ND	ug/L	5.0	1		02/14/17 17:51	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/14/17 17:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/14/17 17:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/14/17 17:51	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/14/17 17:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/14/17 17:51	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/14/17 17:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/14/17 17:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/14/17 17:51	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/14/17 17:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/14/17 17:51	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/14/17 17:51	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/14/17 17:51	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/14/17 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/14/17 17:51	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/14/17 17:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 17:51	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 17:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/14/17 17:51	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/14/17 17:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/14/17 17:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 17:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/14/17 17:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 17:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/14/17 17:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/14/17 17:51	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/14/17 17:51	74-88-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-105-SS Lab ID: 50164541011 Collected: 02/09/17 08:46 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methylene Chloride	ND	ug/L	5.0	1		02/14/17 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/14/17 17:51	108-10-1	
Styrene	ND	ug/L	5.0	1		02/14/17 17:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 17:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 17:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/14/17 17:51	127-18-4	
Toluene	ND	ug/L	5.0	1		02/14/17 17:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/14/17 17:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/14/17 17:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/14/17 17:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/14/17 17:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/14/17 17:51	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/14/17 17:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/14/17 17:51	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/14/17 17:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	87	%.	84-118	1		02/14/17 17:51	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/14/17 17:51	460-00-4	
Toluene-d8 (S)	92	%.	86-110	1		02/14/17 17:51	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	583	mg/L	10.0	1		02/15/17 11:32		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:25		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 12:05	02/16/17 13:45	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/22/17 15:55	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.7	mg/L	1.0	1		02/21/17 03:54	7440-44-0	

Sample: PZ-104-SS Lab ID: 50164541012 Collected: 02/09/17 11:00 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.71	Std. Units		1		02/09/17 11:00		
Field Temperature	24.9	deg C		1		02/09/17 11:00		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-104-SS Lab ID: 50164541012 Collected: 02/09/17 11:00 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Specific Conductance	798	umhos/cm		1		02/09/17 11:00		
Field Oxidation Potential	-238	mV		1		02/09/17 11:00		
Oxygen, Dissolved	0.19	mg/L		1		02/09/17 11:00	7782-44-7	
Field Turbidity	0.27	NTU		1		02/09/17 11:00		
Total Well Depth	140.54	feet		1		02/09/17 11:00		
Elevation Water Level	463.15	ft/msl		1		02/09/17 11:00		
Collar Elevation	483.45	ft/msl		1		02/09/17 11:00		
Depth to Water	20.30	feet		1		02/09/17 11:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	4.0	mg/L	0.25	1		02/14/17 10:43	16887-00-6	
Fluoride	0.67	mg/L	0.10	1		02/14/17 10:43	16984-48-8	
Sulfate	14.7	mg/L	0.25	1		02/14/17 10:43	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	100	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:43	7440-39-3	
Iron	134	ug/L	100	1	02/14/17 11:07	02/17/17 09:43	7440-42-8	
Calcium	82500	ug/L	500	1	02/14/17 11:07	02/17/17 09:43	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:43	7440-48-4	
Iron	178	ug/L	50.0	1	02/14/17 11:07	02/17/17 09:43	7439-89-6	
Magnesium	49300	ug/L	500	1	02/14/17 11:07	02/17/17 09:43	7439-95-4	
Manganese	23.4	ug/L	5.0	1	02/14/17 11:07	02/17/17 09:43	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/14/17 11:07	02/17/17 09:43	7440-02-0	
Sodium	14400	ug/L	1000	1	02/14/17 11:07	02/17/17 09:43	7440-23-5	
Total Hardness by 2340B	410000	ug/L	1000	1	02/14/17 11:07	02/17/17 09:43		
Zinc	ND	ug/L	20.0	1	02/14/17 11:07	02/17/17 09:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:16	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:56	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/14/17 08:30	02/14/17 18:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:56	7440-47-3	
Copper	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 14:16	7440-50-8	
Lead	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:56	7782-49-2	
Silver	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 18:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 18:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/14/17 08:30	02/14/17 18:56	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/15/17 10:34	02/15/17 22:15	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/14/17 18:25	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/14/17 18:25	107-13-1	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-104-SS Lab ID: 50164541012 Collected: 02/09/17 11:00 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	302	ug/L	50.0	10		02/15/17 12:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/14/17 18:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/14/17 18:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/14/17 18:25	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/14/17 18:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/14/17 18:25	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/14/17 18:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/14/17 18:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/14/17 18:25	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/14/17 18:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/14/17 18:25	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/14/17 18:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/14/17 18:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/14/17 18:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/14/17 18:25	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/14/17 18:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 18:25	95-50-1	
1,4-Dichlorobenzene	6.3	ug/L	5.0	1		02/14/17 18:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/14/17 18:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/14/17 18:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/14/17 18:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/14/17 18:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 18:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 18:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/14/17 18:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/14/17 18:25	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/14/17 18:25	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/14/17 18:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/14/17 18:25	108-10-1	
Styrene	ND	ug/L	5.0	1		02/14/17 18:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 18:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 18:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/14/17 18:25	127-18-4	
Toluene	31.7	ug/L	5.0	1		02/14/17 18:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/14/17 18:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/14/17 18:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/14/17 18:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/14/17 18:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/14/17 18:25	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/14/17 18:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/14/17 18:25	75-01-4	
Xylene (Total)	12.7	ug/L	5.0	1		02/14/17 18:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	85	%.	84-118	1		02/14/17 18:25	1868-53-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-104-SS Lab ID: 50164541012 Collected: 02/09/17 11:00 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	95	%.	79-116	1		02/14/17 18:25	460-00-4	
Toluene-d8 (S)	91	%.	86-110	1		02/14/17 18:25	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	406	mg/L	10.0	1		02/15/17 11:33		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	24.2	mg/L	10.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:27		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/15/17 12:05	02/16/17 13:45	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/22/17 15:56	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.4	mg/L	1.0	1		02/21/17 05:11	7440-44-0	

Sample: PZ-104-SD Lab ID: 50164541013 Collected: 02/09/17 11:56 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.85	Std. Units		1		02/09/17 11:56		
Field Temperature	23.0	deg C		1		02/09/17 11:56		
Field Specific Conductance	2030	umhos/cm		1		02/09/17 11:56		
Field Oxidation Potential	-210	mV		1		02/09/17 11:56		
Oxygen, Dissolved	0.13	mg/L		1		02/09/17 11:56	7782-44-7	
Field Turbidity	0.71	NTU		1		02/09/17 11:56		
Total Well Depth	120.61	feet		1		02/09/17 11:56		
Elevation Water Level	461.51	ft/msl		1		02/09/17 11:56		
Collar Elevation	483.61	ft/msl		1		02/09/17 11:56		
Depth to Water	22.00	feet		1		02/09/17 11:56		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	284	mg/L	25.0	100		02/14/17 12:56	16887-00-6	
Fluoride	0.76	mg/L	0.10	1		02/14/17 12:22	16984-48-8	
Sulfate	1.6	mg/L	0.25	1		02/14/17 12:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-104-SD Lab ID: 50164541013 Collected: 02/09/17 11:56 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	609	ug/L	10.0	1	02/14/17 11:07	02/17/17 10:00	7440-39-3	
Boron	1130	ug/L	100	1	02/14/17 11:07	02/17/17 10:00	7440-42-8	
Calcium	110000	ug/L	500	1	02/14/17 11:07	02/17/17 10:00	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/14/17 11:07	02/17/17 10:00	7440-48-4	
Iron	14000	ug/L	50.0	1	02/14/17 11:07	02/17/17 10:00	7439-89-6	
Magnesium	67700	ug/L	500	1	02/14/17 11:07	02/17/17 10:00	7439-95-4	
Manganese	126	ug/L	5.0	1	02/14/17 11:07	02/17/17 10:00	7439-96-5	
Nickel	62.7	ug/L	10.0	1	02/14/17 11:07	02/17/17 10:00	7440-02-0	
Sodium	178000	ug/L	1000	1	02/14/17 11:07	02/17/17 10:00	7440-23-5	
Total Hardness by 2340B	553000	ug/L	1000	1	02/14/17 11:07	02/17/17 10:00		
Zinc	ND	ug/L	20.0	1	02/14/17 11:07	02/17/17 10:00	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 15:44	7440-36-0	
Arsenic	15.3	ug/L	5.0	1	02/14/17 08:30	02/14/17 20:43	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 20:43	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/14/17 08:30	02/14/17 20:43	7440-43-9	
Chromium	13.2	ug/L	5.0	1	02/14/17 08:30	02/14/17 20:43	7440-47-3	
Copper	ND	ug/L	5.0	1	02/14/17 08:30	02/15/17 15:44	7440-50-8	
Lead	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 20:43	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 20:43	7782-49-2	
Silver	ND	ug/L	5.0	1	02/14/17 08:30	02/14/17 20:43	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/14/17 08:30	02/14/17 20:43	7440-28-0	
Vanadium	13.3	ug/L	10.0	1	02/14/17 08:30	02/14/17 20:43	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/15/17 10:34	02/15/17 22:17	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/14/17 18:58	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/14/17 18:58	107-13-1	
Benzene	433	ug/L	50.0	10		02/14/17 19:31	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/14/17 18:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/14/17 18:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/14/17 18:58	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/14/17 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/14/17 18:58	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/14/17 18:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/14/17 18:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/14/17 18:58	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/14/17 18:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/14/17 18:58	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/14/17 18:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/14/17 18:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/14/17 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/14/17 18:58	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-104-SD Lab ID: 50164541013 Collected: 02/09/17 11:56 Received: 02/11/17 10:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Dibromomethane	ND	ug/L	10.0	1		02/14/17 18:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/14/17 18:58	95-50-1	
1,4-Dichlorobenzene	5.7	ug/L	5.0	1		02/14/17 18:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/14/17 18:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/14/17 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/14/17 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/14/17 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/14/17 18:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/14/17 18:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/14/17 18:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/14/17 18:58	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/14/17 18:58	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/14/17 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/14/17 18:58	108-10-1	
Styrene	ND	ug/L	5.0	1		02/14/17 18:58	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 18:58	630-20-6	
1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/14/17 18:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/14/17 18:58	127-18-4	
Toluene	7.8	ug/L	5.0	1		02/14/17 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/14/17 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/14/17 18:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/14/17 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/14/17 18:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/14/17 18:58	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/14/17 18:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/14/17 18:58	75-01-4	
Xylene (Total)	24.6	ug/L	5.0	1		02/14/17 18:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	84-118	1		02/14/17 18:58	1868-53-7	
4-Bromofluorobenzene (S)	86	%.	79-116	1		02/14/17 18:58	460-00-4	
Toluene-d8 (S)	91	%.	86-110	1		02/14/17 18:58	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1030	mg/L	10.0	1		02/15/17 11:33		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	227	mg/L	20.0	1	02/16/17 08:15	02/16/17 11:01		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/14/17 10:29		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.14	mg/L	0.050	1	02/15/17 12:05	02/16/17 13:47	7723-14-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-201A-SS Lab ID: 50164541015 Collected: 02/17/17 11:25 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese	8.8	ug/L	5.0	1	02/23/17 11:07	02/27/17 21:30	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/23/17 11:07	02/27/17 21:30	7440-02-0	
Sodium	12100	ug/L	1000	1	02/23/17 11:07	02/27/17 21:30	7440-23-5	
Total Hardness by 2340B	425000	ug/L	1000	1	02/23/17 11:07	02/27/17 21:30		
Zinc	ND	ug/L	20.0	1	02/23/17 11:07	02/27/17 21:30	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7440-36-0	
Arsenic	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:31	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/22/17 08:30	02/22/17 18:31	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7440-47-3	
Copper	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7440-50-8	
Lead	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:31	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:31	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/22/17 08:30	02/22/17 18:31	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/22/17 07:37	02/22/17 12:23	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/22/17 17:38	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/22/17 17:38	107-13-1	
Benzene	ND	ug/L	5.0	1		02/22/17 17:38	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/22/17 17:38	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/17 17:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/17 17:38	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/17 17:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/17 17:38	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/22/17 17:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/17 17:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/17 17:38	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/17 17:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/17 17:38	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/22/17 17:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/17 17:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/17 17:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/17 17:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/22/17 17:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 17:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 17:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/22/17 17:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/17 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/17 17:38	107-06-2	

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ANALYTICAL RESULTS

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

Sample: **PZ-201A-SS** **Lab ID: 50164541015** Collected: 02/17/17 11:25 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 **MSV**	Analytical Method: EPA 8260							
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/17 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/17 17:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 17:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/22/17 17:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/22/17 17:38	591-78-6	
Methane	ND	ug/L	5.0	1		02/22/17 17:38	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/17 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/17 17:38	108-10-1	
Styrene	ND	ug/L	5.0	1		02/22/17 17:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 17:38	630-20-6	
Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 17:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/17 17:38	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/17 17:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/17 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/17 17:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/17 17:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/17 17:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/17 17:38	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/22/17 17:38	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/17 17:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/22/17 17:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	84-118	1		02/22/17 17:38	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-116	1		02/22/17 17:38	460-00-4	
Toluene-d8 (S)	103	%.	86-110	1		02/22/17 17:38	2037-26-5	
2540C **Total Dissolved Solids**	Analytical Method: SM 2540C							
Total Dissolved Solids	**455**	mg/L	10.0	1		02/22/17 09:22		
410.4 **COD**	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	02/23/17 10:07	02/23/17 13:01		
353.2 **Nitrogen, NO2/NO3 pres.**	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.33**	mg/L	0.10	1		02/21/17 13:11		
365.1 **Total Phosphorus**	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	02/27/17 12:20	02/28/17 11:31	7723-14-0	
Ammonia Water	Analytical Method: SM 4500-NH3 G							
Ammonia	ND	mg/L	0.10	1		02/24/17 15:23	7664-41-7	
TOC	Analytical Method: SM 5310C							
Organic Carbon	ND	mg/L	1.0	1		02/28/17 21:25	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-115-SS **Lab ID: 50164541016** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qu
Field Data	Analytical Method:							
Field pH	**6.57**	Std. Units		1		02/17/17 13:24		
Field Temperature	**16.5**	deg C		1		02/17/17 13:24		
Field Specific Conductance	**2460**	umhos/cm		1		02/17/17 13:24		
Field Oxidation Potential	**22**	mV		1		02/17/17 13:24		
Oxygen, Dissolved	**0.48**	mg/L		1		02/17/17 13:24	7782-44-7	
Field Turbidity	**1.03**	NTU		1		02/17/17 13:24		
Total Well Depth	**81.04**	feet		1		02/17/17 13:24		
Elevation Water Level	**436.71**	ft/msl		1		02/17/17 13:24		
Collar Elevation	**452.27**	ft/msl		1		02/17/17 13:24		
Depth to Water	**15.56**	feet		1		02/17/17 13:24		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**463**	mg/L	25.0	100		02/22/17 05:51	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	1		02/22/17 05:16	16984-48-8	
Sulfate	**3.2**	mg/L	0.25	1		02/22/17 05:16	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**505**	ug/L	10.0	1	02/23/17 11:07	02/27/17 21:33	7440-39-3	
Boron	**467**	ug/L	100	1	02/23/17 11:07	02/27/17 21:33	7440-42-8	
Calcium	**226000**	ug/L	1000	2	02/23/17 11:07	02/27/17 21:46	7440-70-2	
Cobalt	**29.6**	ug/L	5.0	1	02/23/17 11:07	02/27/17 21:33	7440-48-4	
Iron	**3100**	ug/L	50.0	1	02/23/17 11:07	02/27/17 21:33	7439-89-6	
Magnesium	**104000**	ug/L	500	1	02/23/17 11:07	02/27/17 21:33	7439-95-4	
Manganese	**76.5**	ug/L	5.0	1	02/23/17 11:07	02/27/17 21:33	7439-96-5	
Nickel	**74.5**	ug/L	10.0	1	02/23/17 11:07	02/27/17 21:33	7440-02-0	
Sodium	**176000**	ug/L	1000	1	02/23/17 11:07	02/27/17 21:33	7440-23-5	
Total Hardness by 2340B	**993000**	ug/L	2000	2	02/23/17 11:07	02/27/17 21:46		
Zinc	ND	ug/L	20.0	1	02/23/17 11:07	02/27/17 21:33	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7440-36-0	
Arsenic	**6.2**	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 16:31	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/22/17 08:30	02/22/17 16:31	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7440-47-3	
Copper	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7440-50-8	
Lead	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 16:31	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 16:31	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/22/17 08:30	02/22/17 16:31	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/24/17 22:46	02/27/17 11:51	7439-97-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: **PZ-115-SS** **Lab ID: 50164541016** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/22/17 18:13	67-64-1	
Acetonitrile	ND	ug/L	100	1		02/22/17 18:13	107-13-1	
Benzene	ND	ug/L	5.0	1		02/22/17 18:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/17 18:13	74-97-5	
Bromoform	ND	ug/L	5.0	1		02/22/17 18:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/17 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/17 18:13	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/22/17 18:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/17 18:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/17 18:13	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/17 18:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/17 18:13	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/22/17 18:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/17 18:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/17 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/17 18:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/22/17 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 18:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 18:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/22/17 18:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/17 18:13	75-34-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/17 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/17 18:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 18:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/22/17 18:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/22/17 18:13	591-78-6	
Methane	ND	ug/L	5.0	1		02/22/17 18:13	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/17 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/17 18:13	108-10-1	
Styrene	ND	ug/L	5.0	1		02/22/17 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 18:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/17 18:13	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/17 18:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/17 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/17 18:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/17 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/17 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/17 18:13	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/22/17 18:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/17 18:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/22/17 18:13	1330-20-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-115-SS **Lab ID: 50164541016** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	96	%.	84-118	1		02/22/17 18:13	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	79-116	1		02/22/17 18:13	460-00-4	
Toluene-d8 (S)	106	%.	86-110	1		02/22/17 18:13	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**1520**	mg/L	10.0	1		02/22/17 09:22		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**44.4**	mg/L	10.0	1	02/23/17 10:07	02/23/17 13:20		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/21/17 13:16		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**0.17**	mg/L	0.050	1	03/01/17 12:50	03/01/17 15:42	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**1.2**	mg/L	0.10	1		02/24/17 15:28	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**10.4**	mg/L	4.0	4		03/01/17 12:20	7440-44-0	

Sample: PZ-115-SS DUP **Lab ID: 50164541017** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**420**	mg/L	25.0	100		02/22/17 06:43	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	1		02/22/17 06:08	16984-48-8	
Sulfate	**3.3**	mg/L	0.25	1		02/22/17 06:08	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**510**	ug/L	10.0	1	02/23/17 11:07	02/27/17 21:35	7440-39-3	
Boron	**476**	ug/L	100	1	02/23/17 11:07	02/27/17 21:35	7440-42-8	
Calcium	**226000**	ug/L	1000	2	02/23/17 11:07	02/27/17 21:53	7440-70-2	
Cobalt	**30.3**	ug/L	5.0	1	02/23/17 11:07	02/27/17 21:35	7440-48-4	
Iron	**3150**	ug/L	50.0	1	02/23/17 11:07	02/27/17 21:35	7439-89-6	
Magnesium	**105000**	ug/L	500	1	02/23/17 11:07	02/27/17 21:35	7439-95-4	
Manganese	**77.4**	ug/L	5.0	1	02/23/17 11:07	02/27/17 21:35	7439-96-5	
Nickel	**75.8**	ug/L	10.0	1	02/23/17 11:07	02/27/17 21:35	7440-02-0	
Sodium	**179000**	ug/L	1000	1	02/23/17 11:07	02/27/17 21:35	7440-23-5	
Total Hardness by 2340B	**997000**	ug/L	2000	2	02/23/17 11:07	02/27/17 21:53		
Zinc	ND	ug/L	20.0	1	02/23/17 11:07	02/27/17 21:35	7440-66-6	

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ANALYTICAL RESULTS

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

PZ-115-SS DUP **Lab ID: 50164541017** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 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	02/22/17 08:30	02/22/17 18:36	7440-36-0	
Arsenic	**6.0**	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:36	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/22/17 08:30	02/22/17 18:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7440-47-3	
Copper	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7440-50-8	
Lead	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7439-92-1	
Selenium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:36	7440-22-4	
Thallium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:36	7440-28-0	
Vanadium	ND	ug/L	10.0	1	02/22/17 08:30	02/22/17 18:36	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/24/17 22:46	02/27/17 11:53	7439-97-6	
MSV	Analytical Method: EPA 8260							
	ND	ug/L	10.0	1		02/22/17 18:48	67-64-1	
Acrolein	ND	ug/L	100	1		02/22/17 18:48	107-13-1	
Acrylonitrile	ND	ug/L	5.0	1		02/22/17 18:48	71-43-2	
Benzene	ND	ug/L	5.0	1		02/22/17 18:48	74-97-5	
Bromochloromethane	ND	ug/L	5.0	1		02/22/17 18:48	75-27-4	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/17 18:48	75-25-2	
Bromoform	ND	ug/L	10.0	1		02/22/17 18:48	74-83-9	
Bromomethane	ND	ug/L	10.0	1		02/22/17 18:48	78-93-3	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/17 18:48	75-15-0	
Carbon disulfide	ND	ug/L	5.0	1		02/22/17 18:48	56-23-5	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/17 18:48	108-90-7	
Chlorobenzene	ND	ug/L	10.0	1		02/22/17 18:48	75-00-3	
Chloroethane	ND	ug/L	5.0	1		02/22/17 18:48	67-66-3	
Chloroform	ND	ug/L	10.0	1		02/22/17 18:48	74-87-3	
Chloromethane	ND	ug/L	5.0	1		02/22/17 18:48	96-12-8	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/17 18:48	124-48-1	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/17 18:48	106-93-4	
1,2-Dibromoethane (EDB)	ND	ug/L	10.0	1		02/22/17 18:48	74-95-3	
Dibromomethane	ND	ug/L	5.0	1		02/22/17 18:48	95-50-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 18:48	106-46-7	
1,3-Dichlorobenzene	ND	ug/L	10.0	1		02/22/17 18:48	110-57-6	
1,4-Dichloro-2-butene	ND	ug/L	5.0	1		02/22/17 18:48	75-34-3	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 18:48	107-06-2	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/17 18:48	75-35-4	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/17 18:48	156-59-2	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/17 18:48	156-60-5	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:48	78-87-5	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:48	10061-01-5	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 18:48	10061-02-6	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/17 18:48	100-41-4	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 18:48		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 18:48		
Ethylbenzene	ND	ug/L	5.0	1		02/22/17 18:48		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-115-SS DUP **Lab ID: 50164541017** Collected: 02/17/17 13:24 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.
8260 MSV	Analytical Method: EPA 8260						
2-Hexanone	ND	ug/L	10.0	1		02/22/17 18:48	591-78-6
Iodomethane	ND	ug/L	5.0	1		02/22/17 18:48	74-88-4
Methylene Chloride	ND	ug/L	5.0	1		02/22/17 18:48	75-09-2
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/17 18:48	108-10-1
Styrene	ND	ug/L	5.0	1		02/22/17 18:48	100-42-5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 18:48	630-20-6
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 18:48	79-34-5
Tetrachloroethene	ND	ug/L	5.0	1		02/22/17 18:48	127-18-4
Toluene	ND	ug/L	5.0	1		02/22/17 18:48	108-88-3
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/17 18:48	71-55-6
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/17 18:48	79-00-5
Trichloroethene	ND	ug/L	5.0	1		02/22/17 18:48	79-01-6
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/17 18:48	75-69-4
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/17 18:48	96-18-4
Vinyl acetate	ND	ug/L	10.0	1		02/22/17 18:48	108-05-4
Vinyl chloride	ND	ug/L	2.0	1		02/22/17 18:48	75-01-4
Xylene (Total)	ND	ug/L	5.0	1		02/22/17 18:48	1330-20-7
Surrogates							
Dibromofluoromethane (S)	95	%.	84-118	1		02/22/17 18:48	1868-53-7
4-Bromofluorobenzene (S)	94	%.	79-116	1		02/22/17 18:48	460-00-4
Toluene-d8 (S)	105	%.	86-110	1		02/22/17 18:48	2037-26-5
2540C Total Dissolved Solids	Analytical Method: SM 2540C						
Total Dissolved Solids	**1500**	mg/L	10.0	1		02/22/17 09:22	
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4						
Chemical Oxygen Demand	**40.4**	mg/L	10.0	1	02/23/17 10:07	02/23/17 13:20	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2						
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/21/17 13:18	
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1						
Phosphorus	**0.22**	mg/L	0.050	1	03/01/17 12:50	03/01/17 15:42	7723-14-0
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G						
Nitrogen, Ammonia	**1.2**	mg/L	0.10	1		02/24/17 15:29	7664-41-7
5310C TOC	Analytical Method: SM 5310C						
Total Organic Carbon	**10.6**	mg/L	4.0	4		03/01/17 13:08	7440-44-0

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: **PZ-114-AS** **Lab ID: 50164541018** Collected: 02/17/17 13:57 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**6.55**	Std. Units		1		02/17/17 13:57		
Field Temperature	**17.5**	deg C		1		02/17/17 13:57		
Specific Conductance	**2260**	umhos/cm		1		02/17/17 13:57		
Oxidation Potential	**-77**	mV		1		02/17/17 13:57		
Dissolved	**0.65**	mg/L		1		02/17/17 13:57	7782-44-7	
Turbidity	**3.36**	NTU		1		02/17/17 13:57		
Well Depth	**26.29**	feet		1		02/17/17 13:57		
Station Water Level	**430.14**	ft/msl		1		02/17/17 13:57		
Field Elevation	**451.26**	ft/msl		1		02/17/17 13:57		
Depth to Water	**21.12**	feet		1		02/17/17 13:57		
300 IC Anions	Analytical Method: EPA 9056							
Chloride	**400**	mg/L	25.0	100		02/22/17 07:34	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		02/22/17 07:00	16984-48-8	
Sulfate	**1.0**	mg/L	0.25	1		02/22/17 07:00	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	**991**	ug/L	10.0	1	02/23/17 11:07	02/27/17 22:00	7440-39-3	
Boron	**203**	ug/L	100	1	02/23/17 11:07	02/27/17 22:00	7440-42-8	
Calcium	**202000**	ug/L	1000	2	02/23/17 11:07	02/27/17 22:12	7440-70-2	
Cobalt	ND	ug/L	5.0	1	02/23/17 11:07	02/27/17 22:00	7440-48-4	
Iron	**66400**	ug/L	50.0	1	02/23/17 11:07	02/27/17 22:00	7439-89-6	
Magnesium	**49500**	ug/L	500	1	02/23/17 11:07	02/27/17 22:00	7439-95-4	
Manganese	**4400**	ug/L	5.0	1	02/23/17 11:07	02/27/17 22:00	7439-96-5	
Nickel	ND	ug/L	10.0	1	02/23/17 11:07	02/27/17 22:00	7440-02-0	
Sodium	**169000**	ug/L	1000	1	02/23/17 11:07	02/27/17 22:00	7440-23-5	
Total Hardness by 2340B	**709000**	ug/L	2000	2	02/23/17 11:07	02/27/17 22:12		
	ND	ug/L	20.0	1	02/23/17 11:07	02/27/17 22:00	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7440-36-0	
Arsenic	**114**	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7440-38-2	
Beryllium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:41	7440-41-7	
Cadmium	ND	ug/L	0.20	1	02/22/17 08:30	02/22/17 18:41	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7440-47-3	
Lead	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7440-50-8	
Selenium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7439-92-1	
Silver	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7782-49-2	
Thallium	ND	ug/L	5.0	1	02/22/17 08:30	02/22/17 18:41	7440-22-4	
Vanadium	ND	ug/L	2.0	1	02/22/17 08:30	02/22/17 18:41	7440-28-0	
	ND	ug/L	10.0	1	02/22/17 08:30	02/22/17 18:41	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/24/17 22:46	02/27/17 11:56	7439-97-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: PZ-114-AS **Lab ID: 50164541018** Collected: 02/17/17 13:57 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/22/17 19:23	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/22/17 19:23	107-13-1	
Benzene	ND	ug/L	5.0	1		02/22/17 19:23	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/22/17 19:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/17 19:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/17 19:23	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/17 19:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/17 19:23	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/22/17 19:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/17 19:23	56-23-5	
Chlorobenzene	**34.9**	ug/L	5.0	1		02/22/17 19:23	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/17 19:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/17 19:23	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/22/17 19:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/17 19:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/17 19:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/17 19:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		02/22/17 19:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 19:23	95-50-1	
1,4-Dichlorobenzene	**5.6**	ug/L	5.0	1		02/22/17 19:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/22/17 19:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/17 19:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/17 19:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/17 19:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 19:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 19:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/22/17 19:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/22/17 19:23	591-78-6	
Iodomethane	ND	ug/L	5.0	1		02/22/17 19:23	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/17 19:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/17 19:23	108-10-1	
Styrene	ND	ug/L	5.0	1		02/22/17 19:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 19:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 19:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/17 19:23	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/17 19:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/17 19:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/17 19:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/17 19:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/17 19:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/17 19:23	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		02/22/17 19:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		02/22/17 19:23	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		02/22/17 19:23	1330-20-7	

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ANALYTICAL RESULTS

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

Sample: **PZ-114-AS** **Lab ID: 50164541018** Collected: 02/17/17 13:57 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 **MSV**	Analytical Method: EPA 8260							
Surrogates								
Dibromofluoromethane (S)	95	%.	84-118	1		02/22/17 19:23	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	79-116	1		02/22/17 19:23	460-00-4	
Toluene-d8 (S)	101	%.	86-110	1		02/22/17 19:23	2037-26-5	
2540C **Total Dissolved Solids**	Analytical Method: SM 2540C							
Total Dissolved Solids	**1350**	mg/L	20.0	1		02/22/17 09:23		
410.4 **COD**	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	**39.2**	mg/L	10.0	1	02/23/17 10:07	02/23/17 13:20		
353.2 **Nitrogen, NO2/NO3 pres.**	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		02/21/17 13:24		
365.1 **Total Phosphorus**	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	**1.6**	mg/L	0.25	5	03/01/17 12:50	03/01/17 16:02	7723-14-0	
Ammonia **Water**	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	**6.6**	mg/L	0.10	1		03/03/17 12:13	7664-41-7	
5310C **TOC**	Analytical Method: SM 5310C							
Total Organic Carbon	**7.6**	mg/L	4.0	4		02/28/17 07:24	7440-44-0	

Sample: **Trip Blank** **Lab ID: 50164541019** Collected: 02/17/17 08:00 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 **MSV**	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/22/17 19:59	67-64-1	
Acrylonitrile	ND	ug/L	100	1		02/22/17 19:59	107-13-1	
Benzene	ND	ug/L	5.0	1		02/22/17 19:59	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		02/22/17 19:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/17 19:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/17 19:59	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/17 19:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/17 19:59	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		02/22/17 19:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/17 19:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/17 19:59	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/17 19:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/17 19:59	67-66-3	
Chloromethane	ND	ug/L	10.0	1		02/22/17 19:59	74-87-3	
1-Chloro-3-chloropropane	ND	ug/L	5.0	1		02/22/17 19:59	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/17 19:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/17 19:59	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Sample: Trip Blank **Lab ID: 50164541019** Collected: 02/17/17 08:00 Received: 02/18/17 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No
8260 MSV	Analytical Method: EPA 8260						
Dibromomethane	ND	ug/L	10.0	1		02/22/17 19:59	74-95-3
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 19:59	95-50-1
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/17 19:59	106-46-7
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		02/22/17 19:59	110-57-6
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/17 19:59	75-34-3
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/17 19:59	107-06-2
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:59	75-35-4
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:59	156-59-2
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/17 19:59	156-60-5
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/17 19:59	78-87-5
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 19:59	10061-01-5
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/17 19:59	10061-02-6
Ethylbenzene	ND	ug/L	5.0	1		02/22/17 19:59	100-41-4
2-Hexanone	ND	ug/L	10.0	1		02/22/17 19:59	591-78-6
Iodomethane	ND	ug/L	5.0	1		02/22/17 19:59	74-88-4
Methylene Chloride	ND	ug/L	5.0	1		02/22/17 19:59	75-09-2
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/17 19:59	108-10-1
Styrene	ND	ug/L	5.0	1		02/22/17 19:59	100-42-5
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 19:59	630-20-6
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/17 19:59	79-34-5
Tetrachloroethene	ND	ug/L	5.0	1		02/22/17 19:59	127-18-4
Toluene	ND	ug/L	5.0	1		02/22/17 19:59	108-88-3
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/17 19:59	71-55-6
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/17 19:59	79-00-5
Trichloroethene	ND	ug/L	5.0	1		02/22/17 19:59	79-01-6
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/17 19:59	75-69-4
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/17 19:59	96-18-4
Vinyl acetate	ND	ug/L	10.0	1		02/22/17 19:59	108-05-4
Vinyl chloride	ND	ug/L	2.0	1		02/22/17 19:59	75-01-4
Xylene (Total)	ND	ug/L	5.0	1		02/22/17 19:59	1330-20-7
Surrogates							
Dibromofluoromethane (S)	96	%.	84-118	1		02/22/17 19:59	1868-53-7
4-Bromofluorobenzene (S)	92	%.	79-116	1		02/22/17 19:59	460-00-4
Toluene-d8 (S)	106	%.	86-110	1		02/22/17 19:59	2037-26-5

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373353 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

METHOD BLANK: 1722791 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
	mg/L	ND	0.25	02/15/17 02:12	
	mg/L	ND	0.10	02/15/17 02:12	
	mg/L	ND	0.25	02/15/17 02:12	

LABORATORY CONTROL SAMPLE: 1722792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	96	80-120	
Fluoride	mg/L	.5	0.46	91	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722793 1722794

Parameter	Units	50164541001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.9	1.2	1.2	5.4	5.3	115	114	80-120	0	15	
Fluoride	mg/L	2.1	.5	.5	2.7	2.7	112	117	80-120	1	15	
Sulfate	mg/L	21.3	25	25	47.0	47.0	103	103	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373493 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1723603 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/14/17 09:00	
Fluoride	mg/L	ND	0.10	02/14/17 09:00	
Sulfate	mg/L	ND	0.25	02/14/17 09:00	

LABORATORY CONTROL SAMPLE: 1723604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	.5	0.46	92	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723605 1723606

Parameter	Units	50164640002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	97.6	12.5	12.5	111	111	107	107	80-120	0	15	
Fluoride	mg/L	0.13	.5	.5	0.58	0.58	90	90	80-120	0	15	
Sulfate	mg/L	327	250	250	677	676	140	140	80-120	0	15	M1

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QUALITY CONTROL DATA

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

Batch: 374562 Analysis Method: EPA 9056
Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

METHOD BLANK: 1728054 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	02/22/17 02:23	
Fluoride	mg/L	ND	0.10	02/22/17 02:23	
Sulfate	mg/L	ND	0.25	02/22/17 02:23	

LABORATORY CONTROL SAMPLE: 1728055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	94	80-120	
Fluoride	mg/L	.5	0.45	90	80-120	
Sulfate	mg/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728056 1728057

Parameter	Units	50164541015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.7	1.2	1.2	5.1	5.1	111	112	80-120	0	15	
Fluoride	mg/L	0.30	.5	.5	0.77	0.79	94	98	80-120	3	15	
Sulfate	mg/L	60.4	25	25	83.9	84.1	94	95	80-120	0	15	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373269 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

METHOD BLANK: 1722507 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/17 20:50	

LABORATORY CONTROL SAMPLE: 1722508

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: 1722509 1722510

Parameter	Units	50164478002 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	5.0	5.0	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373598 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1723905 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/15/17 21:49	

LABORATORY CONTROL SAMPLE: 1723906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723907 1723908

Parameter	Units	50164550006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.9	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374686
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Associated Lab Samples: 50164541015

METHOD BLANK: 1728584
Matrix: Water
Associated Lab Samples: 50164541015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/22/17 12:16	

LABORATORY CONTROL SAMPLE: 1728585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728586 1728587

Parameter	Units	50164541015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.9	4.8	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

Batch: 375077 Analysis Method: EPA 7470
Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50164541016, 50164541017, 50164541018

METHOD BLANK: 1730382 Matrix: Water
Associated Lab Samples: 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/27/17 11:12	

LABORATORY CONTROL SAMPLE: 1730383

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: 1730384 1730385

Parameter	Units	50164954040 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	ug/L	ND	5	5	4.8	4.8	93	93	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373190 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

METHOD BLANK: 1722134 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	02/15/17 07:55	
Boron	ug/L	ND	100	02/15/17 07:55	
Calcium	ug/L	ND	500	02/15/17 07:55	
Cobalt	ug/L	ND	5.0	02/15/17 07:55	
Iron	ug/L	ND	50.0	02/15/17 07:55	
Magnesium	ug/L	ND	500	02/15/17 07:55	
Manganese	ug/L	ND	5.0	02/15/17 07:55	
Nickel	ug/L	ND	10.0	02/15/17 07:55	
Sodium	ug/L	ND	1000	02/15/17 07:55	
Total Hardness by 2340B	ug/L	ND	1000	02/15/17 07:55	
Zinc	ug/L	ND	20.0	02/15/17 07:55	

LABORATORY CONTROL SAMPLE: 1722135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1020	102	80-120	
Boron	ug/L	1000	1030	103	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Cobalt	ug/L	1000	1000	100	80-120	
Iron	ug/L	10000	10100	101	80-120	
Magnesium	ug/L	10000	9700	97	80-120	
Manganese	ug/L	1000	965	96	80-120	
Nickel	ug/L	1000	1020	102	80-120	
Sodium	ug/L	10000	10100	101	80-120	
Total Hardness by 2340B	ug/L	66200	65000	98	80-120	
Zinc	ug/L	1000	975	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722136 1722137

Parameter	Units	50164541001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	59.5	1000	1000	1080	1070	102	101	75-125	1	20	
Boron	ug/L	184	1000	1000	1230	1220	105	104	75-125	1	20	
Calcium	ug/L	89000	10000	10000	96200	95400	72	64	75-125	1	20	P6
Cobalt	ug/L	ND	1000	1000	966	958	97	96	75-125	1	20	
Iron	ug/L	ND	10000	10000	10000	9880	100	99	75-125	1	20	
Magnesium	ug/L	51600	10000	10000	60200	59400	86	78	75-125	1	20	
Manganese	ug/L	ND	1000	1000	958	939	96	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722136 1722137

Parameter	Units	50164541001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
[illegible]	ug/L	ND	1000	1000	982	974	98	97	75-125	1	20	
[illegible]dium	ug/L	10100	10000	10000	20200	20000	101	99	75-125	1	20	
[illegible] Hardness by 2340B	ug/L	435000	66200	66200	488000	483000	81	73	75-125	1	20	
[illegible]	ug/L	ND	1000	1000	957	947	95	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373622 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1723982 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	02/17/17 08:08	
Boron	ug/L	ND	100	02/17/17 08:08	
Calcium	ug/L	ND	500	02/17/17 08:08	
Cobalt	ug/L	ND	5.0	02/17/17 08:08	
Iron	ug/L	ND	50.0	02/17/17 08:08	
Magnesium	ug/L	ND	500	02/17/17 08:08	
Manganese	ug/L	ND	5.0	02/17/17 08:08	
Nickel	ug/L	ND	10.0	02/17/17 08:08	
Sodium	ug/L	ND	1000	02/17/17 08:08	
Total Hardness by 2340B	ug/L	ND	1000	02/17/17 08:08	
Zinc	ug/L	ND	20.0	02/17/17 08:08	

LABORATORY CONTROL SAMPLE: 1723983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1010	101	80-120	
Boron	ug/L	1000	1030	103	80-120	
Calcium	ug/L	10000	10000	100	80-120	
Cobalt	ug/L	1000	998	100	80-120	
Iron	ug/L	10000	10000	100	80-120	
Magnesium	ug/L	10000	9820	98	80-120	
Manganese	ug/L	1000	995	99	80-120	
Nickel	ug/L	1000	1000	100	80-120	
Sodium	ug/L	10000	9930	99	80-120	
Total Hardness by 2340B	ug/L	66200	65400	99	80-120	
Zinc	ug/L	1000	1020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723984 1723985

Parameter	Units	50164664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	0.029 mg/L	1000	1000	1030	1040	100	101	75-125	0	20	
Boron	ug/L	ND	1000	1000	1080	1080	105	105	75-125	0	20	
Calcium	ug/L	148 mg/L	10000	10000	157000	153000	93	50	75-125	3	20	P6
Cobalt	ug/L	ND	1000	1000	966	969	96	97	75-125	0	20	
Iron	ug/L	0.093 mg/L	10000	10000	10100	10100	100	100	75-125	0	20	
Magnesium	ug/L	18.9 mg/L	10000	10000	28600	28200	98	93	75-125	2	20	

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QUALITY CONTROL DATA

Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723984 1723985

Parameter	Units	50164664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	ug/L	ND	1000	1000	994	996	99	99	75-125	0	20	
Nickel	ug/L	ND	1000	1000	967	971	97	97	75-125	0	20	
Sodium	ug/L	4.6 mg/L	10000	10000	14700	14600	101	100	75-125	0	20	
Total Hardness by 2340B	ug/L	448 mg/L	66200	66200	511000	498000	96	77	75-125	3	20	
Zinc	ug/L	ND	1000	1000	1000	1010	100	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374773
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

METHOD BLANK: 1728911
Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	02/27/17 21:28	
Boron	ug/L	ND	100	02/27/17 21:28	
Calcium	ug/L	ND	500	02/27/17 21:28	
Cobalt	ug/L	ND	5.0	02/27/17 21:28	
Iron	ug/L	ND	50.0	02/27/17 21:28	
Magnesium	ug/L	ND	500	02/27/17 21:28	
Manganese	ug/L	ND	5.0	02/27/17 21:28	
Nickel	ug/L	ND	10.0	02/27/17 21:28	
Sodium	ug/L	ND	1000	02/27/17 21:28	
Total Hardness by 2340B	ug/L	ND	1000	02/27/17 21:28	
Zinc	ug/L	ND	20.0	02/27/17 21:28	

LABORATORY CONTROL SAMPLE: 1728912

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	989	99	80-120	
Boron	ug/L	1000	988	99	80-120	
Calcium	ug/L	10000	9880	99	80-120	
Cobalt	ug/L	1000	958	96	80-120	
Iron	ug/L	10000	9620	96	80-120	
Magnesium	ug/L	10000	9420	94	80-120	
Manganese	ug/L	1000	951	95	80-120	
Nickel	ug/L	1000	997	100	80-120	
Sodium	ug/L	10000	9840	98	80-120	
Total Hardness by 2340B	ug/L	66200	63500	96	80-120	
Zinc	ug/L	1000	984	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728913 1728914

Parameter	Units	50164541017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	ug/L	510	1000	1000	1490	1490	98	98	75-125	0	20	
Boron	ug/L	476	1000	1000	1520	1500	104	103	75-125	1	20	
Calcium	ug/L	226000	10000	10000	238000	235000	124	96	75-125	1	20	
Cobalt	ug/L	30.3	1000	1000	947	950	92	92	75-125	0	20	
Iron	ug/L	3150	10000	10000	12500	12500	94	94	75-125	0	20	
Magnesium	ug/L	105000	10000	10000	114000	112000	91	72	75-125	2	20	P1
Manganese	ug/L	77.4	1000	1000	1000	1000	93	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728913 1728914

Parameter	Units	50164541017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	75.8	1000	1000	1020	1010	94	94	75-125	0	20	
Sodium	ug/L	179000	10000	10000	186000	184000	77	47	75-125	2	20	P6
Total Hardness by 2340B	ug/L	997000	66200	66200	1060000	1050000	103	81	75-125	1	20	
	ug/L	ND	1000	1000	967	971	96	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373328 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

METHOD BLANK: 1722680 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	02/14/17 13:14	
Arsenic	ug/L	ND	5.0	02/14/17 13:14	
Beryllium	ug/L	ND	2.0	02/14/17 13:14	
Cadmium	ug/L	ND	0.20	02/14/17 13:14	
Chromium	ug/L	ND	5.0	02/14/17 13:14	
Copper	ug/L	ND	5.0	02/14/17 13:14	
Lead	ug/L	ND	5.0	02/14/17 13:14	
Selenium	ug/L	ND	5.0	02/14/17 13:14	
Silver	ug/L	ND	5.0	02/14/17 13:14	
Thallium	ug/L	ND	2.0	02/14/17 13:14	
Vanadium	ug/L	ND	10.0	02/14/17 13:14	N2

LABORATORY CONTROL SAMPLE: 1722681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	44.8	112	80-120	
Arsenic	ug/L	40	39.7	99	80-120	
Beryllium	ug/L	40	42.3	106	80-120	
Cadmium	ug/L	40	40.6	102	80-120	
Chromium	ug/L	40	41.5	104	80-120	
Copper	ug/L	40	39.3	98	80-120	
Lead	ug/L	40	41.9	105	80-120	
Selenium	ug/L	40	38.3	96	80-120	
Silver	ug/L	40	40.3	101	80-120	
Thallium	ug/L	40	42.6	107	80-120	
Vanadium	ug/L	40	40.0	100	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722682 1722683

Parameter	Units	50164419020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Antimony	ug/L	ND	40	40	46.6	45.7	116	114	75-125	2	20
Arsenic	ug/L	ND	40	40	41.4	43.3	99	104	75-125	5	20
Beryllium	ug/L	ND	40	40	47.2	45.1	118	113	75-125	5	20
Cadmium	ug/L	ND	40	40	41.0	39.8	102	99	75-125	3	20
Chromium	ug/L	17.7	40	40	52.8	55.3	88	94	75-125	5	20
Copper	ug/L	5.8	40	40	43.8	43.3	95	94	75-125	1	20
Lead	ug/L	ND	40	40	41.9	41.0	105	102	75-125	2	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

SPIKE & MATRIX SPIKE DUPLICATE: 1722682 1722683

Parameter	Units	50164419020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
[illegible]um	ug/L	8.1	40	40	48.3	48.6	101	101	75-125	1	20	
[illegible]	ug/L	ND	40	40	38.8	38.0	97	95	75-125	2	20	
[illegible]dium	ug/L	ND	40	40	41.7	40.9	104	102	75-125	2	20	
Vanadium	ug/L	ND	40	40	45.3J	47.6J	99	105	75-125	5	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373525 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1723695 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	02/14/17 17:29	
Arsenic	ug/L	ND	5.0	02/14/17 17:29	
Beryllium	ug/L	ND	2.0	02/14/17 17:29	
Cadmium	ug/L	ND	0.20	02/14/17 17:29	
Chromium	ug/L	ND	5.0	02/14/17 17:29	
Copper	ug/L	ND	5.0	02/15/17 12:49	
Lead	ug/L	ND	5.0	02/14/17 17:29	
Selenium	ug/L	ND	5.0	02/14/17 17:29	
Silver	ug/L	ND	5.0	02/14/17 17:29	
Thallium	ug/L	ND	2.0	02/14/17 17:29	
Vanadium	ug/L	ND	10.0	02/14/17 17:29	N2

LABORATORY CONTROL SAMPLE: 1723696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.1	105	80-120	
Arsenic	ug/L	40	40.9	102	80-120	
Beryllium	ug/L	40	39.6	99	80-120	
Cadmium	ug/L	40	38.0	95	80-120	
Chromium	ug/L	40	42.0	105	80-120	
Copper	ug/L	40	40.8	102	80-120	
Lead	ug/L	40	39.3	98	80-120	
Selenium	ug/L	40	40.3	101	80-120	
Silver	ug/L	40	38.3	96	80-120	
Thallium	ug/L	40	39.8	99	80-120	
Vanadium	ug/L	40	41.3	103	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723697 1723698

Parameter	Units	50164702004 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	42.2	39.4	105	98	75-125	7	20	
Arsenic	ug/L	ND	40	40	40.8	37.8	101	94	75-125	8	20	
Beryllium	ug/L	ND	40	40	39.8	36.8	99	92	75-125	8	20	
Cadmium	ug/L	ND	40	40	36.8	34.2	92	85	75-125	7	20	
Chromium	ug/L	ND	40	40	42.2	39.0	101	93	75-125	8	20	
Copper	ug/L	ND	40	40	37.5	35.2	88	82	75-125	6	20	
Lead	ug/L	ND	40	40	39.4	36.8	97	90	75-125	7	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1723697 1723698

Parameter	Units	50164702004 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	38.9	36.7	97	92	75-125	6	20	
Silver	ug/L	ND	40	40	36.2	33.7	91	84	75-125	7	20	
Thallium	ug/L	ND	40	40	40.0	37.6	100	94	75-125	6	20	
Vanadium	ug/L	ND	40	40	43.2	40.3	103	96	75-125	7	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374618 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

METHOD BLANK: 1728348 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	02/22/17 15:54	
Arsenic	ug/L	ND	5.0	02/22/17 15:54	
Beryllium	ug/L	ND	2.0	02/22/17 15:54	
Cadmium	ug/L	ND	0.20	02/22/17 15:54	
Chromium	ug/L	ND	5.0	02/22/17 15:54	
Copper	ug/L	ND	5.0	02/22/17 15:54	
Lead	ug/L	ND	5.0	02/22/17 15:54	
Selenium	ug/L	ND	5.0	02/22/17 15:54	
Silver	ug/L	ND	5.0	02/22/17 15:54	
Thallium	ug/L	ND	2.0	02/22/17 15:54	
Vanadium	ug/L	ND	10.0	02/22/17 15:54	N2

LABORATORY CONTROL SAMPLE: 1728349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	44.7	112	80-120	
Arsenic	ug/L	40	40.4	101	80-120	
Beryllium	ug/L	40	39.2	98	80-120	
Cadmium	ug/L	40	40.2	100	80-120	
Chromium	ug/L	40	41.8	104	80-120	
Copper	ug/L	40	39.9	100	80-120	
Lead	ug/L	40	40.9	102	80-120	
Selenium	ug/L	40	39.4	99	80-120	
Silver	ug/L	40	40.2	100	80-120	
Thallium	ug/L	40	41.4	103	80-120	
Vanadium	ug/L	40	40.8	102	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728350 1728351

Parameter	Units	50164541016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qua
Antimony	ug/L	ND	40	40	46.7	47.0	116	117	75-125	1	20	
Arsenic	ug/L	6.2	40	40	46.3	46.8	100	102	75-125	1	20	
Beryllium	ug/L	ND	40	40	40.8	40.9	102	102	75-125	0	20	
Cadmium	ug/L	ND	40	40	39.7	39.9	99	100	75-125	0	20	
Chromium	ug/L	ND	40	40	40.5	41.4	99	101	75-125	2	20	
Copper	ug/L	ND	40	40	36.6	36.6	86	86	75-125	0	20	
Lead	ug/L	ND	40	40	41.8	42.3	104	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

SPIKE & MATRIX SPIKE DUPLICATE: 1728350 1728351

Parameter	Units	50164541016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
[illegible]nium	ug/L	ND	40	40	38.6	39.1	96	97	75-125	1	20	
[illegible]	ug/L	ND	40	40	39.0	38.9	97	97	75-125	0	20	
[illegible]ssium	ug/L	ND	40	40	42.7	43.2	107	108	75-125	1	20	
[illegible]nadium	ug/L	ND	40	40	41.0	41.8	101	103	75-125	2	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373346 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541009

METHOD BLANK: 1722757 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,1-Dichloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,1-Dichloroethene	ug/L	ND	5.0	02/10/17 11:22	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/10/17 11:22	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/10/17 11:22	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/10/17 11:22	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/10/17 11:22	
1,2-Dichloroethane	ug/L	ND	5.0	02/10/17 11:22	
1,2-Dichloropropane	ug/L	ND	5.0	02/10/17 11:22	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/10/17 11:22	
2-Butanone (MEK)	ug/L	ND	10.0	02/10/17 11:22	
2-Hexanone	ug/L	ND	10.0	02/10/17 11:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/10/17 11:22	
Acetone	ug/L	ND	10.0	02/10/17 11:22	
Acrylonitrile	ug/L	ND	100	02/10/17 11:22	
Benzene	ug/L	ND	5.0	02/10/17 11:22	
Bromochloromethane	ug/L	ND	5.0	02/10/17 11:22	
Bromodichloromethane	ug/L	ND	5.0	02/10/17 11:22	
Bromoform	ug/L	ND	5.0	02/10/17 11:22	
Bromomethane	ug/L	ND	10.0	02/10/17 11:22	
Carbon disulfide	ug/L	ND	10.0	02/10/17 11:22	
Carbon tetrachloride	ug/L	ND	5.0	02/10/17 11:22	
Chlorobenzene	ug/L	ND	5.0	02/10/17 11:22	
Chloroethane	ug/L	ND	10.0	02/10/17 11:22	
Chloroform	ug/L	ND	5.0	02/10/17 11:22	
Chloromethane	ug/L	ND	10.0	02/10/17 11:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/10/17 11:22	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/10/17 11:22	
Dibromochloromethane	ug/L	ND	5.0	02/10/17 11:22	
Dibromomethane	ug/L	ND	10.0	02/10/17 11:22	
Ethylbenzene	ug/L	ND	5.0	02/10/17 11:22	
Iodomethane	ug/L	ND	5.0	02/10/17 11:22	
Methylene Chloride	ug/L	ND	5.0	02/10/17 11:22	
Styrene	ug/L	ND	5.0	02/10/17 11:22	
Tetrachloroethene	ug/L	ND	5.0	02/10/17 11:22	
Toluene	ug/L	ND	5.0	02/10/17 11:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/10/17 11:22	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

METHOD BLANK: 1722757 Matrix: Water

Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
...ns 1,3-Dichloropropene	ug/L	ND	5.0	02/10/17 11:22	
...s 1,4-Dichloro-2-butene	ug/L	ND	10.0	02/10/17 11:22	
...hloroethene	ug/L	ND	5.0	02/10/17 11:22	
...hlorofluoromethane	ug/L	ND	10.0	02/10/17 11:22	
...yl acetate	ug/L	ND	10.0	02/10/17 11:22	
...chloride	ug/L	ND	2.0	02/10/17 11:22	
... (Total)	ug/L	ND	5.0	02/10/17 11:22	
...fluorobenzene (S)	%.	91	79-116	02/10/17 11:22	
...fluoromethane (S)	%.	87	84-118	02/10/17 11:22	
...-d8 (S)	%.	92	86-110	02/10/17 11:22	

...RATORY CONTROL SAMPLE: 1722758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
...2-Tetrachloroethane	ug/L	50	49.5	99	74-130	
...1,1-Trichloroethane	ug/L	50	49.3	99	72-123	
...1,2,2-Tetrachloroethane	ug/L	50	53.7	107	72-124	
...1,2-Trichloroethane	ug/L	50	53.4	107	75-125	
...-Dichloroethane	ug/L	50	53.3	107	70-120	
...-Dichloroethene	ug/L	50	46.9	94	69-127	
...2,3-Trichloropropane	ug/L	50	55.3	111	77-127	
...2-Dibromo-3-chloropropane	ug/L	50	55.5	111	67-123	
...2-Dibromoethane (EDB)	ug/L	50	52.2	104	76-125	
...2-Dichlorobenzene	ug/L	50	48.0	96	77-122	
...-Dichloroethane	ug/L	50	52.9	106	70-123	
...Dichloropropane	ug/L	50	58.2	116	77-124	
...-Dichlorobenzene	ug/L	50	46.2	92	75-117	
...Butanone (MEK)	ug/L	250	274	110	60-135	
...Hexanone	ug/L	250	254	102	65-139	
...4-Methyl-2-pentanone (MIBK)	ug/L	250	259	104	66-134	
...one	ug/L	250	287	115	47-144	
...rile	ug/L	200	201	101	64-133	
...	ug/L	50	50.9	102	76-122	
...chloromethane	ug/L	50	60.8	122	74-134	
...ichloromethane	ug/L	50	52.1	104	71-124	
...form	ug/L	50	47.1	94	60-125	
...methane	ug/L	50	42.0	84	23-194	
...n disulfide	ug/L	50	49.5	99	63-130	
...n tetrachloride	ug/L	50	51.0	102	73-133	
...obenzene	ug/L	50	46.4	93	76-118	
...oroethane	ug/L	50	48.8	98	50-147	
...chloroform	ug/L	50	49.9	100	70-119	
...chloromethane	ug/L	50	53.8	108	52-136	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

LABORATORY CONTROL SAMPLE: 1722758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	ug/L	50	50.4	101	74-120	
cis-1,3-Dichloropropene	ug/L	50	60.8	122	71-134	
Dibromochloromethane	ug/L	50	49.4	99	73-127	
Dibromomethane	ug/L	50	48.3	97	75-124	
Ethylbenzene	ug/L	50	51.4	103	75-123	
Iodomethane	ug/L	100	73.4	73	56-142	
Methylene Chloride	ug/L	50	43.3	87	66-130	
Styrene	ug/L	50	51.1	102	78-128	
Tetrachloroethene	ug/L	50	45.5	91	69-119	
Toluene	ug/L	50	50.6	101	74-122	
trans-1,2-Dichloroethene	ug/L	50	47.9	96	72-122	
trans-1,3-Dichloropropene	ug/L	50	48.7	97	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	180	90	39-153	
Trichloroethene	ug/L	50	50.2	100	75-123	
Trichlorofluoromethane	ug/L	50	44.3	89	58-148	
Vinyl acetate	ug/L	200	199	100	67-154	
Vinyl chloride	ug/L	50	52.0	104	61-147	
Xylene (Total)	ug/L	150	151	101	75-127	
4-Bromofluorobenzene (S)	%.			97	79-116	
Dibromofluoromethane (S)	%.			86	84-118	
Toluene-d8 (S)	%.			92	86-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722759 1722760

Parameter	Units	50164601002 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	58.2	50.2	116	100	44-142	15	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	61.0	52.4	122	105	51-140	15	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	62.8	51.8	126	104	49-138	19	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	64.5	54.0	129	108	51-138	18	20	
1,1-Dichloroethane	ug/L	ND	50	50	61.7	57.0	123	114	48-137	8	20	
1,1-Dichloroethene	ug/L	ND	50	50	59.1	51.3	118	103	51-144	14	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	64.2	53.3	128	107	51-139	19	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	62.2	49.9	124	100	37-127	22	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	62.8	52.5	126	105	52-134	18	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.9	46.1	108	92	38-138	16	20	
1,2-Dichloroethane	ug/L	ND	50	50	64.7	54.5	129	109	44-144	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	73.3	62.5	147	125	56-138	16	20	M1
1,4-Dichlorobenzene	ug/L	ND	50	50	51.5	44.2	103	88	34-134	15	20	
2-Butanone (MEK)	ug/L	ND	250	250	314	265	126	106	44-142	17	20	
2-Hexanone	ug/L	ND	250	250	294	248	118	99	43-150	17	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	298	253	119	101	46-143	16	20	
Acetone	ug/L	ND	250	250	347	292	139	117	33-150	17	20	
Acrylonitrile	ug/L	ND	200	200	240	198	120	99	47-143	19	20	

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QUALITY CONTROL DATA

ject: Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722759 1722760

Parameter	Units	50164601002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
ene	ug/L	ND	50	50	62.6	53.4	125	107	51-140	16	20	
ochloromethane	ug/L	ND	50	50	73.9	62.2	148	124	53-148	17	20	
odichloromethane	ug/L	ND	50	50	63.2	53.5	126	107	46-137	17	20	
oform	ug/L	ND	50	50	52.5	43.2	105	86	36-127	19	20	
omomethane	ug/L	ND	50	50	46.9	47.6	94	95	10-188	1	20	
rbon disulfide	ug/L	ND	50	50	62.8	54.1	126	108	35-148	15	20	
rbon tetrachloride	ug/L	ND	50	50	63.6	53.9	127	108	45-151	16	20	
lorobenzene	ug/L	ND	50	50	54.9	47.2	110	94	45-138	15	20	
loroethane	ug/L	ND	50	50	63.2	53.3	126	107	33-164	17	20	
hloroform	ug/L	ND	50	50	61.1	52.1	122	104	50-135	16	20	
Chloromethane	ug/L	ND	50	50	70.4	58.6	141	117	38-146	18	20	
s 1 2-Dichloroethene	ug/L	ND	50	50	62.1	54.2	124	108	43-144	14	20	
s 1 3-Dichloropropene	ug/L	ND	50	50	70.0	61.4	140	123	42-136	13	20	M1
romochloromethane	ug/L	ND	50	50	57.8	48.9	116	98	45-136	17	20	
romomethane	ug/L	ND	50	50	59.2	48.9	118	98	51-139	19	20	
ylbenzene	ug/L	ND	50	50	60.1	52.7	120	105	36-146	13	20	
Xylenes	ug/L	ND	100	100	75.4	85.1	75	85	28-153	12	20	
thylene Chloride	ug/L	ND	50	50	52.5	45.2	105	90	48-140	15	20	
ene	ug/L	ND	50	50	59.6	51.9	119	104	31-148	14	20	
loroethene	ug/L	ND	50	50	53.4	47.1	107	94	38-139	12	20	
	ug/L	ND	50	50	60.2	52.6	120	105	44-140	13	20	
Dichloroethene	ug/L	ND	50	50	59.2	51.6	118	103	50-139	14	20	
Dichloropropene	ug/L	ND	50	50	55.9	48.5	112	97	37-138	14	20	
4 Dichloro-2-butene	ug/L	ND	200	200	209	172	105	86	10-157	20	20	
roethene	ug/L	ND	50	50	61.5	53.2	123	106	44-146	14	20	
rofluoromethane	ug/L	ND	50	50	58.0	49.8	116	100	41-164	15	20	
cetate	ug/L	ND	200	200	225	190	112	95	15-146	17	20	
hloride	ug/L	ND	50	50	67.4	58.9	135	118	43-166	13	20	
ne (Total)	ug/L	ND	150	150	176	154	117	103	35-146	13	20	
romofluorobenzene (S)	%.						97	98	79-116			
bromofluoromethane (S)	%.						86	87	84-118			
luene-d8 (S)	%.						91	92	86-110			

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373681 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013, 50164541014

METHOD BLANK: 1724166 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013, 50164541014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,1-Dichloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,1-Dichloroethene	ug/L	ND	5.0	02/14/17 10:38	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/14/17 10:38	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/14/17 10:38	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/14/17 10:38	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/14/17 10:38	
1,2-Dichloroethane	ug/L	ND	5.0	02/14/17 10:38	
1,2-Dichloropropane	ug/L	ND	5.0	02/14/17 10:38	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/14/17 10:38	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/17 10:38	
2-Hexanone	ug/L	ND	10.0	02/14/17 10:38	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/17 10:38	
Acetone	ug/L	ND	10.0	02/14/17 10:38	
Acrylonitrile	ug/L	ND	100	02/14/17 10:38	
Benzene	ug/L	ND	5.0	02/14/17 10:38	
Bromochloromethane	ug/L	ND	5.0	02/14/17 10:38	
Bromodichloromethane	ug/L	ND	5.0	02/14/17 10:38	
Bromoform	ug/L	ND	5.0	02/14/17 10:38	
Bromomethane	ug/L	ND	10.0	02/14/17 10:38	
Carbon disulfide	ug/L	ND	10.0	02/14/17 10:38	
Carbon tetrachloride	ug/L	ND	5.0	02/14/17 10:38	
Chlorobenzene	ug/L	ND	5.0	02/14/17 10:38	
Chloroethane	ug/L	ND	10.0	02/14/17 10:38	
Chloroform	ug/L	ND	5.0	02/14/17 10:38	
Chloromethane	ug/L	ND	10.0	02/14/17 10:38	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/14/17 10:38	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/14/17 10:38	
Dibromochloromethane	ug/L	ND	5.0	02/14/17 10:38	
Dibromomethane	ug/L	ND	10.0	02/14/17 10:38	
Ethylbenzene	ug/L	ND	5.0	02/14/17 10:38	
Iodomethane	ug/L	ND	5.0	02/14/17 10:38	
Methylene Chloride	ug/L	ND	5.0	02/14/17 10:38	
Styrene	ug/L	ND	5.0	02/14/17 10:38	
Tetrachloroethene	ug/L	ND	5.0	02/14/17 10:38	
Toluene	ug/L	ND	5.0	02/14/17 10:38	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/14/17 10:38	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/14/17 10:38	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

METHOD BLANK: 1724166 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013, 50164541014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
...s 1,4-Dichloro-2-butene	ug/L	ND	10.0	02/14/17 10:38	
...loroethene	ug/L	ND	5.0	02/14/17 10:38	
...lorofluoromethane	ug/L	ND	10.0	02/14/17 10:38	
...yl acetate	ug/L	ND	10.0	02/14/17 10:38	
...yl chloride	ug/L	ND	2.0	02/14/17 10:38	
...ne (Total)	ug/L	ND	5.0	02/14/17 10:38	
...nofluorobenzene (S)	%.	92	79-116	02/14/17 10:38	
...fluoromethane (S)	%.	86	84-118	02/14/17 10:38	
...8 (S)	%.	92	86-110	02/14/17 10:38	

...RATORY CONTROL SAMPLE: 1724167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
...2 Tetrachloroethane	ug/L	50	50.8	102	74-130	
... Trichloroethane	ug/L	50	51.4	103	72-123	
...2,2-Tetrachloroethane	ug/L	50	54.6	109	72-124	
...2-Trichloroethane	ug/L	50	55.2	110	75-125	
... Dichloroethane	ug/L	50	52.9	106	70-120	
... Dichloroethene	ug/L	50	48.2	96	69-127	
...2,3-Trichloropropane	ug/L	50	55.6	111	77-127	
...2 Dibromo-3-chloropropane	ug/L	50	54.9	110	67-123	
...2-Dibromoethane (EDB)	ug/L	50	53.9	108	76-125	
...2 Dichlorobenzene	ug/L	50	49.3	99	77-122	
...2 Dichloroethane	ug/L	50	54.8	110	70-123	
... Dichloropropane	ug/L	50	62.1	124	77-124	
... Dichlorobenzene	ug/L	50	46.9	94	75-117	
...tanone (MEK)	ug/L	250	289	116	60-135	
...exanone	ug/L	250	265	106	65-139	
...Methyl-2-pentanone (MIBK)	ug/L	250	269	108	66-134	
...tone	ug/L	250	317	127	47-144	
...nitrile	ug/L	200	212	106	64-133	
...	ug/L	50	52.8	106	76-122	
...loromethane	ug/L	50	62.1	124	74-134	
...hloromethane	ug/L	50	54.3	109	71-124	
...form	ug/L	50	47.0	94	60-125	
...omethane	ug/L	50	40.2	80	23-194	
... disulfide	ug/L	50	50.8	102	63-130	
... tetrachloride	ug/L	50	52.1	104	73-133	
...obenzene	ug/L	50	47.5	95	76-118	
...ethane	ug/L	50	49.6	99	50-147	
...oroform	ug/L	50	51.8	104	70-119	
...loromethane	ug/L	50	52.7	105	52-136	
...s 1,2-Dichloroethene	ug/L	50	52.9	106	74-120	
...s 1,3-Dichloropropene	ug/L	50	62.7	125	71-134	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

LABORATORY CONTROL SAMPLE: 1724167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.9	102	73-127	
Dibromomethane	ug/L	50	50.9	102	75-124	
Ethylbenzene	ug/L	50	53.0	106	75-123	
Iodomethane	ug/L	100	73.7	74	56-142	
Methylene Chloride	ug/L	50	44.5	89	66-130	
Styrene	ug/L	50	52.5	105	78-128	
Tetrachloroethene	ug/L	50	47.2	94	69-119	
Toluene	ug/L	50	51.8	104	74-122	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	72-122	
trans-1,3-Dichloropropene	ug/L	50	50.9	102	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	184	92	39-153	
Trichloroethene	ug/L	50	51.2	102	75-123	
Trichlorofluoromethane	ug/L	50	44.3	89	58-148	
Vinyl acetate	ug/L	200	206	103	67-154	
Vinyl chloride	ug/L	50	51.6	103	61-147	
Xylene (Total)	ug/L	150	156	104	75-127	
4-Bromofluorobenzene (S)	%.			98	79-116	
Dibromofluoromethane (S)	%.			86	84-118	
Toluene-d8 (S)	%.			92	86-110	

MATRIX SPIKE SAMPLE: 1724168

Parameter	Units	50164613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	45.3	91	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	48.0	96	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	47.7	95	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	48.9	98	51-138	
1,1-Dichloroethane	ug/L	ND	50	52.2	104	48-137	
1,1-Dichloroethene	ug/L	ND	50	47.2	94	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	49.1	98	51-139	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	48.9	98	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	48.3	97	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	42.1	84	38-138	
1,2-Dichloroethane	ug/L	ND	50	49.2	98	44-144	
1,2-Dichloropropane	ug/L	ND	50	56.6	113	56-138	
1,4-Dichlorobenzene	ug/L	ND	50	40.0	80	34-134	
2-Butanone (MEK)	ug/L	ND	250	247	99	44-142	
2-Hexanone	ug/L	ND	250	236	94	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	238	95	46-143	
Acetone	ug/L	ND	250	270	108	33-150	
Acrylonitrile	ug/L	ND	200	187	94	47-143	
Benzene	ug/L	ND	50	48.7	97	51-140	
Bromochloromethane	ug/L	ND	50	56.1	112	53-148	
Bromodichloromethane	ug/L	ND	50	49.0	98	46-137	
Bromoform	ug/L	ND	50	39.9	80	36-127	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Project No.: 50164541

SPIKE SAMPLE: 1724168

Parameter	Units	50164613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
romethane	ug/L	ND	50	33.8	68	10-188	
n disulfide	ug/L	ND	50	49.7	99	35-148	
n tetrachloride	ug/L	ND	50	49.4	99	45-151	
obenzene	ug/L	ND	50	43.3	87	45-138	
oroethane	ug/L	ND	50	47.5	95	33-164	
oroform	ug/L	ND	50	48.1	96	50-135	
hloromethane	ug/L	ND	50	49.6	99	38-146	
s 1,2-Dichloroethene	ug/L	ND	50	48.9	98	43-144	
s 1,3-Dichloropropene	ug/L	ND	50	55.9	112	42-136	
bromochloromethane	ug/L	ND	50	44.3	89	45-136	
bromomethane	ug/L	ND	50	44.6	89	51-139	
thylbenzene	ug/L	ND	50	48.2	96	36-146	
odomethane	ug/L	ND	100	60.7	61	28-153	
Methylene Chloride	ug/L	ND	50	41.1	82	48-140	
Styrene	ug/L	ND	50	47.2	94	31-148	
trachloroethene	ug/L	ND	50	43.3	87	38-139	
luene	ug/L	ND	50	48.1	96	44-140	
s 1,2-Dichloroethene	ug/L	ND	50	46.9	94	50-139	
s 1,3-Dichloropropene	ug/L	ND	50	45.1	90	37-138	
s 1,4-Dichloro-2-butene	ug/L	ND	200	166	83	10-157	
loroethene	ug/L	ND	50	47.9	96	44-146	
rofluoromethane	ug/L	ND	50	44.5	89	41-164	
etate	ug/L	ND	200	180	90	15-146	
ride	ug/L	ND	50	50.2	100	43-166	
otal)	ug/L	ND	150	141	94	35-146	
nofluorobenzene (S)	%.				98	79-116	
nofluoromethane (S)	%.				86	84-118	
ne-d8 (S)	%.				92	86-110	

PLE DUPLICATE: 1724169

Parameter	Units	50164614001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Tetrachloroethane	ug/L	ND	ND		20	
1 Trichloroethane	ug/L	ND	ND		20	
2,2-Tetrachloroethane	ug/L	ND	ND		20	
2-Trichloroethane	ug/L	ND	ND		20	
Dichloroethane	ug/L	1.5J	1.5J		20	
-Dichloroethene	ug/L	ND	ND		20	
3-Trichloropropane	ug/L	ND	ND		20	
Dibromo-3-chloropropane	ug/L	ND	ND		20	
Dibromoethane (EDB)	ug/L	ND	ND		20	
Dichlorobenzene	ug/L	ND	ND		20	
Dichloroethane	ug/L	ND	ND		20	
Dichloropropane	ug/L	ND	ND		20	
Dichlorobenzene	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

SAMPLE DUPLICATE: 1724169

Parameter	Units	50164614001 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	0.41J	.37J		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	0.67J	.62J		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	93	91	2		
Dibromofluoromethane (S)	%.	87	87	0		
Toluene-d8 (S)	%.	92	91	1		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374800 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018, 50164541019

METHOD BLANK: 1729044 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018, 50164541019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/17 15:18	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/22/17 15:18	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/22/17 15:18	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/22/17 15:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/17 15:18	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/17 15:18	
1,2-Dichloropropane	ug/L	ND	5.0	02/22/17 15:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/22/17 15:18	
2-Butanone (MEK)	ug/L	ND	10.0	02/22/17 15:18	
2-Hexanone	ug/L	ND	10.0	02/22/17 15:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/22/17 15:18	
Acetone	ug/L	ND	10.0	02/22/17 15:18	
Acrylonitrile	ug/L	ND	100	02/22/17 15:18	
Benzene	ug/L	ND	5.0	02/22/17 15:18	
Bromochloromethane	ug/L	ND	5.0	02/22/17 15:18	
Bromodichloromethane	ug/L	ND	5.0	02/22/17 15:18	
Bromoform	ug/L	ND	5.0	02/22/17 15:18	
Bromomethane	ug/L	ND	10.0	02/22/17 15:18	
Carbon disulfide	ug/L	ND	10.0	02/22/17 15:18	
Carbon tetrachloride	ug/L	ND	5.0	02/22/17 15:18	
Chlorobenzene	ug/L	ND	5.0	02/22/17 15:18	
Chloroethane	ug/L	ND	10.0	02/22/17 15:18	
Chloroform	ug/L	ND	5.0	02/22/17 15:18	
Chloromethane	ug/L	ND	10.0	02/22/17 15:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/17 15:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/22/17 15:18	
Dibromochloromethane	ug/L	ND	5.0	02/22/17 15:18	
Dibromomethane	ug/L	ND	5.0	02/22/17 15:18	
Dichlorodifluoromethane	ug/L	ND	5.0	02/22/17 15:18	
Ethylbenzene	ug/L	ND	5.0	02/22/17 15:18	
Methylene Chloride	ug/L	ND	5.0	02/22/17 15:18	
Styrene	ug/L	ND	5.0	02/22/17 15:18	
Tetrachloroethene	ug/L	ND	5.0	02/22/17 15:18	
Toluene	ug/L	ND	5.0	02/22/17 15:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/17 15:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/22/17 15:18	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

METHOD BLANK: 1729044 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018, 50164541019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	02/22/17 15:18	
Trichloroethene	ug/L	ND	5.0	02/22/17 15:18	
Trichlorofluoromethane	ug/L	ND	10.0	02/22/17 15:18	
Vinyl acetate	ug/L	ND	10.0	02/22/17 15:18	
Vinyl chloride	ug/L	ND	2.0	02/22/17 15:18	
Xylene (Total)	ug/L	ND	5.0	02/22/17 15:18	
4-Bromofluorobenzene (S)	%.	95	79-116	02/22/17 15:18	
Dibromofluoromethane (S)	%.	94	84-118	02/22/17 15:18	
Toluene-d8 (S)	%.	105	86-110	02/22/17 15:18	

LABORATORY CONTROL SAMPLE: 1729045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.4	95	74-130	
1,1,1-Trichloroethane	ug/L	50	43.3	87	72-123	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	72-124	
1,1,2-Trichloroethane	ug/L	50	47.9	96	75-125	
1,1-Dichloroethane	ug/L	50	41.9	84	70-120	
1,1-Dichloroethene	ug/L	50	40.8	82	69-127	
1,2,3-Trichloropropane	ug/L	50	50.1	100	77-127	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	67-123	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	101	76-125	
1,2-Dichlorobenzene	ug/L	50	50.3	101	77-122	
1,2-Dichloroethane	ug/L	50	44.2	88	70-123	
1,2-Dichloropropane	ug/L	50	43.1	86	77-124	
1,4-Dichlorobenzene	ug/L	50	48.4	97	75-117	
2-Butanone (MEK)	ug/L	250	213	85	60-135	
2-Hexanone	ug/L	250	231	92	65-139	
4-Methyl-2-pentanone (MIBK)	ug/L	250	228	91	66-134	
Acetone	ug/L	250	213	85	47-144	
Acrylonitrile	ug/L	200	165	83	64-133	
Benzene	ug/L	50	40.5	81	76-122	
Bromochloromethane	ug/L	50	44.1	88	74-134	
Bromodichloromethane	ug/L	50	44.6	89	71-124	
Bromoform	ug/L	50	47.6	95	60-125	
Bromomethane	ug/L	50	41.2	82	23-194	
Carbon disulfide	ug/L	50	44.9	90	63-130	
Carbon tetrachloride	ug/L	50	44.9	90	73-133	
Chlorobenzene	ug/L	50	46.7	93	76-118	
Chloroethane	ug/L	50	46.3	93	50-147	
Chloroform	ug/L	50	44.8	90	70-119	
Chloromethane	ug/L	50	36.2	72	52-136	
cis-1,2-Dichloroethene	ug/L	50	43.5	87	74-120	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	71-134	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

LABORATORY CONTROL SAMPLE: 1729045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromochloromethane	ug/L	50	51.1	102	73-127	
Bromomethane	ug/L	50	44.3	89	75-124	
Chlorobenzene	ug/L	50	49.5	99	75-123	
Chloroethane	ug/L	100	59.0	59	56-142	
Methylene Chloride	ug/L	50	37.8	76	66-130	
Styrene	ug/L	50	50.1	100	78-128	
Tetrachloroethene	ug/L	50	50.1	100	69-119	
Toluene	ug/L	50	48.6	97	74-122	
trans-1,2-Dichloroethene	ug/L	50	43.7	87	72-122	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	66-135	
trans-1,4-Dichloro-2-butene	ug/L	200	162	81	39-153	
Trichloroethene	ug/L	50	43.4	87	75-123	
Trichlorofluoromethane	ug/L	50	54.6	109	58-148	
Vinyl acetate	ug/L	200	210	105	67-154	
Vinyl chloride	ug/L	50	50.8	102	61-147	
Xylene (Total)	ug/L	150	150	100	75-127	
4-Bromofluorobenzene (S)	%.			99	79-116	
Dibromofluoromethane (S)	%.			97	84-118	
Toluene-d8 (S)	%.			102	86-110	

MATRIX SPIKE SAMPLE: 1729046

Parameter	Units	50164541018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	47.0	94	44-142	
1,1,1-Trichloroethane	ug/L	ND	50	44.5	89	51-140	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	43.3	87	49-138	
1,1,2-Trichloroethane	ug/L	ND	50	45.0	90	51-138	
1,1-Dichloroethane	ug/L	ND	50	41.4	83	48-137	
1,1-Dichloroethene	ug/L	ND	50	43.3	87	51-144	
1,2,3-Trichloropropane	ug/L	ND	50	46.1	92	51-139	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	42.2	84	37-127	
1,2-Dibromoethane (EDB)	ug/L	ND	50	46.4	93	52-134	
1,2-Dichlorobenzene	ug/L	ND	50	46.7	92	38-138	
1,2-Dichloroethane	ug/L	ND	50	42.7	85	44-144	
1,2-Dichloropropane	ug/L	ND	50	40.1	80	56-138	
1,4-Dichlorobenzene	ug/L	5.6	50	49.3	87	34-134	
2-Butanone (MEK)	ug/L	ND	250	192	77	44-142	
2-Hexanone	ug/L	ND	250	219	88	43-150	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	212	85	46-143	
Acetone	ug/L	ND	250	185	74	33-150	
Acrylonitrile	ug/L	ND	200	155	77	47-143	
Benzene	ug/L	ND	50	42.3	82	51-140	
Bromochloromethane	ug/L	ND	50	41.8	84	53-148	
Bromodichloromethane	ug/L	ND	50	42.4	85	46-137	
Bromoform	ug/L	ND	50	42.6	85	36-127	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

MATRIX SPIKE SAMPLE: 1729046

Parameter	Units	50164541018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	50	32.1	64	10-188	
Carbon disulfide	ug/L	ND	50	44.9	90	35-148	
Carbon tetrachloride	ug/L	ND	50	46.5	93	45-151	
Chlorobenzene	ug/L	34.9	50	81.0	92	45-138	
Chloroethane	ug/L	ND	50	47.5	95	33-164	
Chloroform	ug/L	ND	50	43.7	87	50-135	
Chloromethane	ug/L	ND	50	36.7	73	38-146	
cis-1,2-Dichloroethene	ug/L	ND	50	43.2	86	43-144	
cis-1,3-Dichloropropene	ug/L	ND	50	43.7	87	42-136	
Dibromochloromethane	ug/L	ND	50	46.9	94	45-136	
Dibromomethane	ug/L	ND	50	42.0	84	51-139	
Ethylbenzene	ug/L	ND	50	48.2	96	36-146	
Iodomethane	ug/L	ND	100	40.9	41	28-153	
Methylene Chloride	ug/L	ND	50	35.6	71	48-140	
Styrene	ug/L	ND	50	48.4	97	31-148	
Tetrachloroethene	ug/L	ND	50	48.7	97	38-139	
Toluene	ug/L	ND	50	47.6	95	44-140	
trans-1,2-Dichloroethene	ug/L	ND	50	43.4	87	50-139	
trans-1,3-Dichloropropene	ug/L	ND	50	44.0	88	37-138	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	178	89	10-157	
Trichloroethene	ug/L	ND	50	41.9	84	44-146	
Trichlorofluoromethane	ug/L	ND	50	58.5	117	41-164	
Vinyl acetate	ug/L	ND	200	154	77	15-146	
Vinyl chloride	ug/L	ND	50	52.6	105	43-166	
Xylene (Total)	ug/L	ND	150	148	99	35-146	
4-Bromofluorobenzene (S)	%.				102	79-116	
Dibromofluoromethane (S)	%.				99	84-118	
Toluene-d8 (S)	%.				104	86-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373283 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004

METHOD BLANK: 1722554 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/10/17 06:56	

LABORATORY CONTROL SAMPLE: 1722555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	289	96	80-120	

SAMPLE DUPLICATE: 1722556

Parameter	Units	50164524001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	537	553	3	10	

SAMPLE DUPLICATE: 1722557

Parameter	Units	50164550002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	348	344	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373432 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50164541005, 50164541007, 50164541008

METHOD BLANK: 1723341 Matrix: Water
Associated Lab Samples: 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/11/17 11:50	

LABORATORY CONTROL SAMPLE: 1723342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

SAMPLE DUPLICATE: 1723343

Parameter	Units	50164361015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	959	964	1	10	

SAMPLE DUPLICATE: 1723344

Parameter	Units	50164539003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	131	130	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Batch: 373461 — Analysis Method: SM 2540C
Batch Method: SM 2540C — Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50164541010

METHOD BLANK: 1723511 — Matrix: Water
Associated Lab Samples: 50164541010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/13/17 10:06	

LABORATORY CONTROL SAMPLE: 1723512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	295	98	80-120	

SAMPLE DUPLICATE: 1723513

Parameter	Units	50164640002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	988	987	0	10	

SAMPLE DUPLICATE: 1723514

Parameter	Units	50164610001 Result	Dup Result	RPD	Max RPD	Qualifiers
Dissolved Solids	mg/L	276	284	3	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373861 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50164541011, 50164541012, 50164541013

METHOD BLANK: 1724925 Matrix: Water
Associated Lab Samples: 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/15/17 11:31	

LABORATORY CONTROL SAMPLE: 1724926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

SAMPLE DUPLICATE: 1724927

Parameter	Units	50164702004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1290	1300	0	10	

SAMPLE DUPLICATE: 1724928

Parameter	Units	50164819001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1200	0	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374707 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

METHOD BLANK: 1728636 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	02/22/17 09:16	

LABORATORY CONTROL SAMPLE: 1728637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	277	92	80-120	

DUPLICATE: 1728638

Parameter	Units	50164550037 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1230	1220	0	10	

SAMPLE DUPLICATE: 1728639

Parameter	Units	50164541017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1520	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373988 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1725427 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/16/17 11:01	

LABORATORY CONTROL SAMPLE: 1725428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.6	95	90-110	

MATRIX SPIKE SAMPLE: 1725429

Parameter	Units	50164541001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	50.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725430 1725431

Parameter	Units	50164664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qu
Chemical Oxygen Demand	mg/L	ND	50	50	54.0	53.0	105	103	90-110	2	20	

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QUALITY CONTROL DATA

ject: Bridgeton 2017Q1 DMP Sampling
ce Project No.: 50164541

Batch: 374960 — Analysis Method: EPA 410.4
tch Method: EPA 410.4 — Analysis Description: 410.4 COD
ted Lab Samples: 50164541015

D BLANK: 1729851 — Matrix: Water
ated Lab Samples: 50164541015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
mical Oxygen Demand	mg/L	ND	10.0	02/23/17 13:01	

LABORATORY CONTROL SAMPLE: 1729852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
hemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1729853 1729854

Parameter	Units	50165138011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
mical Oxygen Demand	mg/L	40.3	50	50	88.8	86.3	97	92	90-110	3	20	

RIX SPIKE SAMPLE: 1729855

Parameter	Units	50165266007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oxygen Demand	mg/L	ND	50	61.0	106	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374961 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50164541016, 50164541017, 50164541018

METHOD BLANK: 1729856 Matrix: Water
Associated Lab Samples: 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/23/17 13:20	

LABORATORY CONTROL SAMPLE: 1729857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1729858 1729859

Parameter	Units	50164541016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Chemical Oxygen Demand	mg/L	44.4	50	50	93.3	90.4	98	92	90-110	3	20

MATRIX SPIKE SAMPLE: 1729860

Parameter	Units	50164550004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10.0	50	67.6	115	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373646 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1724082 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008, 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	02/14/17 10:01	

LABORATORY CONTROL SAMPLE: 1724083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724084 1724085

Parameter	Units	50164541001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2	2	2.4	2.4	116	116	90-110	0	20	M3

MATRIX SPIKE SAMPLE: 1724086

Parameter	Units	50164646001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.075	2	2.4	114	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374546 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

METHOD BLANK: 1727914 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.10	02/21/17 12:44	

LABORATORY CONTROL SAMPLE: 1727915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.1	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727916 1727917

Parameter	Units	50164541015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.33	2	2	2.4	2.4	103	103	90-110	0	20	

MATRIX SPIKE SAMPLE: 1727918

Parameter	Units	50165155001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	2	1.7	82	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373828 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

METHOD BLANK: 1724771 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004, 50164541005, 50164541007, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	02/16/17 13:18	

LABORATORY CONTROL SAMPLE: 1724772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.49	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724773 1724774

Parameter	Units	50164438001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	.5	.5	0.49	0.51	96	98	90-110	2	20	

MATRIX SPIKE SAMPLE: 1724775

Parameter	Units	50164538001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.51	100	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373829 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1724781 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	02/16/17 13:35	

LABORATORY CONTROL SAMPLE: 1724782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.50	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1724783 1724784

Parameter	Units	50164550004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Phosphorus	mg/L	ND	.5	.5	0.50	0.50	99	100	90-110	1	20

MATRIX SPIKE SAMPLE: 1724785

Parameter	Units	50164564004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1.7	.5	2.2	100	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 375337 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50164541015

METHOD BLANK: 1731667 Matrix: Water
Associated Lab Samples: 50164541015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	02/28/17 11:29	

LABORATORY CONTROL SAMPLE: 1731668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.51	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1731669 1731670

Parameter	Units	50165405002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	3.4	.5	.5	4.0	4.0	126	113	90-110	2	20	P6

MATRIX SPIKE SAMPLE: 1731671

Parameter	Units	50165417002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.0	.5	2.6	119	90-110	P6

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 375719 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50164541016, 50164541017, 50164541018

METHOD BLANK: 1732864 Matrix: Water
Associated Lab Samples: 50164541016, 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	03/01/17 15:33	

LABORATORY CONTROL SAMPLE: 1732865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.55	110	90-110	

MATRIX SPIKE SAMPLE: 1732868

Parameter	Units	50165548002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	3.7	.5	3.7	-6	90-110	P6

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374550 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004

METHOD BLANK: 1727931 Matrix: Water
Associated Lab Samples: 50164541001, 50164541002, 50164541003, 50164541004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/21/17 15:39	

LABORATORY CONTROL SAMPLE: 1727932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727933 1727934

Parameter	Units	50164361013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.12	1	1	1.0	1.0	88	89	90-110	2	20	M3

MATRIX SPIKE SAMPLE: 1727935

Parameter	Units	50164361025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	7.2	1	8.1	87	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374570 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50164541007, 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1728117 Matrix: Water
Associated Lab Samples: 50164541007, 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/22/17 14:54	

LABORATORY CONTROL SAMPLE: 1728118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.1	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728119 1728120

Parameter	Units	50164541007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Nitrogen, Ammonia	mg/L	0.18	1	1	1.2	1.2	100	103	90-110	2	20

MATRIX SPIKE SAMPLE: 1728121

Parameter	Units	50164613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1	1.3	125	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374971 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50164541005, 50164541008

METHOD BLANK: 1729893 Matrix: Water
Associated Lab Samples: 50164541005, 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/23/17 16:47	

LABORATORY CONTROL SAMPLE: 1729894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1730338 1730339

Parameter	Units	50164550001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.34	1	1	1.0	1.1	70	71	90-110	1	20	M3

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 375091 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50164541015, 50164541016, 50164541017

METHOD BLANK: 1730445 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016, 50164541017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/24/17 15:43	

LABORATORY CONTROL SAMPLE: 1730446

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1730447 1730448

Parameter	Units	50165240002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	0.99	0.99	99	99	90-110	1	20	

MATRIX SPIKE SAMPLE: 1730449

Parameter	Units	50165240008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	24.9	5	22.4	-50	90-110	P6

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QUALITY CONTROL DATA

ject: Bridgeton 2017Q1 DMP Sampling
e Project No.: 50164541

Batch: 376047 — Analysis Method: SM 4500-NH3 G
atch Method: SM 4500-NH3 G — Analysis Description: 4500 Ammonia
ated Lab Samples: 50164541018

D BLANK: 1734320 — Matrix: Water
ated Lab Samples: 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
gen, Ammonia	mg/L	ND	0.10	03/03/17 12:11	

ABORATORY CONTROL SAMPLE: 1734321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1734322 — 1734323

Parameter	Units	50165392002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
gen, Ammonia	mg/L	ND	1	1	1.0	1.0	98	101	90-110	3	20	

RIX SPIKE SAMPLE: 1734324

Parameter	Units	50165321002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Ammonia	mg/L	0.23	1	1.2	97	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373352
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50164541001

METHOD BLANK: 1722786
Matrix: Water
Associated Lab Samples: 50164541001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/11/17 06:52	

LABORATORY CONTROL SAMPLE: 1722787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1722788 1722789

Parameter	Units	50164307001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qu
Total Organic Carbon	mg/L	ND	200	200	202	205	98	100	80-120	1	20	

MATRIX SPIKE SAMPLE: 1722790

Parameter	Units	50164542001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.8	100	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 373901 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50164541002, 50164541003, 50164541004, 50164541005, 50164541007

METHOD BLANK: 1725136 Matrix: Water
Associated Lab Samples: 50164541002, 50164541003, 50164541004, 50164541005, 50164541007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/17/17 16:38	

LABORATORY CONTROL SAMPLE: 1725137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1725138 1725139

Parameter	Units	50164767001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Organic Carbon	mg/L	1.3	10	10	11.2	11.1	99	98	80-120	0	20	

MATRIX SPIKE SAMPLE: 1725140

Parameter	Units	50164566001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10.6	98	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 374367 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

METHOD BLANK: 1727400 Matrix: Water
Associated Lab Samples: 50164541010, 50164541011, 50164541012, 50164541013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/20/17 17:50	

LABORATORY CONTROL SAMPLE: 1727401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1727402 1727403

Parameter	Units	50164664005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	10.5	10.6	97	99	80-120	1	20	

MATRIX SPIKE SAMPLE: 1727404

Parameter	Units	50164550007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	15.4	20	35.7	102	80-120	

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QUALITY CONTROL DATA

ject: Bridgeton 2017Q1 DMP Sampling
ce Project No.: 50164541

Batch: 374736 — Analysis Method: SM 5310C
tch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
ded Lab Samples: 50164541008

D BLANK: 1728737 — Matrix: Water
ated Lab Samples: 50164541008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Organic Carbon	mg/L	ND	1.0	02/22/17 17:46	

ABORATORY CONTROL SAMPLE: 1728738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tal Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1728739 1728740

Parameter	Units	50164550023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
al Organic Carbon	mg/L	22.1	40	40	61.0	61.1	97	97	80-120	0	20	

RIX SPIKE SAMPLE: 1728741

Parameter	Units	50164962005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
ganic Carbon	mg/L	569	400	570	0	80-120	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 375347
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50164541015, 50164541016

METHOD BLANK: 1731708 Matrix: Water
Associated Lab Samples: 50164541015, 50164541016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/27/17 16:26	

LABORATORY CONTROL SAMPLE: 1731709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1731710 1731711

Parameter	Units	50165083003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD
Total Organic Carbon	mg/L	1.7	10	10	11.6	11.6	99	99	80-120	0	20

MATRIX SPIKE SAMPLE: 1733343

Parameter	Units	50164541016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10.4	40	49.7	98	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

QC Batch: 375375 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50164541017, 50164541018

METHOD BLANK: 1731825 — Matrix: Water
Associated Lab Samples: 50164541017, 50164541018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/28/17 05:46	

LABORATORY CONTROL SAMPLE: 1731826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Organic Carbon	mg/L	10	9.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1731827 1731828

Parameter	Units	50165192001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Organic Carbon	mg/L	ND	10	10	10.4	10.2	98	95	80-120	2	20	

MATRIX SPIKE SAMPLE: 1731829

Parameter	Units	50165264005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5.8	10	15.6	98	80-120	

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QUALIFIERS

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50164541001	PZ-109-SS		374910		
50164541002	PZ-110-SS		374910		
50164541003	PZ-111-SD		374910		
50164541004	PZ-205-SS		374910		
50164541005	PZ-100-SD		374910		
50164541007	PZ-106-SS		374910		
50164541008	PZ-106-SD		374910		
50164541010	PZ-100-SS		374910		
50164541011	PZ-105-SS		374910		
50164541012	PZ-104-SS		374910		
50164541013	PZ-104-SD		374910		
50164541015	PZ-201A-SS		374910		
50164541016	PZ-115-SS		374910		
50164541018	PZ-114-AS		374910		
50164541001	PZ-109-SS	EPA 9056	373353		
50164541002	PZ-110-SS	EPA 9056	373353		
50164541003	PZ-111-SD	EPA 9056	373353		
50164541004	PZ-205-SS	EPA 9056	373353		
50164541005	PZ-100-SD	EPA 9056	373353		
50164541007	PZ-106-SS	EPA 9056	373353		
50164541008	PZ-106-SD	EPA 9056	373353		
50164541010	PZ-100-SS	EPA 9056	373493		
50164541011	PZ-105-SS	EPA 9056	373493		
50164541012	PZ-104-SS	EPA 9056	373493		
50164541013	PZ-104-SD	EPA 9056	373493		
50164541015	PZ-201A-SS	EPA 9056	374562		
50164541016	PZ-115-SS	EPA 9056	374562		
50164541017	PZ-115-SS DUP	EPA 9056	374562		
50164541018	PZ-114-AS	EPA 9056	374562		
50164541001	PZ-109-SS	EPA 3010	373190	EPA 6010	373802
50164541002	PZ-110-SS	EPA 3010	373190	EPA 6010	373802
50164541003	PZ-111-SD	EPA 3010	373190	EPA 6010	373802
50164541004	PZ-205-SS	EPA 3010	373190	EPA 6010	373802
50164541005	PZ-100-SD	EPA 3010	373190	EPA 6010	373802
50164541007	PZ-106-SS	EPA 3010	373190	EPA 6010	373802
50164541008	PZ-106-SD	EPA 3010	373190	EPA 6010	373802
50164541010	PZ-100-SS	EPA 3010	373622	EPA 6010	374121
50164541011	PZ-105-SS	EPA 3010	373622	EPA 6010	374121
50164541012	PZ-104-SS	EPA 3010	373622	EPA 6010	374121
50164541013	PZ-104-SD	EPA 3010	373622	EPA 6010	374121
50164541015	PZ-201A-SS	EPA 3010	374773	EPA 6010	375462
50164541016	PZ-115-SS	EPA 3010	374773	EPA 6010	375462
50164541017	PZ-115-SS DUP	EPA 3010	374773	EPA 6010	375462
50164541018	PZ-114-AS	EPA 3010	374773	EPA 6010	375462
50164541001	PZ-109-SS	EPA 200.2	373328	EPA 6020	373693

REPORT OF LABORATORY ANALYSIS

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(614)486-5421

Pace Analytical Services
7726 Moller
Indianapolis IN
(317)2

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50164541002	PZ-110-SS	EPA 200.2	373328	EPA 6020	373693
50164541003	PZ-111-SD	EPA 200.2	373328	EPA 6020	373693
50164541004	PZ-205-SS	EPA 200.2	373328	EPA 6020	373693
50164541005	PZ-100-SD	EPA 200.2	373328	EPA 6020	373693
50164541007	PZ-106-SS	EPA 200.2	373328	EPA 6020	373693
50164541008	PZ-106-SD	EPA 200.2	373328	EPA 6020	373693
50164541010	PZ-100-SS	EPA 200.2	373525	EPA 6020	373738
50164541011	PZ-105-SS	EPA 200.2	373525	EPA 6020	373738
50164541012	PZ-104-SS	EPA 200.2	373525	EPA 6020	373738
50164541013	PZ-104-SD	EPA 200.2	373525	EPA 6020	373738
50164541015	PZ-201A-SS	EPA 200.2	374618	EPA 6020	374777
50164541016	PZ-115-SS	EPA 200.2	374618	EPA 6020	374777
50164541017	PZ-115-SS DUP	EPA 200.2	374618	EPA 6020	374777
50164541018	PZ-114-AS	EPA 200.2	374618	EPA 6020	374777
50164541001	PZ-109-SS	EPA 7470	373269	EPA 7470	373592
50164541002	PZ-110-SS	EPA 7470	373269	EPA 7470	373592
50164541003	PZ-111-SD	EPA 7470	373269	EPA 7470	373592
50164541004	PZ-205-SS	EPA 7470	373269	EPA 7470	373592
50164541005	PZ-100-SD	EPA 7470	373269	EPA 7470	373592
50164541007	PZ-106-SS	EPA 7470	373269	EPA 7470	373592
50164541008	PZ-106-SD	EPA 7470	373269	EPA 7470	373592
50164541010	PZ-100-SS	EPA 7470	373598	EPA 7470	373957
50164541011	PZ-105-SS	EPA 7470	373598	EPA 7470	373957
50164541012	PZ-104-SS	EPA 7470	373598	EPA 7470	373957
50164541013	PZ-104-SD	EPA 7470	373598	EPA 7470	373957
50164541015	PZ-201A-SS	EPA 7470	374686	EPA 7470	374739
50164541016	PZ-115-SS	EPA 7470	375077	EPA 7470	375333
50164541017	PZ-115-SS DUP	EPA 7470	375077	EPA 7470	375333
50164541018	PZ-114-AS	EPA 7470	375077	EPA 7470	375333
50164541001	PZ-109-SS	EPA 8260	373346		
50164541002	PZ-110-SS	EPA 8260	373346		
50164541003	PZ-111-SD	EPA 8260	373346		
50164541004	PZ-205-SS	EPA 8260	373346		
50164541005	PZ-100-SD	EPA 8260	373346		
50164541007	PZ-106-SS	EPA 8260	373346		
50164541008	PZ-106-SD	EPA 8260	373346		
50164541009	Trip Blank	EPA 8260	373346		
50164541010	PZ-100-SS	EPA 8260	373681		
50164541011	PZ-105-SS	EPA 8260	373681		
50164541012	PZ-104-SS	EPA 8260	373681		
50164541013	PZ-104-SD	EPA 8260	373681		
50164541014	Trip Blank	EPA 8260	373681		
50164541015	PZ-201A-SS	EPA 8260	374800		
50164541016	PZ-115-SS	EPA 8260	374800		

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50164541017	PZ-115-SS DUP	EPA 8260	374800		
50164541018	PZ-114-AS	EPA 8260	374800		
50164541019	Trip Blank	EPA 8260	374800		
50164541001	PZ-109-SS	SM 2540C	373283		
50164541002	PZ-110-SS	SM 2540C	373283		
50164541003	PZ-111-SD	SM 2540C	373283		
50164541004	PZ-205-SS	SM 2540C	373283		
50164541005	PZ-100-SD	SM 2540C	373432		
50164541007	PZ-106-SS	SM 2540C	373432		
50164541008	PZ-106-SD	SM 2540C	373432		
164541010	PZ-100-SS	SM 2540C	373461		
1541011	PZ-105-SS	SM 2540C	373861		
1541012	PZ-104-SS	SM 2540C	373861		
4541013	PZ-104-SD	SM 2540C	373861		
64541015	PZ-201A-SS	SM 2540C	374707		
64541016	PZ-115-SS	SM 2540C	374707		
64541017	PZ-115-SS DUP	SM 2540C	374707		
64541018	PZ-114-AS	SM 2540C	374707		
50164541001	PZ-109-SS	EPA 410.4	373988	EPA 410.4	374021
50164541002	PZ-110-SS	EPA 410.4	373988	EPA 410.4	374021
50164541003	PZ-111-SD	EPA 410.4	373988	EPA 410.4	374021
50164541004	PZ-205-SS	EPA 410.4	373988	EPA 410.4	374021
50164541005	PZ-100-SD	EPA 410.4	373988	EPA 410.4	374021
50164541007	PZ-106-SS	EPA 410.4	373988	EPA 410.4	374021
50164541008	PZ-106-SD	EPA 410.4	373988	EPA 410.4	374021
50164541010	PZ-100-SS	EPA 410.4	373988	EPA 410.4	374021
50164541011	PZ-105-SS	EPA 410.4	373988	EPA 410.4	374021
50164541012	PZ-104-SS	EPA 410.4	373988	EPA 410.4	374021
50164541013	PZ-104-SD	EPA 410.4	373988	EPA 410.4	374021
50164541015	PZ-201A-SS	EPA 410.4	374960	EPA 410.4	375000
50164541016	PZ-115-SS	EPA 410.4	374961	EPA 410.4	375004
50164541017	PZ-115-SS DUP	EPA 410.4	374961	EPA 410.4	375004
50164541018	PZ-114-AS	EPA 410.4	374961	EPA 410.4	375004
4541001	PZ-109-SS	EPA 353.2	373646		
1541002	PZ-110-SS	EPA 353.2	373646		
541003	PZ-111-SD	EPA 353.2	373646		
1541004	PZ-205-SS	EPA 353.2	373646		
4541005	PZ-100-SD	EPA 353.2	373646		
64541007	PZ-106-SS	EPA 353.2	373646		
64541008	PZ-106-SD	EPA 353.2	373646		
64541010	PZ-100-SS	EPA 353.2	373646		
64541011	PZ-105-SS	EPA 353.2	373646		
50164541012	PZ-104-SS	EPA 353.2	373646		
50164541013	PZ-104-SD	EPA 353.2	373646		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50164541015	PZ-201A-SS	EPA 353.2	374546		
50164541016	PZ-115-SS	EPA 353.2	374546		
50164541017	PZ-115-SS DUP	EPA 353.2	374546		
50164541018	PZ-114-AS	EPA 353.2	374546		
50164541001	PZ-109-SS	EPA 365.1	373828	EPA 365.1	37404
50164541002	PZ-110-SS	EPA 365.1	373828	EPA 365.1	37404
50164541003	PZ-111-SD	EPA 365.1	373828	EPA 365.1	37404
50164541004	PZ-205-SS	EPA 365.1	373828	EPA 365.1	374042
50164541005	PZ-100-SD	EPA 365.1	373828	EPA 365.1	374042
50164541007	PZ-106-SS	EPA 365.1	373828	EPA 365.1	374042
50164541008	PZ-106-SD	EPA 365.1	373828	EPA 365.1	374042
50164541010	PZ-100-SS	EPA 365.1	373829	EPA 365.1	374043
50164541011	PZ-105-SS	EPA 365.1	373829	EPA 365.1	374043
50164541012	PZ-104-SS	EPA 365.1	373829	EPA 365.1	374043
50164541013	PZ-104-SD	EPA 365.1	373829	EPA 365.1	374043
50164541015	PZ-201A-SS	EPA 365.1	375337	EPA 365.1	375546
50164541016	PZ-115-SS	EPA 365.1	375719	EPA 365.1	376057
50164541017	PZ-115-SS DUP	EPA 365.1	375719	EPA 365.1	376057
50164541018	PZ-114-AS	EPA 365.1	375719	EPA 365.1	376057
50164541001	PZ-109-SS	SM 4500-NH3 G	374550		
50164541002	PZ-110-SS	SM 4500-NH3 G	374550		
50164541003	PZ-111-SD	SM 4500-NH3 G	374550		
50164541004	PZ-205-SS	SM 4500-NH3 G	374550		
50164541005	PZ-100-SD	SM 4500-NH3 G	374971		
50164541007	PZ-106-SS	SM 4500-NH3 G	374570		
50164541008	PZ-106-SD	SM 4500-NH3 G	374971		
50164541010	PZ-100-SS	SM 4500-NH3 G	374570		
50164541011	PZ-105-SS	SM 4500-NH3 G	374570		
50164541012	PZ-104-SS	SM 4500-NH3 G	374570		
50164541013	PZ-104-SD	SM 4500-NH3 G	374570		
50164541015	PZ-201A-SS	SM 4500-NH3 G	375091		
50164541016	PZ-115-SS	SM 4500-NH3 G	375091		
50164541017	PZ-115-SS DUP	SM 4500-NH3 G	375091		
50164541018	PZ-114-AS	SM 4500-NH3 G	376047		
50164541001	PZ-109-SS	SM 5310C	373352		
50164541002	PZ-110-SS	SM 5310C	373901		
50164541003	PZ-111-SD	SM 5310C	373901		
50164541004	PZ-205-SS	SM 5310C	373901		
50164541005	PZ-100-SD	SM 5310C	373901		
50164541007	PZ-106-SS	SM 5310C	373901		
50164541008	PZ-106-SD	SM 5310C	374736		

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Indianapolis, IN 46268
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q1 DMP Sampling
Pace Project No.: 50164541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50164541010	**PZ-100-SS**	SM 5310C	374367		
50164541011	**PZ-105-SS**	SM 5310C	374367		
50164541012	**PZ-104-SS**	SM 5310C	374367		
50164541013	**PZ-104-SD**	SM 5310C	374367		
50164541015	**PZ-201A-SS**	SM 5310C	375347		
50164541016	**PZ-115-SS**	SM 5310C	375347		
50164541017	**PZ-115-SS DUP**	SM 5310C	375375		
50164541018	**PZ-114-AS**	SM 5310C	375375		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

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 2017Q1 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

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED 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)	Lab ID
1	PZ-109-SS	WT	G	2/7/2017	0936		7	1	2	1	3					Y	X	X	X	X	X		001
2	PZ-110-SS				0933		7	1	2	1	3					Y	X	X	X	X	X		002
3	PZ-111-SD				1047		7	1	2	1	3					Y	X	X	X	X	X		003
4	PZ-205-SS			2/7/2017	1153		7	1	2	1	3					Y	X	X	X	X	X		004
5	PZ-100-SD			2/9/2017	0832		7	1	2	1	3					Y	X	X	X	X	X		005
6	~~PZ-100-SS~~ CAB				0922		7	1	2	1	3					Y	X	X	X	X	X		~~006~~
7	PZ-106-SS				1055		7	1	2	1	3					Y	X	X	X	X	X		007
8	PZ-106-SD				1205		7	1	2	1	3					Y	X	X	X	X	X		008
9	~~Trip Blank~~ CAB TRIP BLANK			2/9/2017	N/A						3					Y					X		009
10																							
11																							
12																							

Residual Chlorine (Y/N): S0164541

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jon Wilkinson / Feezor Engineering, Inc.	2/8/17	1700	FedEx	2/8/17	1700	1.4
	Feezor				2/9/17	8:20	1.5
							2.0
							1.9

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER:

DATE Signed: 2/8/2017

Temp in C | Received on Ice (Y/N) | Custody Seals Intact (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	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 2017Q1 DMP Sampling	Pace Project Manager:	chris.boyle@pacelabs.com
Requested Due Date:	Standard	Project #:		Pace Profile #:	4762 / 1

Regulatory Agency

State / Location: MO

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED 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)	5016454 1
1	PZ-100-SS	WT	G	2/8/2017	0922		7	1	2	1	3					X	X	X	X	X		-010
2	PZ-105-SS			2/9/2017	0846		7	1	2	1	3					X	X	X	X	X		-011
3	PZ-104-SS			2/9/2017	1140		7	1	2	1	3					X	X	X	X	X		-012
4	PZ-104-SD			2/9/2017	1156		7	1	2	1	3					X	X	X	X	X		-013
5	Trip Blank			2/10/2017	N/A		1				1									X		-014
6																						
7																						
8																						
9																						
10																						
11																						
12																						

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	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Jon Wilkinson / Feezor Engineering, Inc.	2/10/17	1720	FedEx	2/10/17	1720	1.2	Y	Y	N
	Fedex			Kirsty Harper	2-10-17	1010	1.9			
							0.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER: DATE Signed: 2/10/2017

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CHAIN-OF-CUSTODY / Analytical Request Document

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50164541

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 2017Q1 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

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 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)	
1	PZ-201A-SS	WT	G	2/17/2017	1125		7	1	2	1	3						X	X	X	X	X		-015
2	PZ-115-SS				1324		7	1	2	1	3						X	X	X	X	X		-016
3	PZ-115-SS DUP				1324		7	1	2	1	3						X	X	X	X	X		-017
4	PZ-114-AS				1357		7	1	2	1	3						X	X	X	X	X		-018
5	Trip Blank			2/17/2017	N14		1				1										X		-019
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Jon Wilkinson / Feazor Engineering, Inc.	2/17/17	1700	FedEx	2/17/17	1700
	FedEx			Mindy Harper	2-18-17	1000

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
0.8	Y	Y	Y
1.7			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Wilkinson

SIGNATURE of SAMPLER: [signature] DATE Signed:

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic MO Project # 50164541

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

Tracking #: 7114 7931 6419

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

Date/Time 5035A kits placed in freezer: _____

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

Thermometer 1 2 3 4 5 6 A (B) C D E F Type of Ice: Wet Blue None [ ] Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 1.4, 1.5, 2.0, 1.9 / 1.4, 1.5, 2.0, 1.9 Ice Visible in Sample Containers: [ ] yes [x] no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: EN 2/9/17

		Comments:
Are samples from West Virginia? Document any containers out of temp.	[ ] Yes [x] No	1.
Chain of Custody Present:	[x] Yes [ ] No	2.
Chain of Custody Filled Out:	[x] Yes [ ] No	3.
Chain of Custody Relinquished:	[x] Yes [ ] No	4.
Sampler Name & Signature on COC:	[x] Yes [ ] No	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [x] No	6.
Rush Turn Around Time Requested:	[ ] Yes [x] No	7.
Containers Intact:	[x] Yes [ ] No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	[x] Yes [ ] No	9. Missing all containers for Sample received PZ-100-SS on COC & ~~Trip Blanks~~ CAB
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	[x] Yes [ ] No [ ] N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	[x] Yes [ ] No [ ] N/A	13 See Below*
Headspace Wisconsin Sulfide	[ ] Yes [ ] No	14
Trip Blank Present:	[ ] Yes [x] No	15
Trip Blank Custody Seals Present	[ ] Yes [x] No	
Project Manager Review		
Samples Arrived within Hold Time:	[ ] Yes [ ] No	15.
Sufficient Volume:	[ ] Yes [ ] No	16.
Correct Containers Used:	[ ] Yes [ ] No	17.

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

Person Contacted: JON WILKERSON Date/Time: _____

Comments/ Resolution: * 109-SS 1/3, 110-SS 3/3, 111-SS 2/3, 205-SS 1/3, 106-SD 3/3

PZ-100-SS ~~Trip Blank Missing~~ - CANCELED CAB

WILL BE SENT IN NEXT SHIPMENT

Project Manager Review: CAB **Date:** 2-10-17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic

Project # 50164541

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

Tracking #: 811165630360

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

Date/Time 5035A kits placed in freezer: _____

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

Thermometer: 1 2 3 4 5 6 A B C D E F

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

Cooler Temperature (Initial/Corrected): 1.2/1.2 1.4/1.4

Ice Visible in Sample Containers: ☑ yes ☐

Temp should be above freezing to 6°C: 0.6/0.6

Comments:

Date and Initials of person examining contents: MH 2.11.17

Are samples from West Virginia?	☐Yes	☑No	1.
Document any containers out of temp.			
Chain of Custody Present:	☑Yes	☐No	2.
Chain of Custody Filled Out:	☑Yes	☐No	3.
Chain of Custody Relinquished:	☑Yes	☐No	4.
Sampler Name & Signature on COC:	☑Yes	☐No	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	6.
Rush Turn Around Time Requested:	☐Yes	☑No	7.
Containers Intact:	☑Yes	☐No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☑Yes	☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.			
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)			12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes	☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes	☐No	14
Trip Blank Present:	☑Yes	☐No	15
Trip Blank Custody Seals Present	☑Yes	☐No	
Project Manager Review			
Samples Arrived within Hold Time:	☑Yes	☐No	15.
Sufficient Volume:	☑Yes	☐No	16.
Correct Containers Used:	☑Yes	☐No	17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Rcvd DG9H PZ-104-SS Broken 1/3
BRZV PZ-100-SS rcvd frozen

Project Manager Review: Kenneth Hunt **Date:** 2/11/17

Form F-IN-Q-290-rev.10, 08Nov2016

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic Project # 50164541

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

Tracking #: 8079 3328 6758

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

Date/Time 5035A kits placed in freezer: _____

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

Thermometer 1 2 3 4 5 6 A B C D E F Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Initial/Corrected) 0.8/0.8 1.7/1.7 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AH 2-18-17

		Comments:
Are samples from West Virginia? Document any containers out of temp.	☐Yes ☑No	1.
Chain of Custody Present:	☑Yes ☐No	2.
Chain of Custody Filled Out:	☑Yes ☐No	3.
Chain of Custody Relinquished:	☑Yes ☐No	4.
Sampler Name & Signature on COC:	☑Yes ☐No	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Containers Intact:	☑Yes ☐No	8.
Sample Labels match COC: Includes date/time/ID/Analysis	☐Yes ☑No	9. Rcvd 1 DAGH (trip blank) not on COC
Exceptions: VOA, coliform, TOC, O&G. All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes ☐No ☐N/A	10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc
Residual Chlorine Check (SVOC 625 Pest/PCB 608)		11. Present Absent
Residual Chlorine Check (Total/Amenable/Free Cyanide)		12. Present Absent
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	13
Headspace Wisconsin Sulfide	☐Yes ☐No	14
Trip Blank Present:	☑Yes ☐No	15
Trip Blank Custody Seals Present	☐Yes ☑No	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No	15.
Sufficient Volume:	☑Yes ☐No	16.
Correct Containers Used:	☑Yes ☐No	17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kenneth Hurst Date: 2/18/17

Sample Container Count

CLIENT: Republic MO

COC PAGE 1 of 1

COC ID# _____

SBS / Bulk / DI / Kit

Project # S0164541

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix SI/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3					1	1		1		1	1									WT	✓		
2	3					1	1		1		1	1										✓		
3	3						1		1		1	1										✓		
4	3						1		1		1	1										✓		
5	3						1		1		1	1										✓		
6																								
7	3						1		1		1	1									WT	✓		
8	3						1		1		1	1										✓		
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Republic

COC PAGE 1 of 1

COC ID#

Project # 50164541

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R (Bulk Kit)	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				Matrix Sl/Wt/NAL (Soil/Water/Non-Aqueous Liquid)	pH <2	pH >9	pH>12
1	3						1		1		1	1									WT			
2	3						1		1		1	1												
3	2						1		1		1	1												
4	3						1		1		1	1												
5	1	trip blank																						
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: Republic

COC PAGE 1 of 1

COC ID# _____

SBS / Bulk / DI / Kit

Project # 50164541

Sample Line Item	DG9H / VG9H	AG1U	WGFU	AG0U	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	AG2U				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	2 trip blank (Rcvd not on COC)																				Wt			
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Engineering for a Better World
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: 2/8/2017 0855
Casing Diameter (inches): 2
Initial Water Level (feet): 29.97
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 29.77 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 455.80
Total Volume Purged (mL): 7,750 mL
Ground Water Elevation Previous Event (ft, msl) 455.98
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 89.34
Water Level after Purge (feet): 46.46
Well Total Depth Previous Event (feet): Top of pump = 89.12 Nov 2016
Date/Time Completed: 2/8/2017 0920

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 47 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 310 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,000 mL prior to first reading								
0904	3,000	15.3	7.17	825	0.42	1.11	79	WL: 36.98; clear
0908	4,150	15.6	7.17	815	0.49	1.16	88	WL: 39.43; clear
0912	5800	15.0	7.17	821	0.29	2.07	98	WL: 42.70; clear
0916	6,850	15.0	7.18	823	0.48	2.90	107	WL: 44.56; clear
0920	7,750	14.9	7.20	824	0.16	3.25	114	WL: 46.46; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ____

Water Level @ Sampling (ft): 46.46

Well Collection Sequence #: 8 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
~~2/8/2017~~ 0922	310	14.9	7.20	824	0.16	3.25	114	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/8/2017 0725

End of day: (Date/time) 2/8/2017 1645

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111005I

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: # 04980084

Purging Event			Sampling Event		
Start of day	End of day		Start of day	End of day	
0.01	N/A	NTU std = 0.02	N/A	0.13	NTU std 0.02
10.01	N/A	NTU std = 10.0	N/A	10.30	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	1064	NTU std 1,000
1424	N/A	µS std = 1,413	N/A	1433	µS std = 1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range: 0.45 - 0.50
7.03	N/A	pH std = 7.02 @ 19.1 °C	N/A	7.05	pH std = 7.04 @ 14.3
4.14	N/A	pH std = 4.00 @ 19.8 °C	N/A	4.20	pH std = 4.00 @ 14.3
Slope: 1.01	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.04	Dissolved O_2 Slope Range 0.6 to 1.25
@ Temp 19.3°C	@ Temp N/A		@ Temp N/A	@ Temp 10.2°C	
242	N/A	ORP std = 223 @ 19.7 °C	N/A	242	ORP std = 227 @ 15.3

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 30's

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from Apr 2013 - Nov 2016: 835 - 618 µS.

pH Prediction Limits = 6.6 - 8.0 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.88 - 7.27 s.u.

Well Closed and Locked?: Y / N Full Suite Collected? Y / N # Bottles Collected: 8 - 7 Pace 1 Eberline

MDNR collected split - MO App I + tritium

Date: 2/8/2017 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-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: 2/8/2017 0800

Casing Diameter (inches): 2

Initial Water Level (feet): 31.45

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 32.55 Nov 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 454.27

Total Volume Purged (mL): 7,600 mL

Ground Water Elevation Previous Event (ft, msl) 453.17

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of pump = 96.27

Water Level after Purge (feet): 46.62

Well Total Depth Previous Event (feet): Top of pump = 96.42 Nov 2016

Date/Time Completed: 2/8/2017 0830

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 345.5 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,500 mL prior to first reading								
0818	3,500	15.2	7.20	628	0.00	0.58	-32	WL: 39.09; clear
0822	4,800	15.3	7.22	631	0.09	0.48	-44	WL: 41.37; clear
0826	6,200	15.3	7.24	630	1.09	0.40	-52	WL: 43.98; clear
0830	7,600	15.3	7.24	629	0.16	0.36	-57	WL: 46.62; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-100-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ____

Water Level @ Sampling (ft): 46.62

Well Collection Sequence #: 7 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ___
MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/8/2017 0832	345.5	15.3	7.24	629	0.16	0.36	-57	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/8/2017 0725

End of day: (Date/time) 2/8/2017 1645

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111005I

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: #04080084

Purging Event			Sampling Event		
Start of day	End of day		Start of day	End of day	
0.01	N/A	NTU std = 0.02	N/A	0.13	NTU std 0.02
10.01	N/A	NTU std = 10.0	N/A	10.30	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	1064	NTU std 1,000
1424	N/A	µS std = 1,413	N/A	1433	µS std = 1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range: 0.45 - 0.50
7.03	N/A	pH std = 7.02 @ 19.1 °C	N/A	7.05	pH std = 7.04 @ 14.3 °C
4.14	N/A	pH std = 4.00 @ 19.2 °C	N/A	4.20	pH std = 4.00 @ 14.3 °C
Slope: 1.01	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.04	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 19.3 C	@ Temp N/A		@ Temp N/A	@ Temp 10.2 C	
242	N/A	ORP std = 223 @ 19.7 °C	N/A	242	ORP std = 227 @ 15.3 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 710 µS; Historical Range from Apr 2013 - Nov 2016: 567 - 826 µS.

pH Prediction Limits = 6.6 - 8.2 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.95 - 7.48 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 8 - 7 Pace 1 Eberle

MDNR collected split - MO App I + tritium

Date: 2/8/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Location: Bridgeton, Missouri
Sample Matrix: Groundwater
Sample Point ID: PZ-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: 2/9/2017 1019
Casing Diameter (inches): 2
Initial Water Level (feet): 20.30
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 19.84 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 463.15
Total Volume Purged (mL): 11,700 mL
Ground Water Elevation Previous Event (ft, msl) 463.61
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 140.54
Water Level after Purge (feet): 43.59
Well Total Depth Previous Event (feet): Top of pump = 140.32 Nov 2016
Date/Time Completed: 2/9/2017 1058
@ 75
PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 300 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								clear; LFG odor
1038	6,000	25.5	6.75	795	0.24	0.13	-209	WL: 33.02
1042	7,500	24.9	6.71	799	0.97	0.15	-213	WL: 35.65
1046	8,750	25.2	6.72	801	0.35	0.17	-224	WL: 38.20
1050	9,900	24.2	6.72	792	0.35	0.18	-230	WL: 40.35
1054	10,850	24.5	6.73	798	1.05	0.19	-235	WL: 41.95
1058	11,700	24.6	6.71	798	0.27	0.19	-238	WL: 43.59

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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): 43.59

Well Collection Sequence #: 13 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampl

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
2/9/2017 1100	300	24.6	6.71	798	0.27	0.19	-238	Clear, LFG odor

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/9/2017 0730

End of day: (Date/time) 2/9/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20140051

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: #04480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.00	N/A	NTU std = 0.02	N/A	0.01	NTU std 0.02
9.99	N/A	NTU std = 10.0	N/A	10.38	NTU std 10.0
998.2	N/A	NTU std = 1,000	N/A	987.0	NTU std 1,000
1427	N/A	µS std = 1,413	N/A	1424	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @19.1 °C	N/A	7.09	pH std = 7.03 @18.7
4.00	N/A	pH std = 4.00 @19.7 °C	N/A	4.14	pH std = 4.00 @20.5
Slope: 1.01	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.06	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 19.8°C	@ Temp N/A		@ Temp N/A	@ Temp 13.0°C	
236	N/A	ORP std = 223 @19.7 °C	N/A	229	ORP std = 223 @20.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Cloudy, Lt. Breeze, 25°F

Sample Characteristics: Clear; LFG odor

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 930 µS; Historical Range from Apr 2013 - Nov 2016: 770 - 882 µS.

pH Prediction Limits = 6.2 - 8.5 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.51 - 7.1 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 8 - 7 Plas. 1 Coolin

MDNR collected split - NO App I ; tritium

Date: 2/9/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Location: Bridgeton, Missouri
Sample Matrix: Groundwater

Sample Point ID: PZ-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: 2/9/2017 1127
Casing Diameter (inches): 2
Initial Water Level (feet): 22.00
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 20.81 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 461.51
Total Volume Purged (mL): 8,550 mL
Ground Water Elevation Previous Event (ft, msl): 462.70
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 120.61
Water Level after Purge (feet): 26.44
Well Total Depth Previous Event (feet): Top of pump = 120.68 Nov 2016
Date/Time Completed: 2/9/2017 1154

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 65 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 317 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,000 mL prior to first reading								
1142	5,000	26.1	6.83	2010	0.97	0.16	-204	WL: ~~25.81~~ 25.81; cloudy
1146	6,000	25.8	6.84	2000	1.15	0.14	-206	WL: 26.02; cloudy
1150	7,300	25.6	6.85	2010	1.09	0.14	-209	WL: 26.31; cloudy
1154	8,550	26.0	6.85	2030	0.71	0.13	-210	WL: 26.44; cloudy

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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): 26.44

Well Collection Sequence #: 14 of 46

Parameters: Annual: ____ Semi-Annual: ____ Quarterly: ✓ Monthly: ____ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/9/2017 1156	317	26.0	6.85	2030	0.71	0.13	-210	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/9/2017 0730

End of day: (Date/time) 2/9/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110051

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	
0.00	N/A	NTU std = 0.02	N/A	0.01	NTU std 0.02
9.99	N/A	NTU std = 10.0	N/A	10.38	NTU std 10.0
998.2	N/A	NTU std = 1,000	N/A	987.0	NTU std 1,000
1427	N/A	µS std = 1,413	N/A	1424	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @ 19.1 °C	N/A	7.09	pH std = 7.03 @ 18.7 °C
4.08	N/A	pH std = 4.00 @ 19.7 °C	N/A	4.14	pH std = 4.00 @ 20.5 °C
Slope: 1.01 @ Temp 19.8 °C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.06 @ Temp 13.0 °C	Dissolved O_2 Slope Range: 0.6 to 1.25
236	N/A	ORP std = 223 @ 19.7 °C	N/A	229	ORP std = 223 @ 20.1

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Cloudy, Lt. Breeze, 25°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS: Sp cond within hist range

Sp. Cond. Prediction Limit = 1,500 µS; Historical Range from Apr 2013 - Nov 2016: 1258 - 2110 µS.

pH Prediction Limits = 6.2 - 8.2 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.39 - 6.96 s.u.

Well Closed and Locked?: Y / N Full Suite Collected?: Y / N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collected split - MO App I & trifilm

Date: 2/9/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

Feezor Engineering, Inc. • 3377 Hollenberg Drive • Bridgeton, Missouri 63044

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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
Date/Time Initiated: 2/9/2017 0814
Initial Water Level (feet): 24.21
Initial Water Level Previous Event (feet): 23.35 Nov 2016
Ground Water Elevation (ft, msl): 459.30
Ground Water Elevation Previous Event (ft, msl) 460.16
Well Total Depth (feet): Top of Pump = 144.63
Well Total Depth Previous Event (feet): Top of pump = 144.86 Nov 2016

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): 9,850 mL
Purged Dry?: Yes No ✓
Water Level after Purge (feet): 43.11
Date/Time Completed: 2/9/2017 0844

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.

Average Purge Rate: 328 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 6,000 mL prior to first reading								
0832 ~~0832~~	~~6,000~~	17.7	7.07	1104	1.12	0.43	-66	WL: 35.98; clear
0836	7,400	17.5	7.09	1099	0.76	0.57	-70	WL: 38.71; clear
0840	8,850	17.3	7.09	1067	0.62	1.13	-68	WL: 41.35; clear
0844	9,850	17.2	7.11	1087	1.01	1.09	-63	WL: 43.11; clear

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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): ~~328~~ 43.11

Well Collection Sequence #: 12 of 46

Parameters: Annual: ____ Semi-Annual: ____ Quarterly: ✓ Monthly: ____ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/9/2017 0846	328	17.2	7.11	1087	1.01	1.09	-63	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/9/2017 0730

End of day: (Date/time) 2/9/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110051

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	
0.00	N/A	NTU std = 0.02	N/A	0.01	NTU std 0.02
9.99	N/A	NTU std = 10.0	N/A	10.38	NTU std 10.0
998.2	N/A	NTU std = 1,000	N/A	987.0	NTU std 1,000
1427	N/A	µS std = 1,413	N/A	1424	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
6.99	N/A	pH std = 7.02 @19.1 °C	N/A	7.09	pH std = 7.03 @18.7
4.08	N/A	pH std = 4.00 @19.7 °C	N/A	4.14	pH std = 4.00 @20.5
Slope: 1.01 @ Temp 19.8°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.06 @ Temp 13.0°C	Dissolved O_2 Slope Range: 0.6 to 1.25
236	N/A	ORP std = 223 @19.7 °C	N/A	229	ORP std = 223 @20.1 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 20°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,100 µS; Historical Range from Apr 2013 - Nov 2016: 942 - 1081 µS.

pH Prediction Limits = 6.7 - 8.3 s.u.; Historical Range from Apr 2013 - Nov 2016: 7.01 - 7.52 s.u.

Well Closed and Locked?: Y / N Full Suite Collected?: Y / N # Bottles Collected: 8 - 7 Place - 1 Eberline

MDNR collected split - MO App I & tritium

Date: 2/9/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: **Feezor Engineering, Inc.**

Feezor Engineering, Inc. • 3377 Hollenberg Drive • Bridgeton, Missouri 63044

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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: 2/8/2017 1017
Casing Diameter (inches): 2"
Initial Water Level (feet): 13.94
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 13.17 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 448.77
Total Volume Purged (mL): 9,900 mL
Ground Water Elevation Previous Event (ft, msl): 449.54
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 161.40
Water Level after Purge (feet): 29.30
Well Total Depth Previous Event (feet): Top of pump = 161.42 Nov 2016
Date/Time Completed: 2/9/2017 1053 (2) 460

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.

Average Purge Rate: 225 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 7,000 mL prior to first reading								
1041	7,000	21.5	7.02	982	0.01	0.12	-80	WL: 25.58; clear
1045	7,850	21.5	7.01	983	0.00	0.14	-85	WL: 26.81; clear
1049	8,900	21.2	7.02	987	0.00	0.14	-87	WL: 28.09; clear
1053	9,900	21.5	7.02	985	0.00	0.14	-86	WL: 29.30; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 29.30

Well Collection Sequence #: 9 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/8/2016 ~~1055~~ 1055	275	21.5	7.02	985	0.00	0.14	-86	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/8/2017 0725

End of day: (Date/time) 2/8/2017 1645

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201110051

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: #08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: #09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.13	NTU std 0.02
10.01	N/A	NTU std = 10.0	N/A	10.30	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	1064	NTU std 1,000
1424	N/A	µS std = 1,413	N/A	1433	µS std = 1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range: 0.45 - 0.50
7.03	N/A	pH std = 7.02 @19.1 °C	N/A	7.05	pH std = 7.04 @14.3 °C
4.14	N/A	pH std = 4.00 @19.8 °C	N/A	4.20	pH std = 4.00 @14.3 °C
Slope: 1.01 @ Temp 19.3°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.04 @ Temp 10.2°C	Dissolved O_2 Slope Range: 0.6 to 1.25
242	N/A	ORP std = 223 @19.7 °C	N/A	242	ORP std = 227 @15.3

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 35°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS: Sp. cond calibration appears to be valid @ EOD

Sp. Cond. Prediction Limit = 950 µS; Historical Range from Apr 2013 - Nov 2016: 710 - 973 µS.

pH Prediction Limits = 6.3 - 8.3 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.89 - 7.26 s.u.

Well Closed and Locked?: Y / N Full Suite Collected?: Y / N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collected split - Mo App I & tritium

Date: 2/8/2016 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

Feezor Engineering, Inc. • 3377 Hollenberg Drive • Bridgeton, Missouri 63044

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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: 2/8/2017 1121
Casing Diameter (inches): 2
Initial Water Level (feet): 14.77
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 13.72 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 448.59
Total Volume Purged (mL): 12,700 mL
Ground Water Elevation Previous Event (ft, msl) 449.64
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 196.47
Water Level after Purge (feet): (JW) ~~20.05~~ 21.05
Well Total Depth Previous Event (feet): Top of pump = 196.48 Nov 2016
Date/Time Completed: 2/9/2017 1203

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 55 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 302 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 9,000 mL prior to first reading								
1151	9,000	22.0	6.92	1881	0.01	0.21	-130	WL: 20.70; clear
1155	10,150	21.9	6.93	1870	0.36	0.11	-131	WL: 20.85; clear
1159	11,450	21.7	6.93	1860	0.70	0.11	-132	WL: 20.97; clear
1203	12,700	22.0	6.92	1848	0.67	0.10	-133	WL: 21.05; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-106-SD

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ____

Water Level @ Sampling (ft): 21.05

Well Collection Sequence #: 10 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/8/2017 1205	302	22.0	6.92	1848	0.67	0.10	-133	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/8/2017 0725

End of day: (Date/time) 2/8/2017 1645

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111005

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.13	NTU std 0.02
10.01	N/A	NTU std = 10.0	N/A	10.30	NTU std 10.0
1000	N/A	NTU std = 1,000	N/A	1064	NTU std 1,000
1424	N/A	µS std = 1,413	N/A	1433	µS std = 1,413
Cell Const: 0.481	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.481	Cell Const Range: 0.45 - 0.50
7.03	N/A	pH std = 7.02 @19.1°C	N/A	7.05	pH std = 7.04 @14.3
4.14	N/A	pH std = 4.00 @19.8°C	N/A	4.20	pH std = 4.00 @ 14.3
Slope: 1.01 @ Temp 19.3°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.04 @ Temp 10.2°C	Dissolved O_2 Slope Range: 0.6 to 1.25
242	N/A	ORP std = 223 @19.7°C	N/A	242	ORP std = 227 @15.3 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 30°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS: sp. cond within historical range.

Sp. Cond. Prediction Limit = 1,200 µS; Historical Range from Apr 2013 - Nov 2016: 827 - 6120 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.54 - 6.97 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collected split - MO App I & tritium

Date: 2/8/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

Feezor Engineering, Inc. • 3377 Hollenberg Drive • Bridgeton, Missouri 63044

Engineering for a Better World
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
Dedicated Equipment: Yes ✓ No
Date/Time Initiated: 2/7/2017 0757
Casing Diameter (inches): 2
Initial Water Level (feet): 21.92
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 28.12 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 438.27
Total Volume Purged (mL): 8,750 mL
Ground Water Elevation Previous Event (ft, msl) 432.07
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 130.92
Water Level after Purge (feet): 39.13
Well Total Depth Previous Event (feet): Top of pump = 130.98 Nov 2016
Date/Time Completed: 2/7/2017 0834

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 65 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 5,500 @ 236.5 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 5,500 mL prior to first reading								
0822	5,500	20.1	6.99	808	0.00	0.53	146	WL: 32.80; clear
0826	6,350	20.2	6.98	809	0.11	0.47	112	WL: 34.58; clear
0830	7,650	20.3	6.99	809	0.00	0.43	124	WL: 37.05; clear
0834	8,750	20.3	7.00	810	0.00	0.41	137	WL: 39.13; clear

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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): 39.13

Well Collection Sequence #: 1 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/7/2017 0836	236.5	20.3	7.00	810	0.00	0.41	137	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/7/2017 0710

End of day: (Date/time) 2/7/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110051

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: # 09480094

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.73	NTU std 0.02
9.88	N/A	NTU std = 10.0	N/A	10.39	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1000	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1420	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.02 @20.7 °C	N/A	7.03	pH std = 7.02 @19.8 °C
4.08	N/A	pH std = 4.00 @21.0 °C	N/A	4.19	pH std = 4.00 @20.0 °C
Slope: 1.02 @ Temp 21.2°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.05 @ Temp 17.0°C	Dissolved O_2 Slope Range: 0.6 to 1.25
241	N/A	ORP std = 222 @21.1 °C	N/A	236	ORP std = 223 @20.6

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 Apr 2013 - Nov 2016: 715 - 834 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.91 - 7.36 s.u.

Well Closed and Locked? (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 8 - 7 Pace - 1 Eberline

MDNR collected split - MO App I & tritium

Date: 2/7/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

Feezor Engineering, Inc. • 3377 Hollenberg Drive • Bridgeton, Missouri 63044

Engineering for a Better World
FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Location: Bridgeton, Missouri
Sample Matrix: Groundwater

Sample Point ID: PZ-110-SS
Sampler(s): Michael Spurgeon
Jonathan Wilkinson
Top of Casing (ft, msl): 461.15

PURGE INFORMATION:

Method of Well Purge: Bladder Pump
Date/Time Initiated: 2/7/2017 0907
Initial Water Level (feet): 31.11
Initial Water Level Previous Event (feet): 28.85 Nov 2016
Ground Water Elevation (ft, msl): 430.04
Ground Water Elevation Previous Event (ft, msl): 432.30
Well Total Depth (feet): Top of Pump = 107.19
Well Total Depth Previous Event (feet): Top of pump = 107.19 Nov 2016

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): 7,950 mL
Purged Dry?: Yes No ✓
Water Level after Purge (feet): 34.97
Date/Time Completed: 2/7/2017 0931

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: ~~50~~ 60 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 331 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 4,000 mL prior to first reading								
0919	4,000	15.5	6.70	1800	0.92	0.26	-64	WL: 34.21 ; clear
0923	5,250	15.5	6.69	1825	0.48	0.28	-70	WL: 34.51 ; clear
0927	6,550	15.5	6.69	1949	0.81	0.28	-78	WL: 34.83 ; clear
0931	7,950	15.6	6.69	1930	1.58	0.28	-82	WL: 34.97 ; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-110-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 34.97

Well Collection Sequence #: 2 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ **MDNR Split Sampling**

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
2/7/2017 0933	331	15.6	6.69	1930	1.58	0.28	-82	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/7/2017 0710

End of day: (Date/time) 2/7/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 201110051

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.73	NTU std 0.02
9.88	N/A	NTU std = 10.0	N/A	10.39	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1000	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1420	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.02 @ 20.7 °C	N/A	7.03	pH std = 7.02 @ 19.8 °C
4.08	N/A	pH std = 4.00 @ 21.0 °C	N/A	4.19	pH std = 4.00 @ 20.0 °C
Slope: 1.02	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.05	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 21.2°C	@ Temp N/A		@ Temp N/A	@ Temp 17.0°C	
241	N/A	ORP std = 222 @ 21.1 °C	N/A	236	ORP std = 223 @ 20.6 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: P. Cloudy, Breezy, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 2,200 µS; Historical Range from Apr 2013 - Nov 2016: 1402 - 2080 µS.

pH Prediction Limits = 6.0 - 7.7 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.56 - 6.94 s.u.

Well Closed and Locked?: Y / N Full Suite Collected?: Y / N # Bottles Collected: 8 - 7 Pace - 1 Eberline

MDNR collected split - MO App I & tritium

Date: 2/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Sample Point ID: PZ-111-SD
Location: Bridgeton, Missouri
Sampler(s): Michael Spurgeon
Sample Matrix: Groundwater
Jonathan Wilkinson
Top of Casing (ft, msl) 466.46

PURGE INFORMATION:

Method of Well Purge: Bladder Pump
Dedicated Equipment: Yes ✓ No
Date/Time Initiated: 2/7/2016 1006
Casing Diameter (inches): 2
Initial Water Level (feet): 36.08
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 34.21 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 430.38
Total Volume Purged (mL): 10,850 mL
Ground Water Elevation Previous Event (ft, msl) 432.25
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 197.16
Water Level after Purge (feet): 56.99
Well Total Depth Previous Event (feet): Top of pump = 197.20 Nov 2016
Date/Time Completed: 2/7/2016 1045

PURGE DATA: Discharge: 4.0 sec Refill: 7.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 279 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 8,000 mL prior to first reading								
1033	8,000	17.6	7.13	835	0.20	1.81	-19	WL: 51.75 ; clear
1037	8,850	17.7	7.12	835	0.00	1.27 1.24	1	WL: 53.49 ; clear
1041	9,400	17.7	7.12	834	1.11	~~3.44~~	-22	WL: ~~53~~ 55.36 ; clear
1045	10,850	18.0	7.10	833	0.65	1.08	-24	WL: 56.99 ; clear

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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): 56.99

Well Collection Sequence #: 3 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
~~2/7/2017~~ 1047	278	18.0	7.10	833	0.65	1.08	-24	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/7/2017 0710

End of day: (Date/time) 2/7/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111005!

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 (JV) Meter S/N: #09480084 ~~#082~~

Purging Event			Sampling Event		
Start of day	End of day		Start of day	End of day	
0.01	N/A	NTU std = 0.02	N/A	0.73	NTU std 0.02
9.88	N/A	NTU std = 10.0	N/A	10.39	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1000	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1420	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.02 @20.7 °C	N/A	7.03	pH std = 7.02 @19.8
4.00	N/A	pH std = 4.00 @21.0 °C	N/A	4.19	pH std = 4.00 @20.0
Slope: 1.02	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.05	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 21.2°C	@ Temp N/A		@ Temp N/A	@ Temp 17.0°C	
241	N/A	ORP std = 222 @21.1 °C	N/A	236	ORP std = 223 @20.6

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: P. Cloudy, 60°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from Apr 2013 - Nov 2016: 697 - 853 µS.

pH Prediction Limits = 6.4 - 8.1 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.94 - 7.43 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected? (Y) / N # Bottles Collected: 8 - 7 Poly, 1 Oberlin

MDNR collected split - MW App I + tritium

Date: 2/7/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Location: Bridgeton, Missouri
Sample Matrix: Groundwater

Sample Point ID: PZ-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: 2/17/2017 1330
Casing Diameter (inches): 2
Initial Water Level (feet): 21.12
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 18.48 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 430.14
Total Volume Purged (mL): 5,350 mL
Ground Water Elevation Previous Event (ft, msl) 432.78
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 26.29
Water Level after Purge (feet): 21.11
Well Total Depth Previous Event (feet): Top of pump = 26.32 Nov 2016
Date/Time Completed: 2/17/2017 1355

PURGE DATA: Discharge: 3.0 sec Refill: 5.0 sec Pressure: 20 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 315 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 1,500 mL prior to first reading								
1343	1,500	17.6	6.52	2180	9.38	0.54	+52	WL: ~~21.02~~ 21.12 @; clear
1347	2,900	17.5	6.53	2220	8.79	0.54	-67	WL: 21.21; clear
1351	3,850	17.5	6.54	2230	2.76	0.59	-70	WL: 21.19; clear
1355	5,350	17.5	6.55	2260	3.36	0.65	-77	WL: 21.11; clear

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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): 21.11

Well Collection Sequence #: 46 of 46

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
2/17/2017 1357	315	17.3 16.4	6.55	2260	3.86	0.65	-77	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/17/2017 0715

End of day: (Date/time) 2/17/2017 1510

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20111005T

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: #09480094

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	0.18	NTU std 0.02
10.18	N/A	NTU std = 10.0	N/A	10.22	NTU std 10.0
1032	N/A	NTU std = 1,000	N/A	1032	NTU std 1,000
1434	N/A	µS std = 1,413	N/A	1399	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
6.91	N/A	pH std = 7.03 @16.6 °C	N/A	6.90	pH std = 7.01 @22.6 °C
4.13	N/A	pH std = 4.00 @15.5 °C	N/A	4.13	pH std = 4.01 @23.0 °C
Slope: 0.85	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 0.90	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 16.7°C	@ Temp N/A		@ Temp N/A	@ Temp 25.5°C	
254	N/A	ORP std = 226 @16.3 °C	N/A	240	ORP std = 220 @24.2 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 70°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,400 µS; Historical Range from Apr 2013 - Nov 2016: 1556 - 2740 µS.

pH Prediction Limits = 6.2 - 7.0 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.54 - 6.72 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 7

Date: 2/17/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Sample Point ID: PZ-115-SS
Location: Bridgeton, Missouri
Sampler(s): Michael Spurgeon
Sample Matrix: Groundwater
Jonathan Wilkinson
Top of Casing (ft, msl) 452.27

PURGE INFORMATION:

Method of Well Purge: Bladder Pump
Dedicated Equipment: Yes ✓ No
Date/Time Initiated: 2/17/2017 1253
Casing Diameter (inches): 2
Initial Water Level (feet): 15.56
One Borehole Volume (gal): Not Applicable
Initial Water Level Previous Event (feet): 15.95 Nov 2016
One Borehole Volume Previous Event (gal): N/A
Ground Water Elevation (ft, msl): 436.71
Total Volume Purged (mL): 7,670 mL
Ground Water Elevation Previous Event (ft, msl) 436.32
Purged Dry?: Yes No ✓
Well Total Depth (feet): Top of Pump = 81.04
Water Level after Purge (feet): 20.69
Well Total Depth Previous Event (feet): Top of pump = 81.11 Nov 2016
Date/Time Completed: 2/17/2017 1322

PURGE DATA: Discharge: ~~5.5~~ 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.

Average Purge Rate: 265 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 4,500 mL prior to first reading								
1310	4,500	16.6	6.58	2430	0.33	0.42	25	Clear; WL: 19.80
1314	5,550	16.6	6.58	2420	1.29	0.46	22	WL: 20.09; clear
1318	6,560	16.6	6.57	2430	1.35	0.45	22	WL: 20.34; clear
1322	7,670	16.5	6.57	2460	1.03	0.48	22	WL: 20.69; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-115-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ____

Water Level @ Sampling (ft): 20.69

Well Collection Sequence #: 45 of 46

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
2/17/2017 1324	265	16.5	6.57	2460	1.03	0.48	22	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/17/2017 0715

End of day: (Date/time) 2/17/2017 1510

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111005I

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: # 04980084

Purging Event			Sampling Event		
Start of day	End of day		Start of day	End of day	
0.02	N/A	NTU std = 0.02	N/A	0.18	NTU std 0.02
10.18	N/A	NTU std = 10.0	N/A	10.22	NTU std 10.0
1032	N/A	NTU std = 1,000	N/A	1032	NTU std 1,000
1434	N/A	µS std = 1,413	N/A	1399	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
6.91	N/A	pH std = 7.03 @ 16.6 °C	N/A	6.90	pH std = 7.01 @ 22.6
4.13	N/A	pH std = 4.00 @ 15.5 °C	N/A	4.13	pH std = 4.01 @ 23.0
Slope: 0.85	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 0.90	Dissolved O_2 Slope Range 0.6 to 1.25
@ Temp 16.7°C	@ Temp N/A		@ Temp N/A	@ Temp 25.5°C	
254	N/A	ORP std = 226 @ 16.3°C	N/A	240	ORP std = 220 @ 24.8

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 70°

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,500 µS; Historical Range from Apr 2013 - Nov 2016: 1471 - 2740 µS.

pH Prediction Limits = 6.0 - 7.6 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.6 - 6.88 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 7

Collect PZ-115-SS Dup @ 1324 - 7 bottles

Date: 2/17/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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FEEZOR ENGINEERING, INC.

FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill
Location: Bridgeton, Missouri
Sample Matrix: Groundwater

Sample Point ID: PZ-201A-SS
Sampler(s): Michael Spurgeon
Jonathan Wilkinson
Top of Casing (ft, msl): 480.20

PURGE INFORMATION:

Method of Well Purge: Bladder Pump
Date/Time Initiated: 2/17/2017 1102
Initial Water Level (feet): 12.65
Initial Water Level Previous Event (feet): 12.08 Nov 2016
Ground Water Elevation (ft, msl): 467.35
Ground Water Elevation Previous Event (ft, msl): 468.12
Well Total Depth (feet): Top of Pump = 86.09
Well Total Depth Previous Event (feet): Top of pump = 86.12 Nov 2016

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): 6,400 mL
Purged Dry?: Yes No ✓
Water Level after Purge (feet): 28.76
Date/Time Completed: 2/17/2017 1123

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 305 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,000 mL prior to first reading								
1111	3,000	16.9	7.05	758	2.98	1.32	61	WL: 21.27; clear
1115	4,100	16.9	7.05	752	1.57	1.66	38	WL: 23.52; clear
1119	5,200	17.1	7.05	748	1.04	1.89	46	WL: 26.46; clear
1123	6,400	16.9	7.04	745	1.07	2.25	57	WL: 28.76; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-201A-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No ____

Water Level @ Sampling (ft): 28.76

Well Collection Sequence #: 44 of 46

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
2/17/2017 1125	305	16.9	7.04	745	1.07	2.25	57	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/17/2017 0715

End of day: (Date/time) 2/17/2017 1510

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20111005I

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			Sampling Event		
Start of day	End of day		Start of day	End of day	
0.02	N/A	NTU std = 0.02	N/A	0.18	NTU std 0.02
10.18	N/A	NTU std = 10.0	N/A	10.22	NTU std 10.0
1032	N/A	NTU std = 1,000	N/A	1032	NTU std 1,000
1434	N/A	µS std = 1,413	N/A	1399	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
6.91	N/A	pH std = 7.03 @16.6 °C	N/A	6.90	pH std = 7.01 @22.6 °C
4.13	N/A	pH std = 4.00 @15.5 °C	N/A	4.13	(SV) 4.01 pH std = 4.02 @ 23.0 °C
Slope: 0.85	Slope: N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 0.90	Dissolved O_2 Slope Range: 0.6 to 1.25
@ Temp 16.7°C	@ Temp N/A		@ Temp N/A	@ Temp 25.5°C	
254	N/A	ORP std = 226 @16.3 °C	N/A	240	ORP std = 220 @24.8 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 55°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 970 µS; Historical Range from Apr 2013 - Nov 2016: 753 - 851 µS.

pH Prediction Limits = 6.4 - 8.5 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.91 - 7.21 s.u.

Well Closed and Locked?: (Y) / N Full Suite Collected?: (Y) / N # Bottles Collected: 7

Date: 2/17/2017 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) 465.83

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 2/7/2017 1129

Casing Diameter (inches): 2

Initial Water Level (feet): 32.09

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (feet): 30.12 Nov 2016

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 433.74

Total Volume Purged (mL): 6,250 mL

Ground Water Elevation Previous Event (ft, msl) 435.71

Purged Dry?: Yes No ✓

Well Total Depth (feet): Top of Pump = 92.64

Water Level after Purge (feet): 44.63

Well Total Depth Previous Event (feet): Top of pump = 92.98 Nov 2016

Date/Time Completed: 2/7/2017 1151

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O_2, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 284 mL / min

Time	Cumulative Volume (mL)	Temp (°C)	pH (std units)	Spec. Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	ORP (mV)	Notes
Purge 3,000 mL prior to first reading								
1139	3,000	19.8	7.03	903	0.65	1.58	99	WL: 38.51; clear
1143	4,000	19.6	7.01	903	0.92	1.45	109	WL: 40.48; clear
1147	5,200	19.7	7.00	901	0.96	1.44	111	WL: 42.54; clear
1151	6,250	19.8	6.99	900	1.28	1.42	111	WL: 44.63; clear

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sample Point ID: PZ-205-SS

Sampling Method: Bladder Pump

Dedicated: Yes ✓ No

Water Level @ Sampling (ft): 44.63

Well Collection Sequence #: 4 of 46

Parameters: Annual: ___ Semi-Annual: ___ Quarterly: ✓ Monthly: ___ Other: ✓ MDNR Split Sampl

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
2/7/2017 1153	284	19.8	6.99	900	1.28	1.42	111	

INSTRUMENT CALIBRATION DATA:

Start of day: (Date/Time) 2/7/2017 0710

End of day: (Date/time) 2/7/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: # 20110051

pH / Sp. Cond. Meter: WTW pH/Cond 3400i

pH / Sp. Cond. Meter S/N: # 08200255

ORP / Diss O_2 Meter: WTW pH/Oxi 3400i

ORP / Diss O_2 Meter S/N: # 09480084

Purging Event Start of day	Purging Event End of day		Sampling Event Start of day	Sampling Event End of day	
0.01	N/A	NTU std = 0.02	N/A	0.73	NTU std 0.02
9.88	N/A	NTU std = 10.0	N/A	10.39	NTU std 10.0
1001	N/A	NTU std = 1,000	N/A	1000	NTU std 1,000
1422	N/A	µS std = 1,413	N/A	1420	µS std = 1,413
Cell Const: 0.479	Cell Const: N/A	Cell Const Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.479	Cell Const Range: 0.45 - 0.50
7.00	N/A	pH std = 7.02 @20.7 °C	N/A	7.03	pH std = 7.02 @19.8
4.08	N/A	pH std = 4.00 @21.0 °C	N/A	4.19	pH std = 4.00 @20.0
Slope: 1.02 @ Temp 21.2°C	Slope: N/A @ Temp N/A	Dissolved O_2 Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.05 @ Temp 17.0°C	Dissolved O_2 Slope Range: 0.6 to 1.25
241	N/A	ORP std = 222 @21.1 °C	N/A	236	ORP std = 223 @20.6 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Sunny, Breezy, 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,300 µS; Historical Range from Apr 2013 - Nov 2016: 762 - 936 µS.

pH Prediction Limits = 6.5 - 7.9 s.u.; Historical Range from Apr 2013 - Nov 2016: 6.86 - 7.27 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 8 - 7 Pace, 1 Eberline

MDNR collected split - Mo App I & tritium

Date: 2/7/2017 By: [signature] Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.

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