



August 8, 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 Second 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,

A handwritten signature in black ink, appearing to read "Steve Jett".

Steve Jett, P.G.
Owner

Attachment: Groundwater Statistical Analysis Report (1 Hardcopy)

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

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DETECTION MONITORING PROGRAM GROUNDWATER STATISTICAL ANALYSIS REPORT

**Second Quarter 2017
Sampling Event**

**Bridgeton Landfill, LLC
Bridgeton Landfill
Bridgeton, Missouri**

MO DNR PERMIT No. 118912

August 2017

Prepared by:



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1.0 INTRODUCTION

On behalf of the Bridgeton Landfill, LLC - Bridgeton Landfill, Jett Environmental Consulting has prepared this Detection Monitoring Program (DMP) Groundwater Statistical Analysis Report for the Second Quarter 2017 quarterly groundwater monitoring event. Sampling for the Second Quarter 2017 event was conducted by Feezor Engineering, Inc. on May 2, 3, 4, 5, 8, and 15, 2017. Laboratory analytical testing was performed by Pace Analytical Services, LLC. Statistical evaluations were performed using the statistical analysis software package, Sanitas™, which follows a documented decision logic that incorporates the United States Environmental Protection Agency's (USEPA's) March 2009 Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance (hereafter, Unified Guidance).

2.0 SITE BACKGROUND AND MONITORING NETWORK

Jett Environmental Consulting statistically evaluated the detection monitoring results from the Second 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 2.5% per event for a quarterly sampled facility. The power of the statistical program within each hydrostratigraphic zone is as follows:

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

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

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

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

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

A full suite of sample bottles was collected from each well during the Second Quarter 2017 event, with the exception of well PZ-110-SS. Well PZ-110-SS was not able to be sampled due to inadvertent damage by one of the on-site contractors. The Missouri Geological Survey Wellhead Protection Division and MDNR were notified of the damaged well on May 2, 2017, and a letter was submitted to MDNR on July 24, 2017 describing the techniques that will be utilized for well abandonment and replacement. A replacement well is planned in the near future. A field duplicate was collected at well PZ-205-SS. A field blank was collected at well PZ-104-KS. Four 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 field blank or 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 May 1, 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 Second 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 Second Quarter 2017 event. Intra-well prediction limit summary tables and graphs are presented in **Appendices C, D, and E**.

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

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

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

Of the thirty-five prediction limit exceedances observed for the Second Quarter 2017 event, fourteen were also observed for the previous monitoring event in First Quarter 2017. Twenty-one new prediction limit exceedances were observed for the Second Quarter 2017 event. In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (Third Quarter 2017) will be used to confirm the new exceedances.

The Second Quarter 2017 event served as a confirmatory event for the one new prediction limit exceedance that was observed for the First Quarter 2017 event: total barium at PZ-106-SS. The Second Quarter 2017 result for total barium at PZ-106-SS confirmed the exceedance.

Review of the metals data for PZ-104-SS/PZ-104-SD indicates the samples or laboratory results may have been inadvertently switched. For example, the Second Quarter 2017 metals data for PZ-104-SS matches up with PZ-104-SD historical results, and the Second Quarter 2017 metals data for PZ-104-SD matches up with PZ-104-SS historical results. Review of the field sampling forms, chain of custody forms, and laboratory sample identification numbers did not indicate a switch in samples. The Third Quarter 2017 (August 2017) event will be utilized as a confirmation event for these results.

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 fourteen constituent-well pairs that exhibited confirmed intra-well prediction limit exceedances for the Second Quarter 2017 event, twelve also exhibited increasing statistical trends. Ammonia and total barium at PZ-106-SD did not exhibit upward trends, and have exhibited decreasing concentrations over the last two years.

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

4.5 Organic Constituent Results

During the Second 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.

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

The following organic constituents were detected at well PZ-104-SS: benzene, methyl-tert-butyl ether, 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 December 17, 2013 Assessment Monitoring Plan (AMP).

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

5.0 STATISTICAL RESULTS SUMMARY

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

Of the thirty-five prediction limit exceedances observed for the Second Quarter 2017 event, fourteen were also observed for the previous monitoring event in First Quarter 2017 (see **Table 2**). Twenty-one new prediction limit exceedances were observed for the Second Quarter 2017 event (see **Table 2**). In accordance with MDNR correspondence to Bridgeton Landfill, LLC date October 23, 2003, the next sampling event (Third Quarter 2017) will be used to confirm the new exceedances.

The Second Quarter 2017 event served as a confirmatory event for the one new prediction limit exceedance that was observed for the First Quarter 2017 event: total barium at PZ-106-SS. The Second Quarter 2017 result for total barium at PZ-106-SS confirmed the exceedance.

Well PZ-104-SD exhibited a confirmed exceedance and upward trend for one inorganic constituent in Second Quarter 2017: field specific conductance. PZ-104-SD also exhibited confirmed detections for the following organic constituents: benzene, tetrahydrofuran, toluene, and total xylenes. As noted above, PZ-104-SD is currently being evaluated under the assessment monitoring program, as detailed in the AMP.

Appendix F presents a copy of the laboratory analytical report and field information forms for the Second 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 confirmed exceedances noted in the Second 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 – Second 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 - Second Quarter 2017
Bridgeton Landfill, LLC
Bridgeton Landfill

Zone	Well	Constituent	Units	Result	Prediction Limit	Repeat from First Quarter 2017?	Trend?
Alluvial			None				
St. Louis Formation	PZ-104-SS	Ammonia	mg/L	34	0.47	No	N/A
		Arsenic, Total	mg/L	0.016	0.011	No	N/A
		Calcium, Total	mg/L	97.7	97.0	No	N/A
		Chemical Oxygen Demand	mg/L	170	96	No	N/A
		Chloride	mg/L	202	5	No	N/A
		Chromium, Total	mg/L	0.0095	0.0066	No	N/A
		Hardness, Total	mg/L	490	460	No	N/A
		Iron, Total	mg/L	9.76	8.50	No	N/A
		Magnesium, Total	mg/L	59.6	55	No	N/A
		Manganese, Total	mg/L	0.122	0.100	No	N/A
		Nickel, Total	mg/L	0.0485	0.0230	No	N/A
		Sodium, Total	mg/L	132	27	No	N/A
		Total Dissolved Solids	mg/L	883	510	No	N/A
		Total Organic Carbon	mg/L	45.4	28.0	No	N/A
	PZ-105-SS	Calcium, Total	mg/L	106	87	Yes	Increasing
		Chloride	mg/L	64.9	25	Yes	Increasing
		Magnesium, Total	mg/L	56	47	Yes	Increasing
		Manganese, Total	mg/L	0.0878	0.067	No	N/A
		Total Dissolved Solids	mg/L	597	540	Yes	Increasing
	PZ-106-SS	Barium, Total	mg/L	0.181	0.170	Yes	Increasing
		Chloride	mg/L	43.6	17	Yes	Increasing
		Iron, Total	mg/L	2.44	1.40	Yes	Increasing
		Sodium, Total	mg/L	30.8	17.0	Yes	Increasing
		Specific Conductance, Field	umhos/cm	987	950	Yes	Increasing
		Total Dissolved Solids	mg/L	546	530	No	N/A
	PZ-115-SS	Ammonia	mg/L	1.30	0.34	Yes	Increasing
		Manganese, Total	mg/L	0.0765	0.019	Yes	Increasing
	PZ-201A-SS	Nitrate/Nitrite	mg/L	0.3500	0.330	No	N/A
Salem Formation	PZ-104-SD	Specific Conductance, Field	umhos/cm	1,920	1,500	Yes	Increasing
	PZ-106-SD	Ammonia	mg/L	28.6	1.4	Yes	No
		Barium, Total	mg/L	0.342	0.10	Yes	No
		Specific Conductance, Field	umhos/cm	1,570	1,200	No	N/A
		Total Dissolved Solids	mg/L	772	700	No	N/A
	PZ-111-SD	Chloride	mg/L	24.1	19	No	N/A
		Total Dissolved Solids	mg/L	574	560	No	N/A

Note: Only confirmed prediction limit exceedances were tested for trends.

N/A: Denotes constituent will be evaluated for trends in the event the exceedance is confirmed.

Table 3
Organic Constituent Detections at PZ-114-AS - Second Quarter 2017
Bridgeton Landfill, LLC
Bridgeton Landfill

Sampling Date	Constituent		
	Benzene	Chlorobenzene	p-Dichlorobenzene (1,4-Dichlorobenzene)
8/25/1997	<5.0	7	<5.0
11/10/1997	<5.0	5.1	<5.0
2/16/1998	<5.0	<5.0	<5.0
5/27/1998	<5.0	<5.0	<5.0
11/12/1998	<5.0	7.2	<5.0
5/19/1999	<5.0	<5.0	<5.0
11/19/1999	<5.0	<5.0	<5.0
5/23/2000	<5.0	<5.0	<5.0
11/13/2000	<5.0	<5.0	<5.0
5/15/2001	<5.0	7.70	<5.0
11/7/2001	<5.0	5.0	<5.0
5/21/2002	<5.0	130	<5.0
7/24/2002*	NA	150	NA
11/19/2002	<5.0	120	5.5
5/28/2003	<5.0	110	6.2
11/20/2003	6.1	120	14
5/11/2004	5.4	130	18
11/17/2004	<5.0	96	11
5/25/2005	<5.0	102	12.2
11/30/2005	<5.0	120	16
5/23/2006	<5.0	95	17
11/8/2006	<5.0	87	12
5/17/2007	<5.0	76	8.7
11/7/2007	<5.0	95	11
5/7/2008	<5.0	64	9.0
11/5/2008	<5.0	72	9.4
5/8/2009	<5.0	43	<5.0
11/4/2009	<5.0	19	<5.0
5/20/2010	<5.0	24	<5.0
11/11/2010	<5.0	64	7.0
5/11/2011	<5.0	17	<5.0
11/18/2011	<5.0	14	<5.0
5/10/2012	<5.0	9.6	<5.0
11/27/2012	<5.0	42	<5.0
4/8/2013	8.9	86	5.4
10/8/2013	<5.0	69	6.3
5/28/2014	6.7	68	6.5
9/23/2014	5.0	58	5.9
11/20/2014	<5.0	46.0	5.5
2/4/2015	<5.0	41.1	<5.0
5/13/2015	<5.0	34.0	<5.0
8/24/2015	<5.0	49.6	5.6
11/20/2015	9.1	67.9	7.1
3/9/2016	6.2	58.8	8.5
6/1/2016	6.7	65.7	8.7
9/6/2016	5.2	44.9	6.3
11/22/2016	<5.0	44.8	5.6
2/17/2017	<5.0	34.9	5.6
5/15/2017	5.0	40.9	<5.0

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 - Second 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-butylketone	Methyl-tert-butyl ether	p-isopropyltoluene	Tetrahydrofuran	Toluene	Xylenes [Total]
	5/11/2012	n/a	<5	n/a	<10	n/a	57	<10	<5	n/a	<10	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	n/a	350	<10	11	1.36	<10	<10	4.4	<10	4.4	617	140	31	
	4/11/2013	n/a	24	<0.66	<3.1	n/a	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	5.4	n/a	19	3000	n/a	920	<10	18	n/a	1900	47	n/a	n/a	n/a	n/a	n/a	250	42
	5/28/2014	n/a	<5	<5	n/a	<10	n/a	1300	<10	20	n/a	<10	n/a	n/a	<10	<10	n/a	n/a	73	46
	9/24/2014	<5	<5	<5	n/a	<10	11	1200	<10	13	<10	21	<10	<10	<10	<10	63	34	25	
	11/20/2014	<5	<5	<5	n/a	<10	<0.1	820	<10	11	<10	<10	<10	<5	<5	<5	231	36.5	21	
	2/3/2015	<5	<5	<5	n/a	<10	<0.099	542	<10	10	<5	34	<10	<10	<5	<5	420	26.1	20.4	
104-SD	5/13/2015	<5	<5	<5	<5	<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	70.9	<10	n/a	n/a	n/a	84.3	22	
	11/18/2015	<5	<5	<5	<5	<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	n/a	426	<10	<5	n/a	<10	<10	n/a	n/a	n/a	n/a	9.6	19.3	
	6/3/2016	<5	<5	<5	<10	<0.2	554	<10	<5	<10	<5	52	<10	<10	<5	<1000	8.5	8.5		
	8/24/2016	n/a	<5	<5	8.9	n/a	<10	n/a	451	<10	7.3	n/a	<10	<10	n/a	n/a	n/a	9.3	33.7	
	11/9/2016	<25 / <5	<25 / <5	<25 / <5	<6.5	<25 / <5	<50	<0.2 / <0.2	592 / 554	<50	<25 / <5	<25 / <5	<10	<50 / <10	<50 / <10	<25 / <5	<25 / <5	2060E/2030	<25 / 9.9	<25 / 26.8
	2/9/2017	n/a	<5	5.7	n/a	<10	n/a	433	<10	<5	n/a	<10	<10	n/a	n/a	n/a	n/a	n/a	7.5	24.6
	5/8/2017	<5	<5	<5	n/a	<10	<0.2	400	<10	<5	n/a	<10	<10	<5	<5	<5	1150	34.3	20.4	
	5/11/2012	n/a	<5	<5	n/a	<10	n/a	<5	<10	<5	n/a	<10	<10	n/a	n/a	n/a	n/a	n/a	<5	
	11/12/2012	n/a	20	8.2	n/a	<10	n/a	1100	<10	18	n/a	<10	63	n/a	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	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	<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	<10	n/a	n/a	n/a	n/a	87	59	
	9/24/2014	6.3	<5	5.5	n/a	<10	0.18	1500	<10	29	<10	<10	<10	<10	<10	<10	2000	130	65	
	11/20/2014	<5	<5	<5	n/a	<10	<0.099	1280	<10	20.2	<5	<10	<10	<10	<5	<100	106	47.7		
	2/3/2015	5.5	<5	<5	n/a	<10	<0.1	1020	<10	22.6	<5	<10	<10	<10	<5	<5	5.5	49.9		
	5/14/2015	<5	<5	<5	n/a	<10	<0.2	935	<10	20.3	<5	<10	1.1	<10	<5	<5	<100	71.3	32.8	
	8/25/2015	n/a	<5	<5	n/a	<10	n/a	357	<10	13.2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	14.7	21.2	
	11/18/2015	<5	<5	<5	n/a	<10	<0.2	469	<10	8.7	<5	<10	<10	<10	<5	<100	5.2	23.1		
	3/1/2016	n/a	<5	<5	n/a	<10	<0.1	8.3	<10	<5	n/a	<10	<10	n/a	n/a	n/a	n/a	15.4		
	6/3/2016	<5	5.3	<5	n/a	<10	<0.2	44.1	<10	<5	n/a	<10	<10	<10	<5	<100	5.7	8.7		
	8/24/2016	n/a	<5	9	n/a	<10	n/a	221	<10	7.8	n/a	<10	n/a	n/a	n/a	n/a	n/a	17.1	22.1	
	11/10/2016	<5	<5	7.1	<5	<10	<0.2	279	<10	5.9	<5	<10	<10	<10	<100	<100	12.3	21		
	2/9/2017	n/a	<5	6.3	n/a	<10	n/a	302	<10	<5	n/a	<10	<10	n/a	n/a	n/a	n/a	31.7	12.7	
	5/6/2017	<5	<5	<5	n/a	<10	<0.2	213	<10	<5	<5	<10	<10	<10	<100	<100	25.4	7.4		

Notes:

All results are presented in units of ug/L.

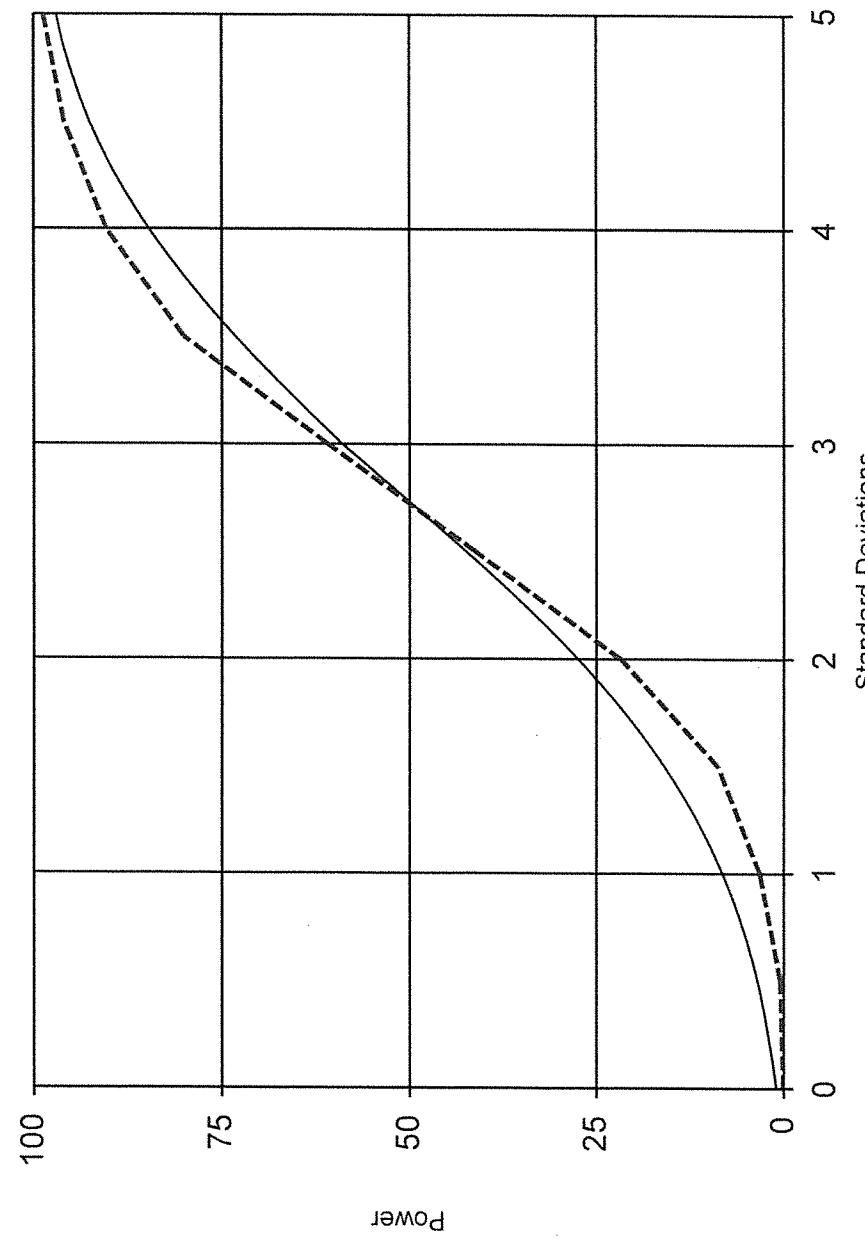
Constituent detected above laboratory reporting limit.

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**

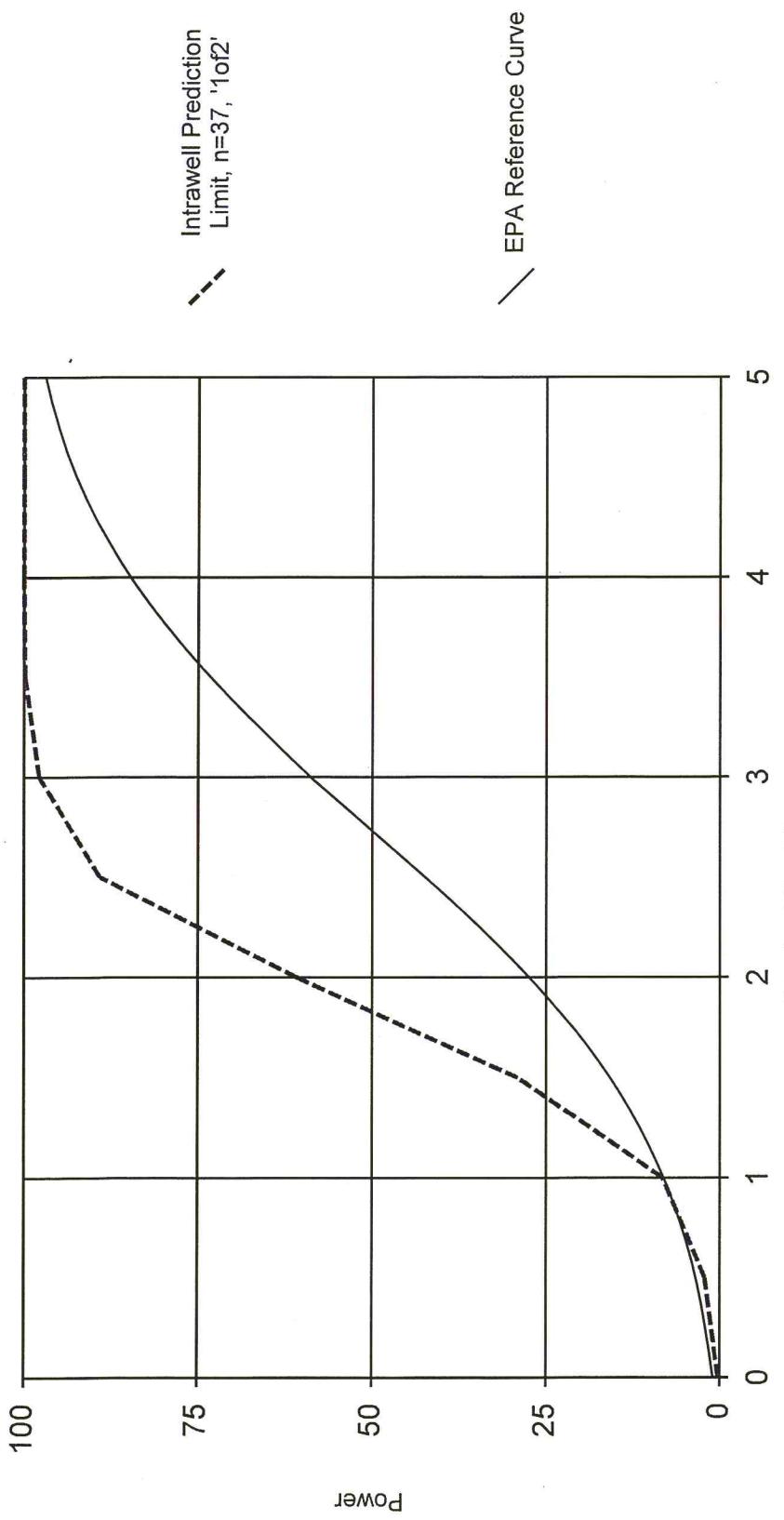
Power Curve



Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

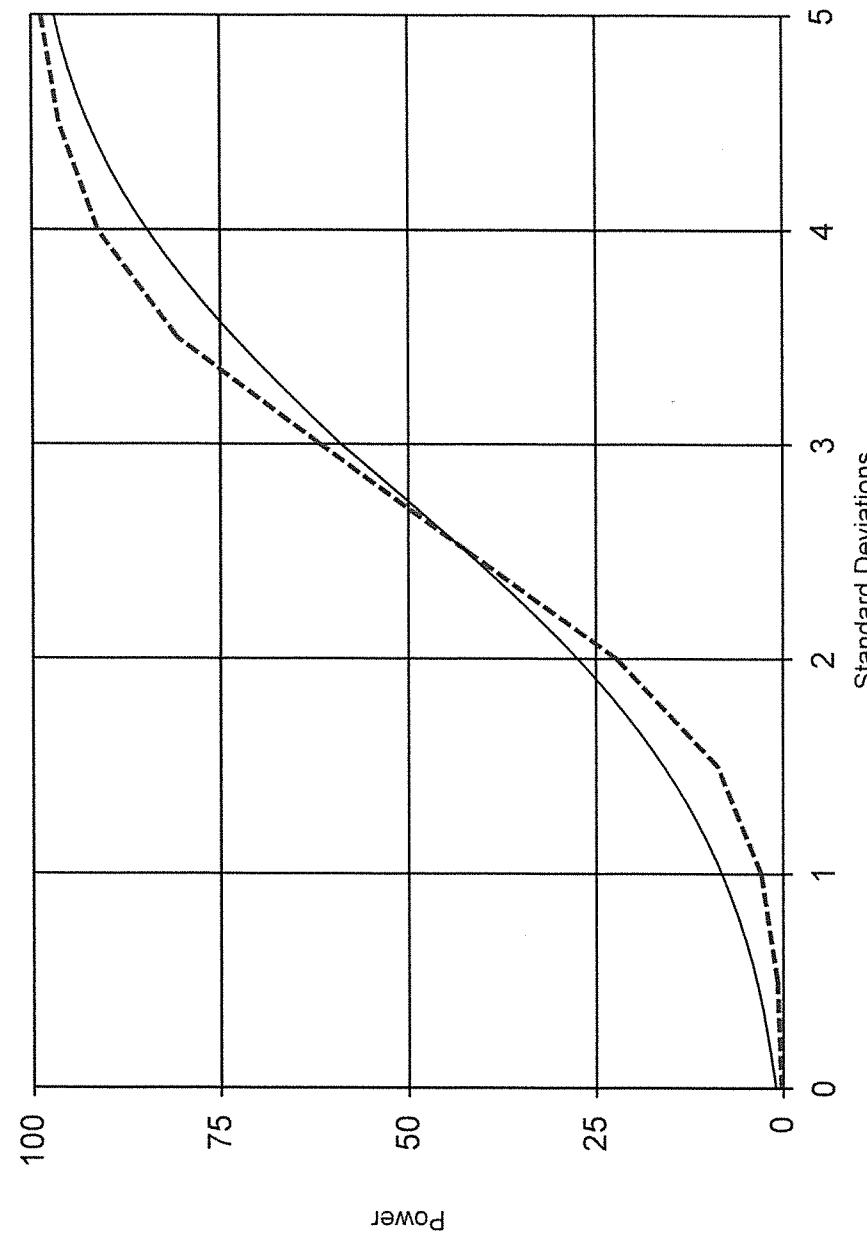


Kappa = 2.092, based on 1 compliance well and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:15 PM

Bridgeton LF Client: RSI Data: BRIDGETON

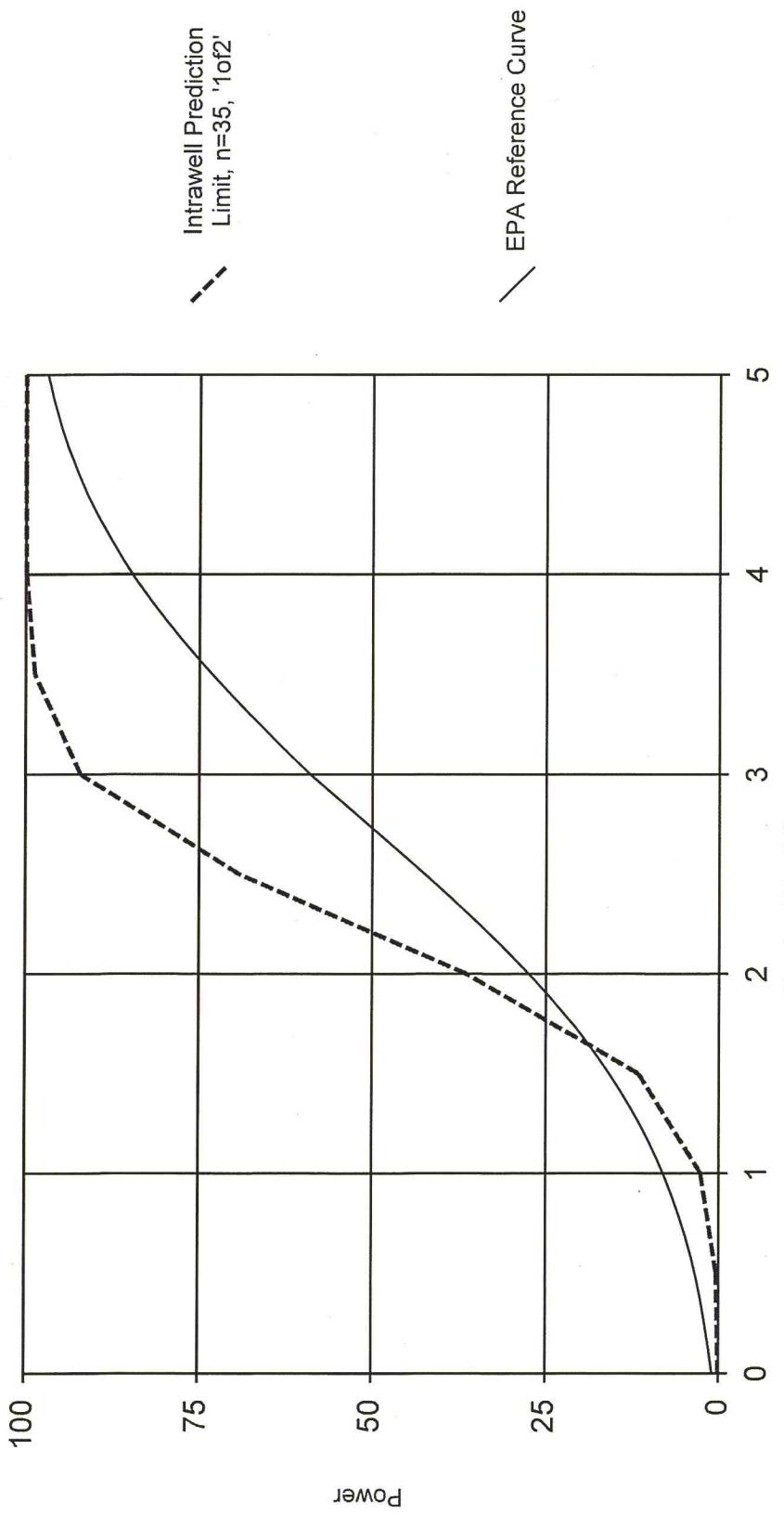
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve

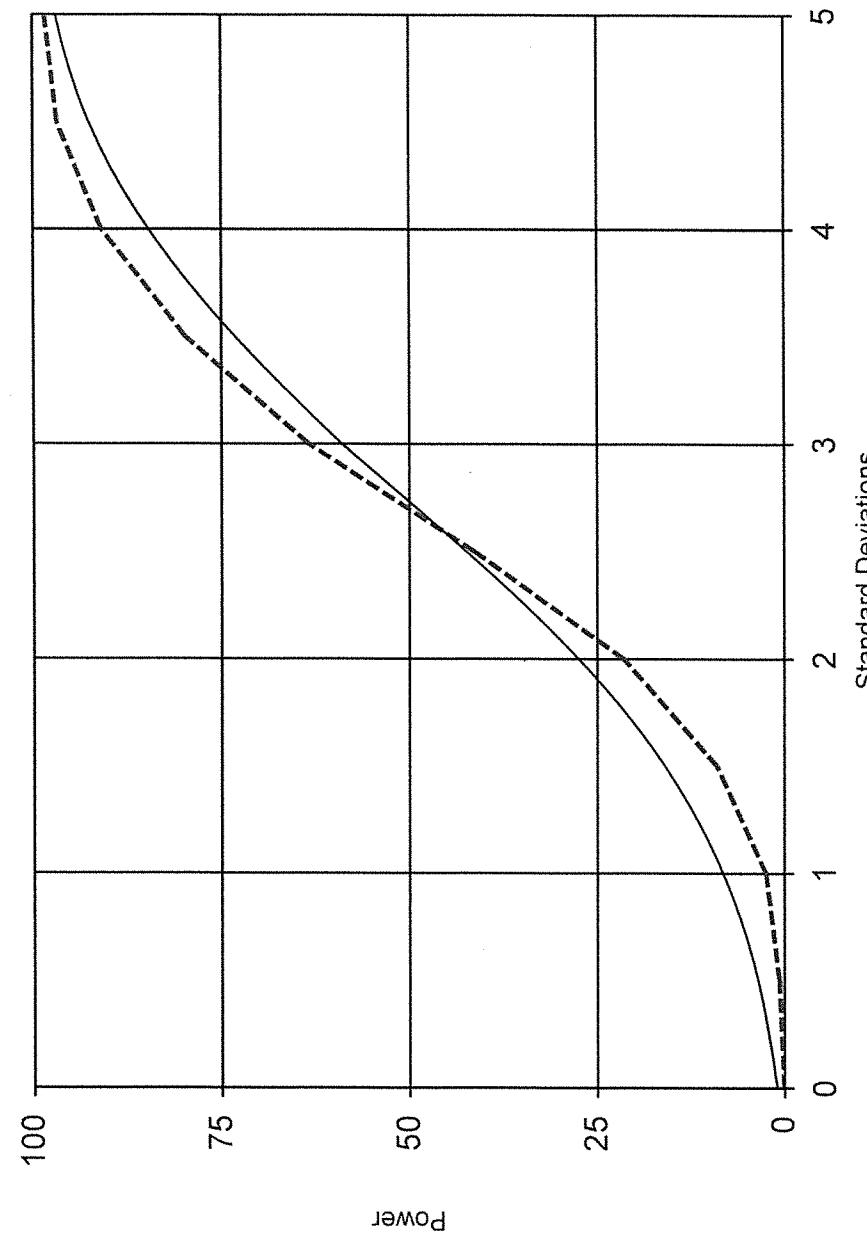


Kappa = 2.466, based on 4 compliance wells and 34 constituents, evaluated quarterly (this report reflects annual total).

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

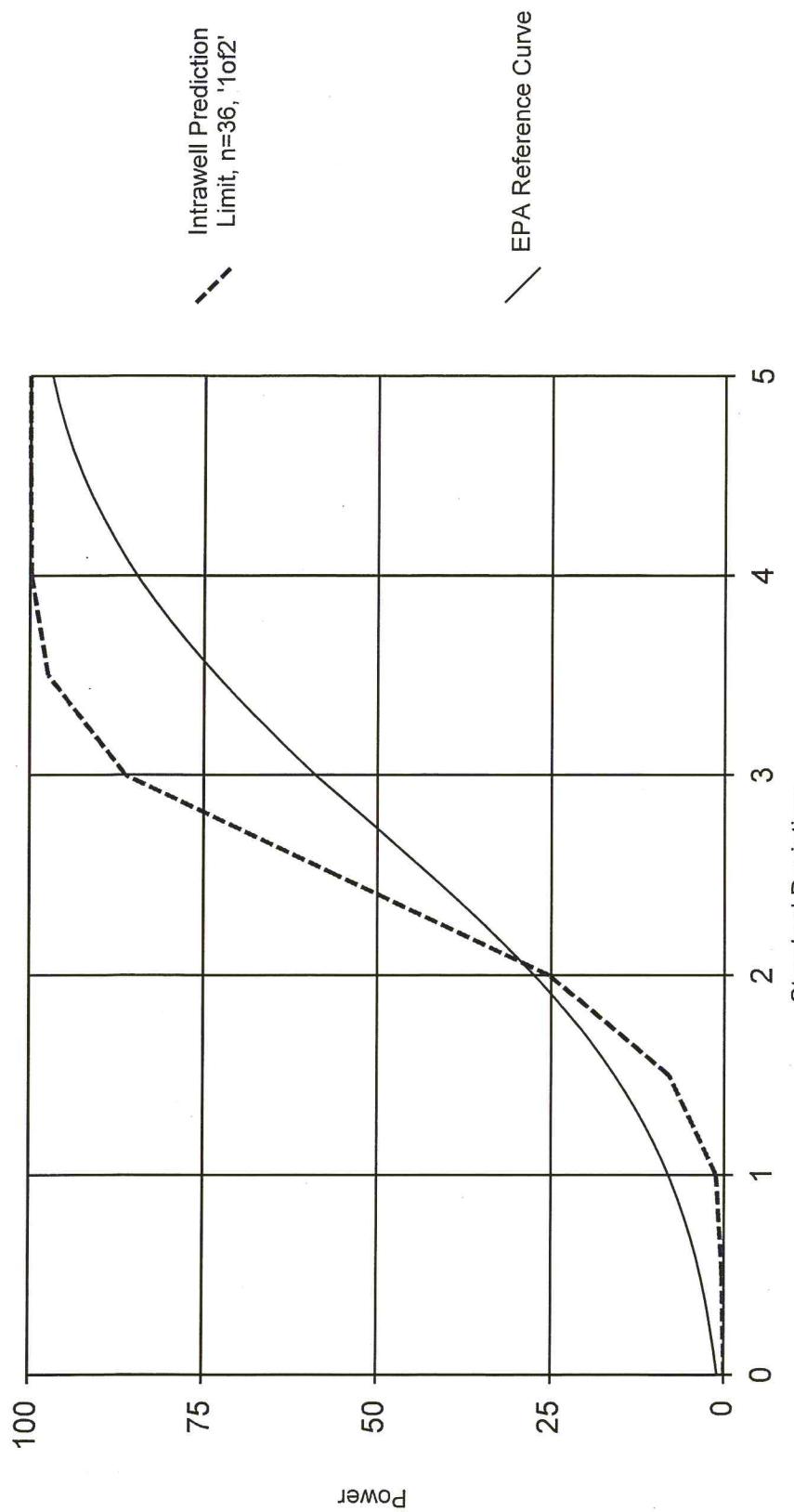
Power Curve



Analysis Run 1/7/2016 4:16 PM

Bridgeton LF Client: RSI Data: BRIDGETON

Power Curve



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

Analysis Run 1/7/2016 4:17 PM

Bridgeton LF Client: RSI Data: BRIDGETON

**APPENDIX B
POTENTIOMETRIC SURFACE MAPS**

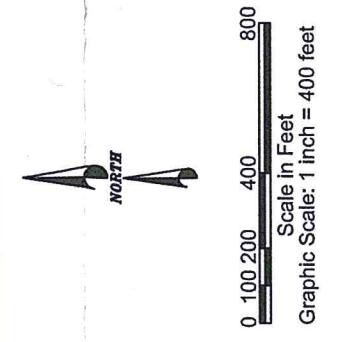
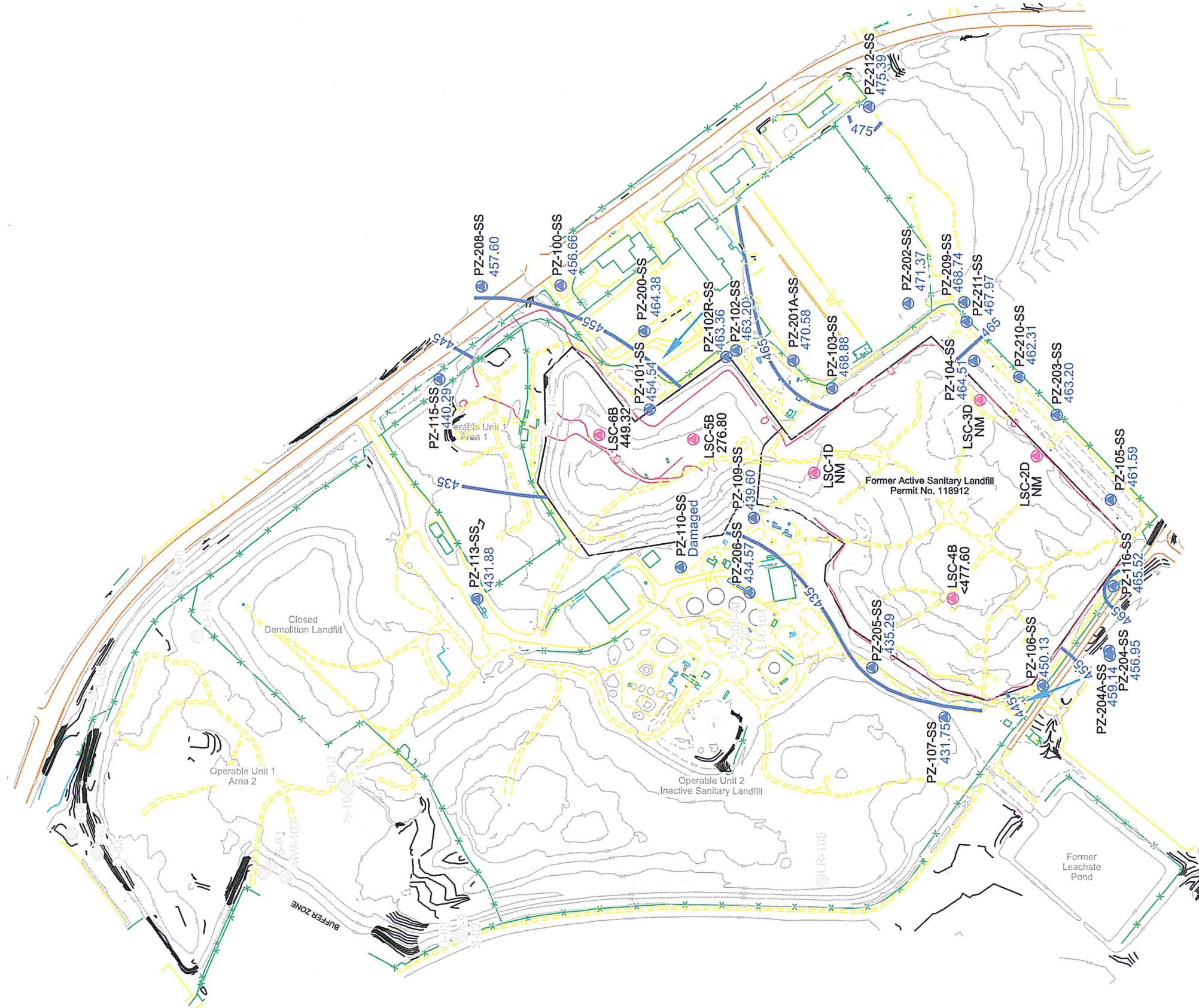


**Second Quarter 2017
Alluvial Zone - Potentiometric Surface
Bridgeton Landfill, LLC - Bridgeton**

**Alluvial Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri**



JETT ENVIRONMENTAL CONSULTING



LEGEND

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

WELL PREFIX/SUFFIX EXPLANATION

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

Notes: Depth to water measurements collected on 5/1/17 by Fazzor Engineering, Inc.; LCS measurements collected on 5/1/17 by Bridgeton Landfill, LLC; Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.



LEGEND

- LEACHATE COLLECTION SUMP
 - GROUNDWATER MONITORING WELL
 - GROUNDWATER ELEVATION (FMSL)
 - POTENTIOMETRIC SURFACE CONTOUR (FMSL)
 - INFERRRED GROUNDWATER FLOW DIRECTION
- 462.17 455 465 470 475 480 485 490 495 500
- Scale in Feet
Graphic Scale: 1 inch = 400 feet



WELL PREFIX/SUFFIX EXPLANATION

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

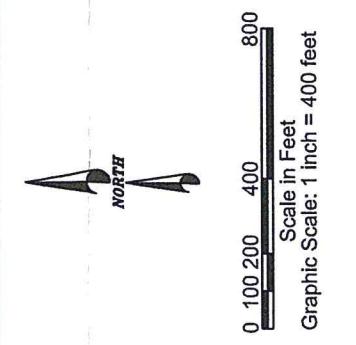
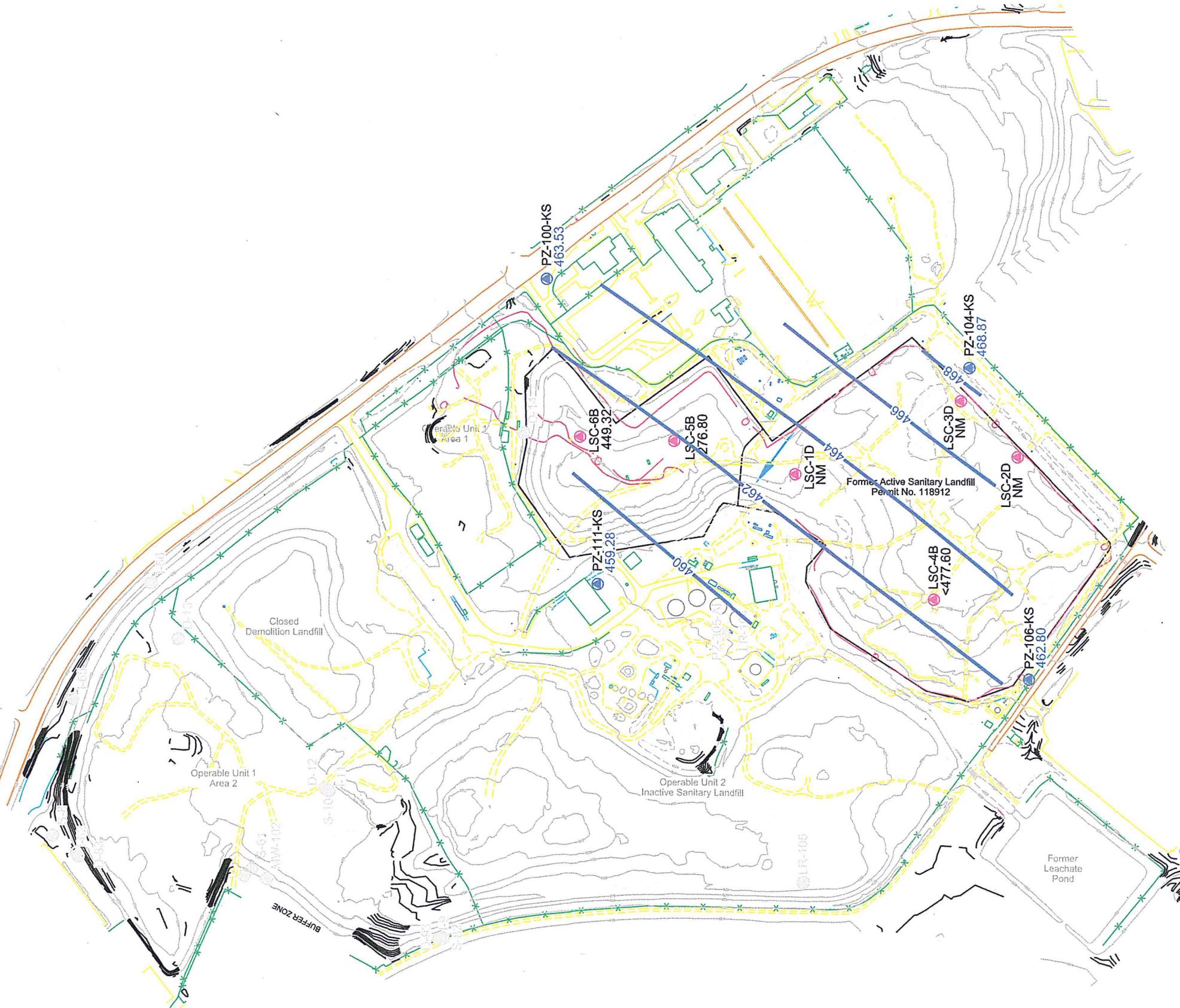
Notes: Depth to water measurements collected on 5/1/17 by Feazor Engineering, Inc.; LCS measurements collected on 5/1/17 by Bridgeton Landfill, LLC. Aerial topography provided Cooper Aerial Surveys Co. dated 12/12/16.

Second Quarter 2017
Deep Salem Zone - Potentiometric Surface Map
Bridgeton Landfill, LLC - Bridgeton, Missouri

JETT
ENVIRONMENTAL
CONSULTING

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





LEGEND

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

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	37.08	431.66
D-81*	450.87	19.37	431.50
D-85	457.67	25.82	431.85
D-87*	464.41	33.64	430.77
I-4	465.32	34.49	430.83
I-67*	441.78	10.60	431.18
I-68	450.60	18.38	432.22
I-73	461.96	30.79	431.17
LR-100*	468.14	15.79	452.35
LR-103	470.64	39.46	431.18
MW-103*	438.85	6.95	431.90
MW-104*	440.91	9.14	431.77
PZ-112-AS	462.53	31.45	431.08
PZ-113-AD	462.24	30.68	431.56
PZ-113-AS	462.19	30.65	431.54
PZ-114-AS	452.14	18.25	433.89
PZ-205-AS	464.77	32.25	432.52
PZ-207-AS	462.65	31.25	431.40
PZ-302-AI*	451.02	19.89	431.13
PZ-302-AS*	451.33	19.95	431.38
PZ-303-AS*	453.08	21.90	431.18
PZ-304-AI*	453.86	22.62	431.24
PZ-304-AS*	453.61	22.37	431.24
S-5	465.75	34.59	431.16
S-53*	444.18	12.66	431.52
S-84	457.45	25.52	431.93
St. Louis / Upper Salem Zone			
PZ-100-SS	486.55	29.89	456.66
PZ-101-SS	493.08	38.54	454.54
PZ-102R-SS	488.56	25.20	463.36
PZ-102-SS	484.65	21.45	463.20
PZ-103-SS	484.21	15.33	468.88
PZ-104-SS	484.00	19.49	464.51
PZ-105-SS	484.04	22.45	461.59
PZ-106-SS	463.11	12.98	450.13
PZ-107-SS	465.41	33.66	431.75
PZ-109-SS	460.19	20.59	439.60
PZ-110-SS	461.46	Damaged	Damaged
PZ-113-SS	462.66	30.78	431.88
PZ-115-SS	452.90	12.61	440.29
PZ-116-SS	478.21	12.69	465.52
PZ-200-SS	486.23	21.85	464.38
PZ-201A-SS	482.33	11.75	470.58
PZ-202-SS	481.82	10.45	471.37
PZ-203-SS	487.19	23.99	463.20
PZ-204A-SS	463.09	3.95	459.14
PZ-204-SS	465.28	8.33	456.95
PZ-205-SS	465.83	30.54	435.29
PZ-206-SS	463.42	28.85	434.57
PZ-208-SS	475.19	17.59	457.60
PZ-209-SS	489.68	20.94	468.74
PZ-210-SS	486.90	24.59	462.31
PZ-211-SS	487.41	19.44	467.97
PZ-212-SS	482.79	7.40	475.39
Deep Salem Zone			
MW-1204	478.04	9.58	468.46
PZ-100-SD	486.49	30.97	455.52
PZ-104-SD	484.15	20.21	463.94
PZ-106-SD	463.84	13.69	450.15
PZ-111-SD	466.57	36.05	430.52
PZ-209-SD	489.58	23.36	466.22
PZ-210-SD	487.00	24.94	462.06
PZ-211-SD	487.46	20.97	466.49
PZ-212-SD	482.72	13.72	469.00
Keokuk Zone			
PZ-100-KS	486.36	22.83	463.53
PZ-104-KS	484.60	15.73	468.87
PZ-106-KS	464.73	1.93	462.80
PZ-111-KS	465.80	6.52	459.28

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 5/1/2017.

* - 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	NM ⁴	NM ⁴	NM ⁴
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-5B	235.30	21.90	19.60	41.50	276.80
LCS-6B	429.52	9.40	10.40	19.80	449.32

Notes:

Depths and heights of leachate recorded by Bridgeton Landfill personnel on 5/1/17.

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-4B was greater than the transducer during 5/1/17 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-1D and LCS-2D was not operational during the 5/1/17 event. Scheduled for maintenance.



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	5/1/2017	1326	37.08	38.10	107.72	107.65	
D-81		1449	19.37	21.11	62.55	62.49	
D-85		0812	25.82	27.30	76.43	76.73	
D-87		0855	33.64	34.90	115.17	115.15	
I-4		1329	34.49	35.55	35.90	35.85*	*Apparent blockage in PVC.
I-67		1349	10.60	12.19	40.44	40.45	
I-68		1353	18.38	20.47	40.46	40.47	
I-73		0957	30.79	32.04	50.57	50.56	
LR-100		0950	15.79	16.73	26.98	26.98	
LR-103		0942	39.46	40.65	49.82	49.81	
MW-103		1505	6.95	9.61	14.41	14.40	
MW-104		1453	9.14	11.19	18.94	18.95	
MW-1204		1023	9.58	10.12	N/A	215.21	
PZ-100-KS		0830	22.83	23.61	N/A	383.68	
PZ-100-SD		0828	30.97	31.41	96.21 (Top of Pump)	96.27 (Top of Pump)	
PZ-100-SS		0826	29.89	29.94	89.33 (Top of Pump)	89.34 (Top of Pump)	
PZ-101-SS		1128	38.54	39.10	157.11	157.35	
PZ-102-SS		1120	21.45	22.62	91.27	91.27	
PZ-102R-SS		1123	25.20	26.62	94.02	94.03	
PZ-103-SS		1116	15.33	16.79	149.65	149.63	
PZ-104-KS		1053	15.73	17.16	93.29 (Top of Pump)	93.01 (Top of Pump)	
PZ-104-SD		1050	20.21	21.30	120.62 (Top of Pump)	120.61 (Top of Pump)	
PZ-104-SS		1047	19.49	20.33	140.29 (Top of Pump)	140.54 (Top of Pump)	
PZ-105-SS		1035	22.45	23.79	144.92 (Top of Pump)	144.63 (Top of Pump)	
PZ-106-KS		1012	1.93	2.73	N/A	375.00	
PZ-106-SD		1014	13.69	14.48	196.45 (Top of Pump)	196.47 (Top of Pump)	
PZ-106-SS		1017	12.98	13.82	161.39 (Top of Pump)	161.40 (Top of Pump)	
PZ-107-SS		1007	33.66	34.23	103.67	103.72	
PZ-109-SS	5/1/2017	0932	20.59	22.08	130.98 (Top of Pump)	130.92 (Top of Pump)	



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	5/1/2017	Damaged		31.10		107.19 (Top of Pump)	Not Measurable
PZ-111-KS	↑	0918	6.52	7.13	N/A	374.61	
PZ-111-SD		0916	36.05	36.04	197.08 (Top of Pump)	197.16 (Top of Pump)	
PZ-112-AS		0902	31.45	32.59	38.45	38.35	
PZ-113-AD		0906	30.68	31.78	109.95	109.95	
PZ-113-AS		0909	30.65	31.69	39.22	39.18	
PZ-113-SS		0911	30.78	31.96	160.28	160.27	
PZ-114-AS		0818	18.25	20.85	26.04 (Top of Pump)	26.29 (Top of Pump)	
PZ-115-SS		0820	12.61	15.39	81.03 (Top of Pump)	81.04 (Top of Pump)	
PZ-116-SS		1024	12.69	12.98	142.87 (Top of Pump)	142.68 (Top of Pump)	
PZ-200-SS		0835	21.85	22.18	99.35	99.28	Labeled as GMP-7
PZ-201A-SS		0839	11.75	12.75	86.28 (Top of Pump)	86.09 (Top of Pump)	
PZ-202-SS		1111	10.45	12.14	95.19 (Top of Pump)	85.19 (Top of Pump)	
PZ-203-SS		1030	23.99	25.05	111.29	111.30	
PZ-204-SS		1430	8.33	8.98	87.98		
PZ-204A-SS		1427	3.95	4.66	84.74	84.62	
PZ-205-AS		1000	32.25	33.10	53.85	53.83	
PZ-205-SS		1002	30.54	32.19	103.61 (Top of Pump)	92.84 (Top of Pump)	TD measured w/out pump
PZ-206-SS		0937	28.85	29.72	129.85	129.84	
PZ-207-AS		0804	31.25	32.56	38.94	38.97	
PZ-208-SS		0846	17.59	19.92	100.35	100.30	
PZ-209-SD		1103	28.36	23.65	101.40 (Top of Pump)	101.33 (Top of Pump)	
PZ-209-SS		1105	20.94	21.98	99.89 (Top of Pump)	99.88 (Top of Pump)	
PZ-210-SD		1043	24.94	26.19	101.60 (Top of Pump)	101.72 (Top of Pump)	
PZ-210-SS		1042	24.59	25.60	101.46 (Top of Pump)	101.48 (Top of Pump)	
PZ-211-SD		1057	20.97	22.33	99.02 (Top of Pump)	99.29 (Top of Pump)	
PZ-211-SS		1059	19.44	20.36	98.12 (Top of Pump)	98.13 (Top of Pump)	
PZ-212-SD		1411	13.72	14.80	92.76 (Top of Pump)	92.75 (Top of Pump)	
PZ-212-SS	5/1/2017	1409	7.40	11.39	93.89 (Top of Pump)	93.88 (Top of Pump)	



GROUNDWATER ELEVATION MEASUREMENTS

Site:

Bridgeton Landfill, Bridgeton, Missouri

Personnel:

Michael Spurgeon & Jonathan Wilkinson

**APPENDIX C
STATISTICAL EVALUATIONS
ALLUVIAL ZONE**

**TREND EVALUATION OF
BACKGROUND DATA**

Trend Test

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

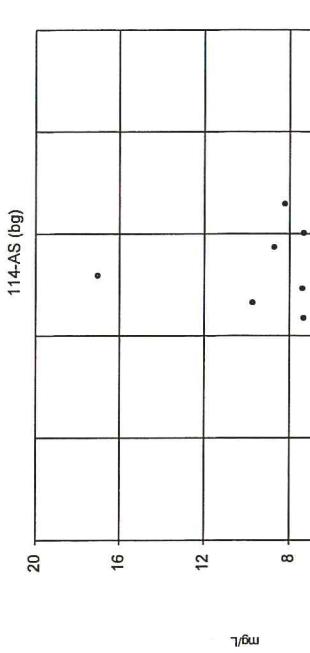
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Data: BRIDGETON

Client: RSI

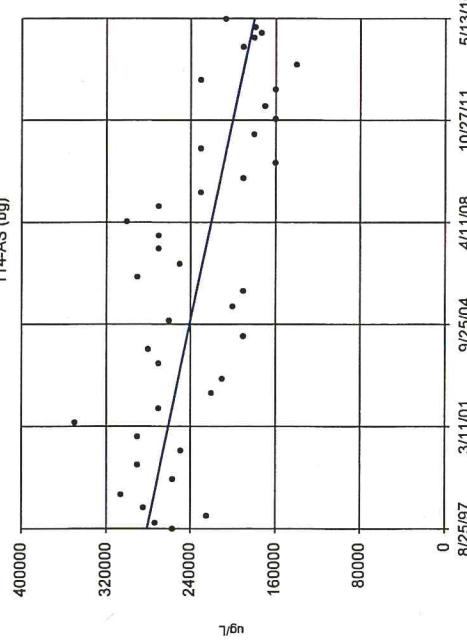
Bridgeton LF

Sen's Slope Estimator



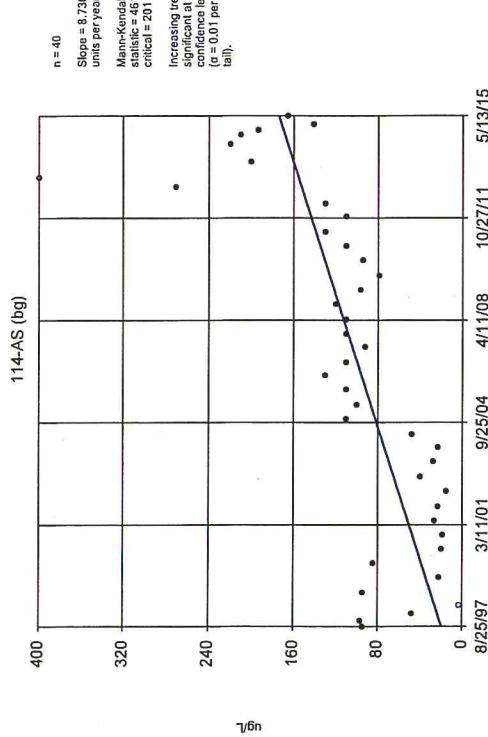
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Bridgerton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



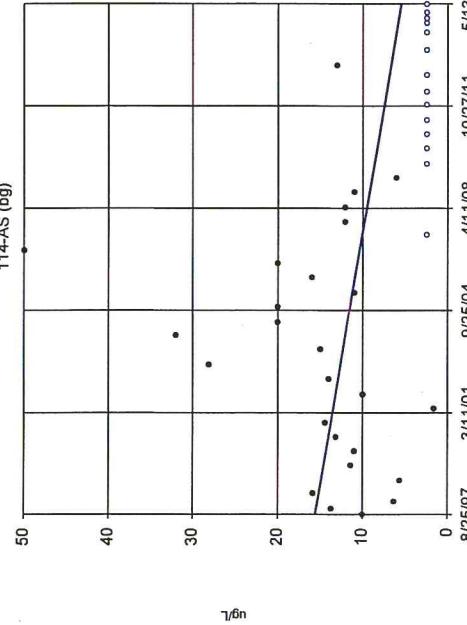
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Bridgerton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



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

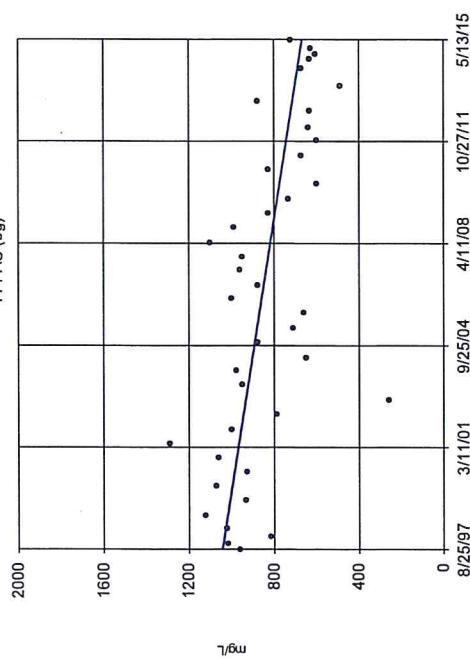
Sen's Slope Estimator



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

Sen's Slope Estimator

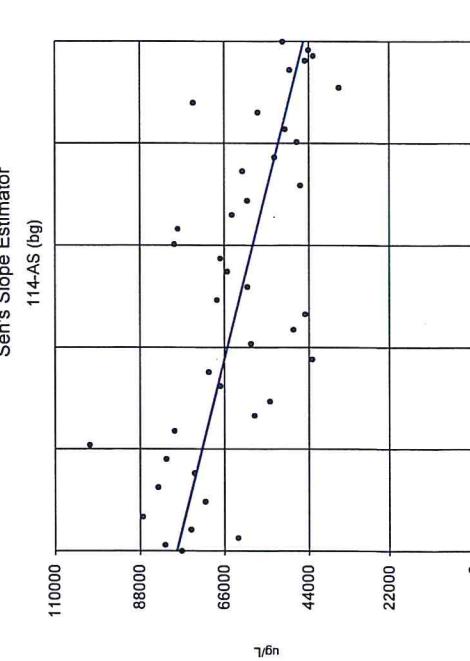
114-AS (bg)



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

Sen's Slope Estimator

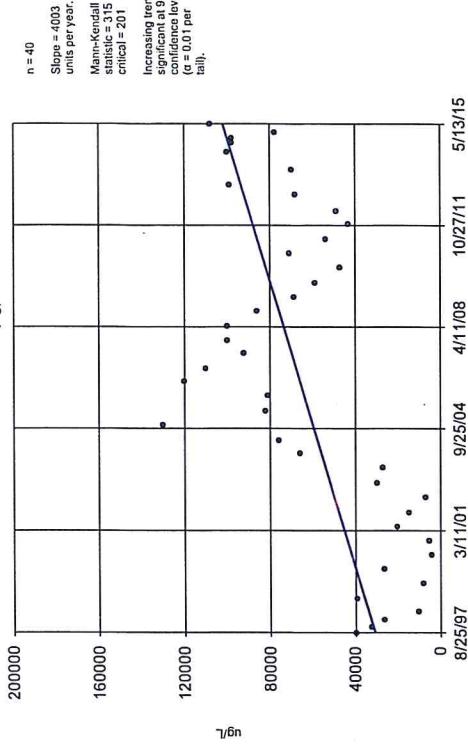
114-AS (bg)



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

Sen's Slope Estimator

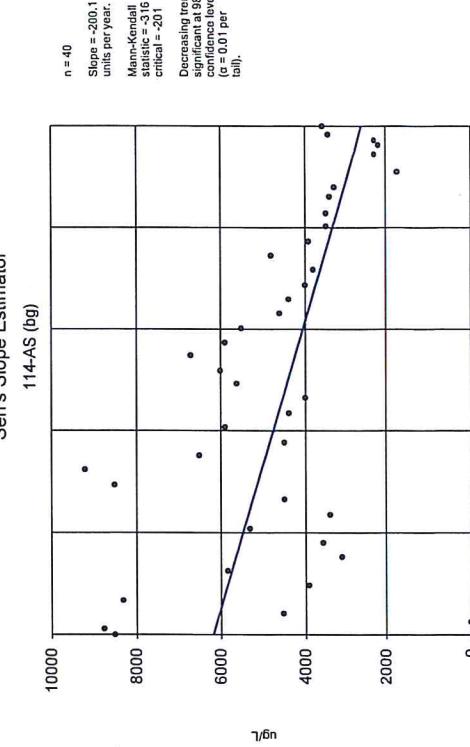
114-AS (bg)



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

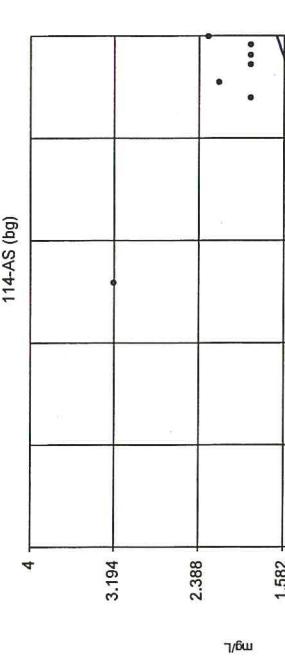
Sen's Slope Estimator

114-AS (bg)

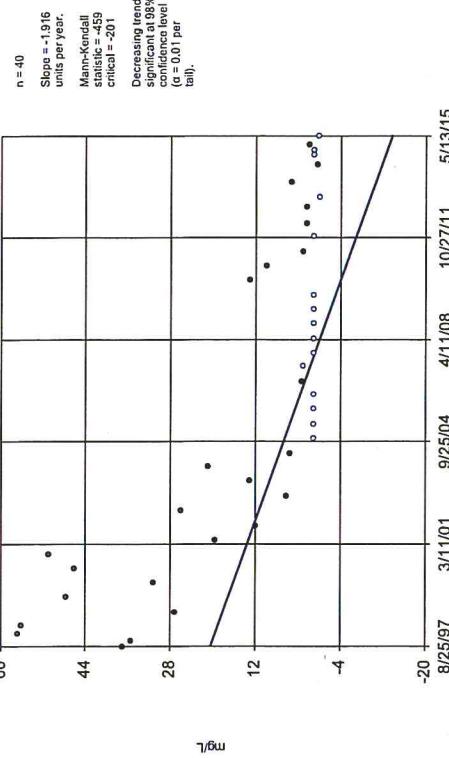


Constituent: Manganese Total Analysis Run 1/7/2016 1:01 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



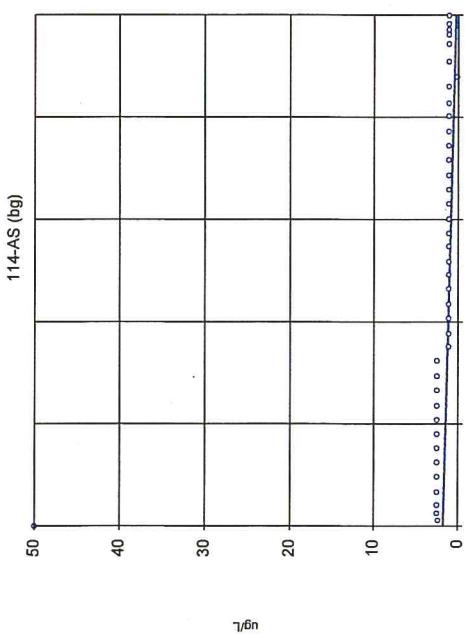
Sen's Slope Estimator



n = 40
Slope = 0.093466 units per year.
Mann-Kendall statistic = 201
critical = 201
Increasing trend significant at 99% confidence level ($\alpha = 0.01$ per tail).

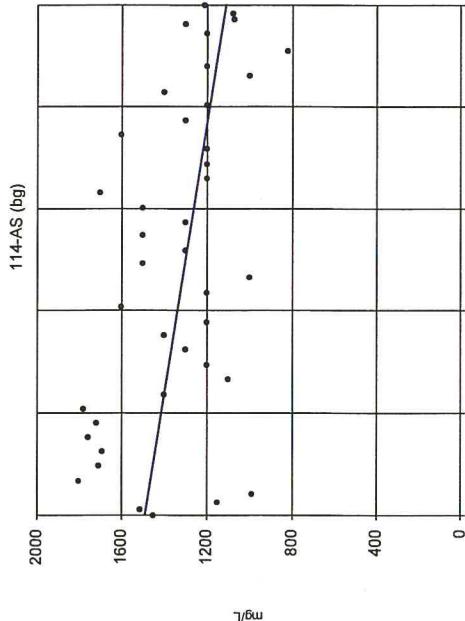
Constituent: Thallium Total Analysis Run 1/7/2016 1:01 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



n = 40
Slope = -0.08238 units per year.
Mann-Kendall statistic = 201
critical = 201
Decreasing trend significant at 99% confidence level ($\alpha = 0.01$ per tail).

Sen's Slope Estimator



n = 40
Slope = 21.33 units per year.
Mann-Kendall statistic = -201
critical = -201
Decreasing trend significant at 99% confidence level ($\alpha = 0.01$ per tail).

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

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

INTRA-WELL PREDICTION LIMITS

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

Alluvial Zone

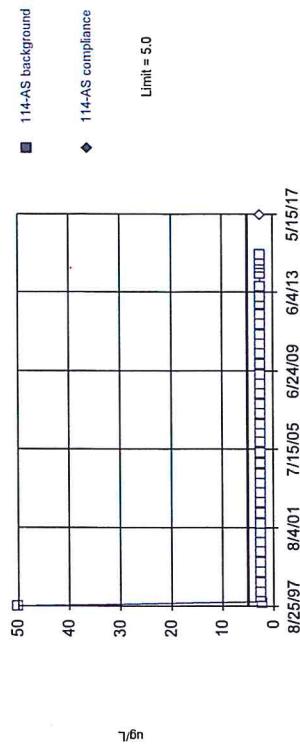
- Ammonia as N at PZ-114-AS (8/97 through 9/14)
- Arsenic (Total) at PZ-114-AS (8/97 through 11/07)
- Iron (Total) at PZ-114-AS (8/97 through 5/06)
- Phosphorus (Total) at PZ-114-AS (8/97 through 11/05)

Prediction Limit

Bridgeport LF								Data: Bridgeport LF		Printed 7/11/2017, 2:21 PM	
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Std. Dev.	Bg N	Bg Mean	Std. Dev.	%ANDs	
Ammonia as N (mg/L)	114-AS	31	n/a	5/15/2017	6.2	No	37	0.2618	1.512	2.703	
Antimony Total (ug/L)	114-AS	5.0	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	100	
Arsenic Total (ug/L)	114-AS	190	n/a	5/15/2017	106	No	23	7.394	2.888	4.348	
Barium Total (ug/L)	114-AS	1100	n/a	5/15/2017	1000	No	40	6.583	0.2171	0	
Beryllium Total (ug/L)	114-AS	2.0	n/a	5/15/2017	1ND	No	40	n/a	n/a	100	
Boron Total (ug/L)	114-AS	660	n/a	5/15/2017	288	No	40	n/a	n/a	0	
Cadmium Total (ug/L)	114-AS	5.9	n/a	5/15/2017	0.1ND	No	40	n/a	n/a	92.5	
Calcium Total (ug/L)	114-AS	340000	n/a	5/15/2017	197000	No	40	232475	56510	0	
Chemical Oxygen Demand [COD] (mg/L)	114-AS	250	n/a	5/15/2017	32.5	No	40	3.906	1.151	7.5	
Chloride (mg/L)	114-AS	600	n/a	5/15/2017	437	No	40	18.41	2.965	0	
Chromium Total (ug/L)	114-AS	5.4	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	97.5	
Cobalt Total (ug/L)	114-AS	50	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	37.5	
Copper Total (ug/L)	114-AS	110	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	87.5	
Fluoride (mg/L)	114-AS	0.45	n/a	5/15/2017	0.12	No	25	0.2589	0.08723	8	
Hardness Total (mg/L)	114-AS	1300	n/a	5/15/2017	712	No	40	828.3	205.5	0	
Iron Total (ug/L)	114-AS	170000	n/a	5/15/2017	67900	No	20	31.84	10.42	0	
Lead Total (ug/L)	114-AS	25	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	97.5	
Magnesium Total (ug/L)	114-AS	98000	n/a	5/15/2017	53200	No	40	39.5	3.161	0	
Manganese Total (ug/L)	114-AS	10000	n/a	5/15/2017	4700	No	39	8.401	0.3974	0	
Mercury Total (ug/L)	114-AS	0.20	n/a	5/15/2017	0.1ND	No	40	n/a	n/a	100	
Nickel Total (ug/L)	114-AS	84	n/a	5/15/2017	5ND	No	40	n/a	n/a	62.5	
Nitrate/Nitrite (mg/L)	114-AS	5.0	n/a	5/15/2017	0.05ND	No	40	n/a	n/a	82.5	
pH [Field] (su)	114-AS	7	6.2	5/15/2017	6.53	No	37	1.888	0.02947	0	
Phosphorus Total (mg/L)	114-AS	2	n/a	5/15/2017	1.6	No	19	0.7295	0.2274	5.263	
Selenium Total (ug/L)	114-AS	5.0	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	100	
Silver Total (ug/L)	114-AS	5.0	n/a	5/15/2017	2.5ND	No	40	n/a	n/a	100	
Sodium Total (ug/L)	114-AS	330000	n/a	5/15/2017	173000	No	40	12.09	0.2948	0	
Specific Conductance [Field] (umhos/cm)	114-AS	3400	n/a	5/15/2017	2480	No	39	2313	528.9	0	
Sulfate (mg/L)	114-AS	57	n/a	5/15/2017	39	No	40	n/a	n/a	37.5	
Thallium Total (ug/L)	114-AS	2.0	n/a	5/15/2017	1ND	No	40	n/a	n/a	100	
Total Dissolved Solids [TDS] (mg/L)	114-AS	2000	n/a	5/15/2017	1470	No	40	7.186	1.0882	0	
Total Organic Carbon [TOC] (mg/L)	114-AS	44	n/a	5/15/2017	11.6	No	40	2.244	0.6242	10	
Zinc Total (ug/L)	114-AS	12	n/a	5/15/2017	5ND	No	40	n/a	n/a	95	
Zinc Total (ug/L)	114-AS	48	n/a	5/15/2017	10ND	No	40	n/a	n/a	90	

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Hollow symbols indicate censored values.

Within Limit
Intrawell Non-parametric

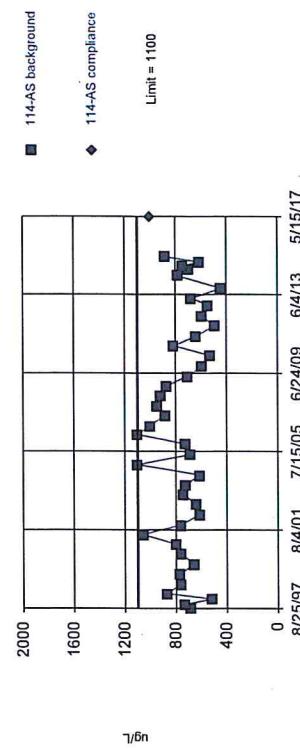


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Antimony Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.583, Std. Dev.=0.2171, n=40. Normally test, Shapiro Wilk @alpha = 0.01, calculated = 0.9819, critical = 0.9719. Kappa = 0.076 (e=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 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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

Constituent: Beryllium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cadmium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit



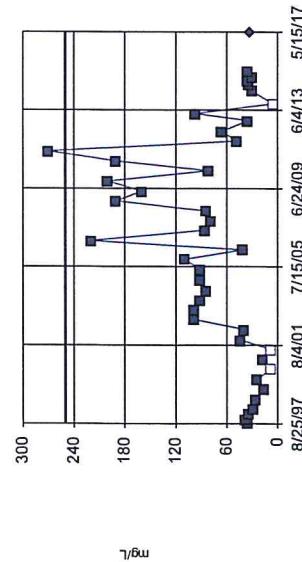
Background Data Summary: Mean=232475, Std. Dev.=50510, n=40, Normality test: Shapiro Wilk @alpha = 0.01, calculated 4. EPA 1986 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

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

Prediction Limit
Intrawell Parametric
Within Limit

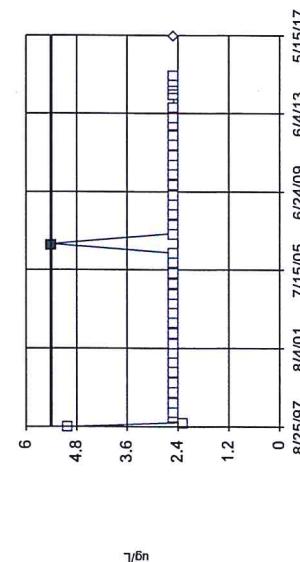


Background Data Summary (based on cube root transformation): Mean=3.906, Std. Dev.=1.151, n=40, 7.5% NDs.
Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.919. Kappa = 2076 (c=34, w=1, 1 of 2, even event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening 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 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

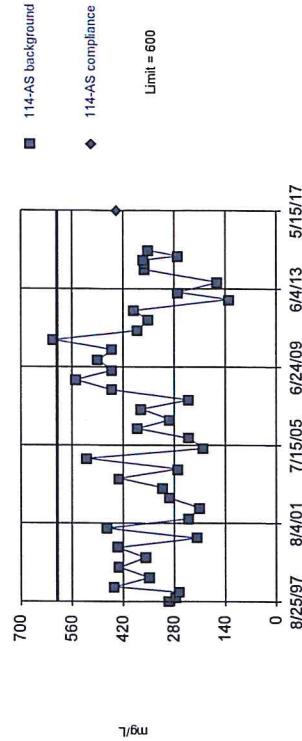


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Chromium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Parametric
Within Limit

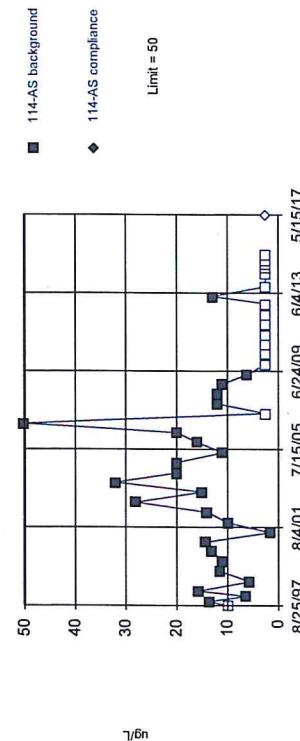


Background Data Summary (based on square root transformation): Mean=18.41, Std. Dev.=2.995, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9848, critical = 0.919. Kappa = 2076 (n=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

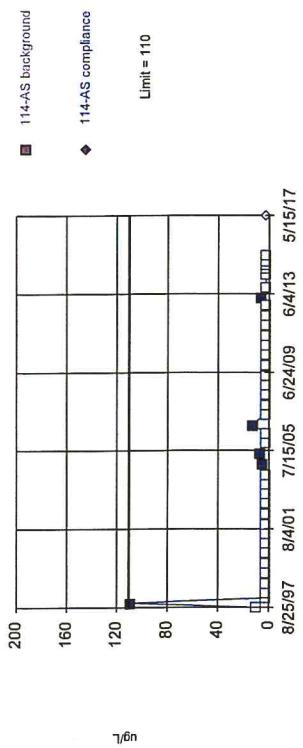


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 31.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

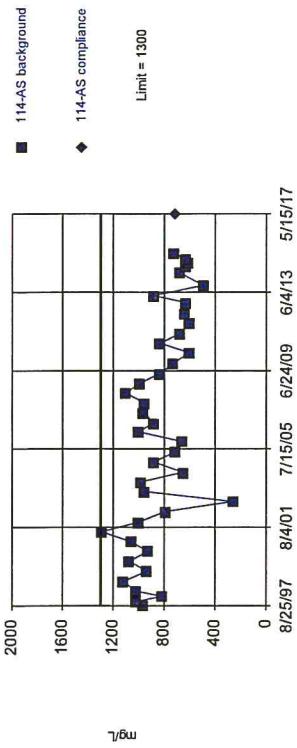


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Weil-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG

Prediction Limit
Intrawell Parametric
Within Limit

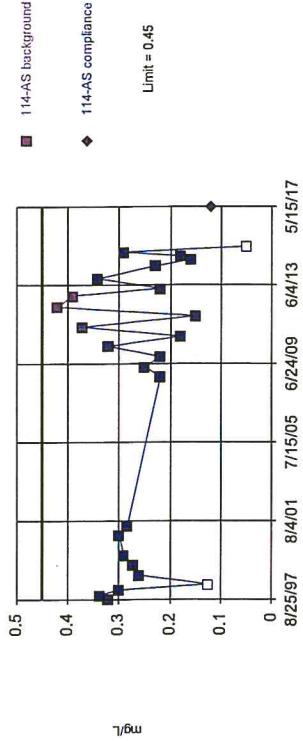


Background Data Summary: Mean=828.3, Std. Dev.=205.5, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9694, critical = 0.919. Kappa = 0.2076 (c=34, w=1, of 2, event alpha = 0.026). Report alpha = 0.0007744. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Hardness Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric
Within Limit

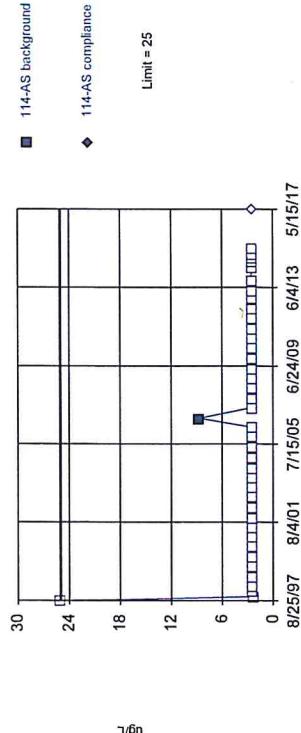


Constituent: Fluoride Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Within Limit
Prediction Limit
Intrawell Parametric

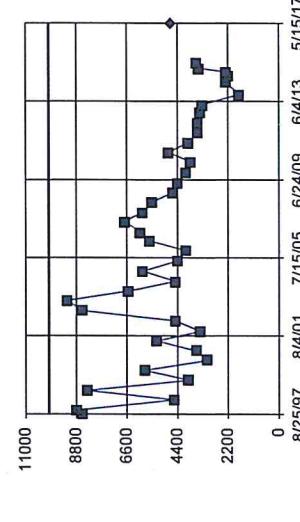


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Lead Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Prediction Limit
Intrawell Parametric

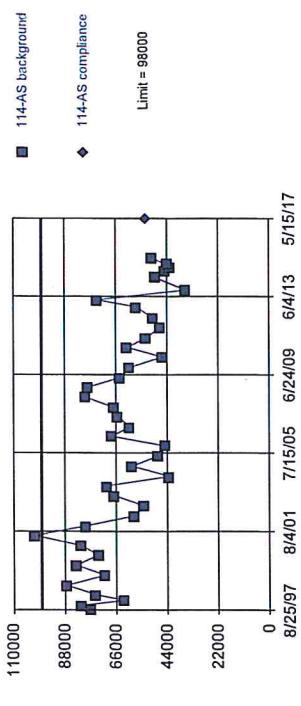


Background Data Summary (based on natural log transformation): Mean=8,401, Std. Dev.=0.3974, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.96, critical = 0.917. Kappa = 2.081 (c=34, w=1, of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data. One background outlier was removed: 6,38 (2/16/1998).

Constituent: Manganese Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara v.9.5.32 Software licensed to Jett Environmental Consulting, UG

Within Limit
Prediction Limit
Intrawell Parametric

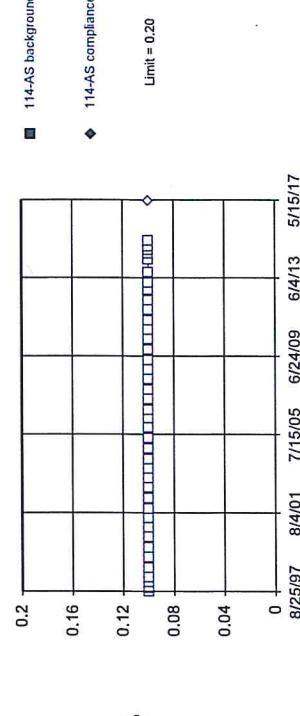


Background Data Summary (based on cube root transformation): Mean=395, Std. Dev.=3,161, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.974, critical = 0.919. Kappa = 2.076 (c=34, w=1, of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

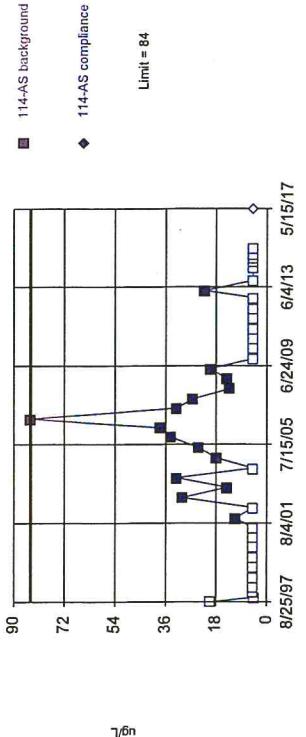
Within Limit
Prediction Limit
Intrawell Non-parametric



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

Constituent: Mercury Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

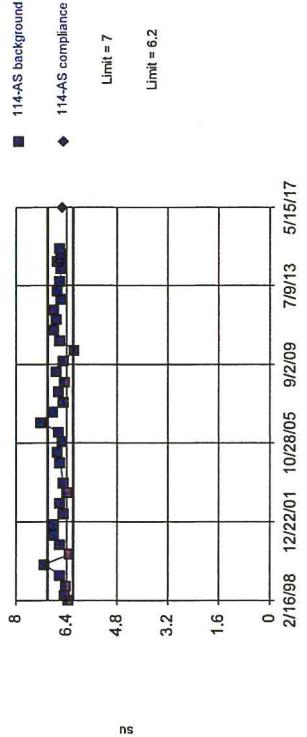
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

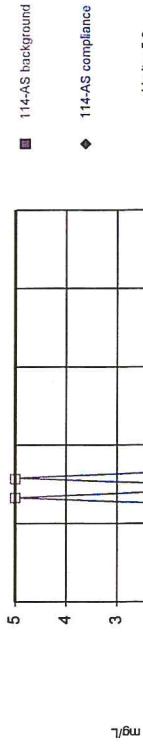
Prediction Limit
Intrawell Parametric
Within Limits



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

Constituent: pH [Field] Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. 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.

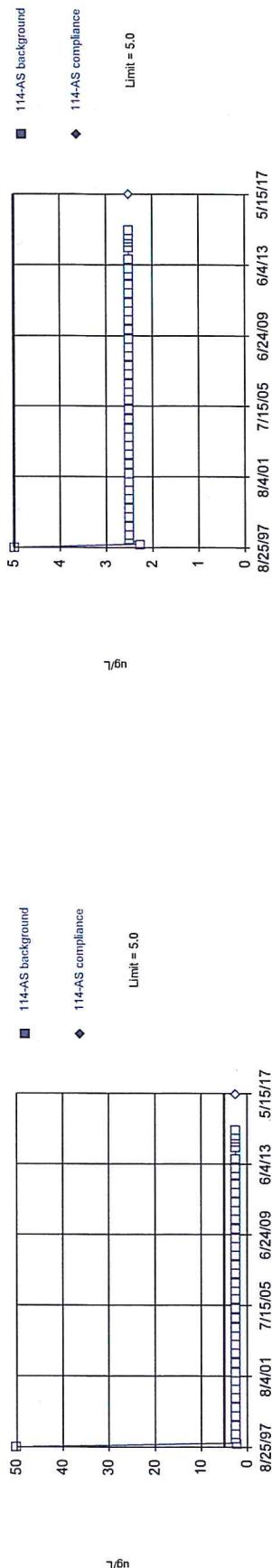
Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric
Within Limits



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

Prediction Limit Intrawell Non-parametric Within Limit

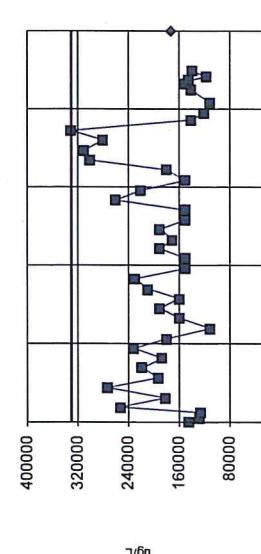


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Parametric Within Limit



Background Data Summary (based on natural log transformation): Mean=12.09, Std. Dev.=0.2948, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.917. Kappa = 2.076 (c=34, we=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 Dions/Rosners), No background outliers were found.

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

Prediction Limit Intrawell Non-parametric Within Limit

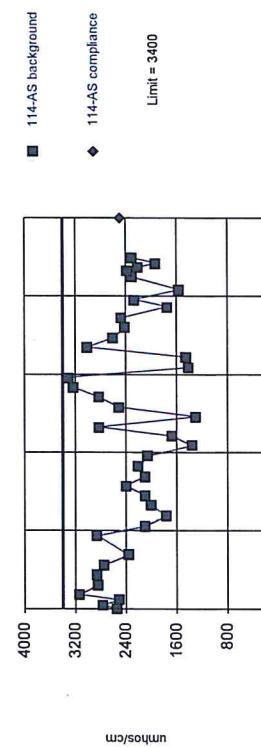


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Silver Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Parametric Within Limit



Background Data Summary: Mean=2313, Std. Dev.=528.9, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9683, critical = 0.917. Kappa = 2.08 (c=34, we=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).

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

Prediction Limit Intrawell Non-parametric Within Limit



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

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Parametric Within Limit



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

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

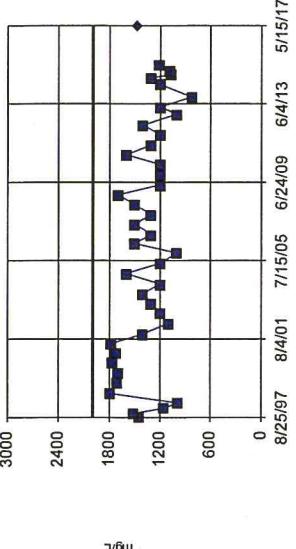
Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values, 37.5% NDs. Wei-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Sulfate Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

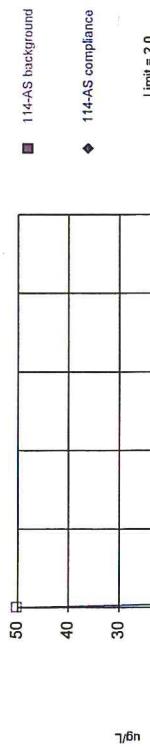
Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Background Data Summary (based on natural log transformation): Mean=7,186 Std. Dev.=0,1882, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9567, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

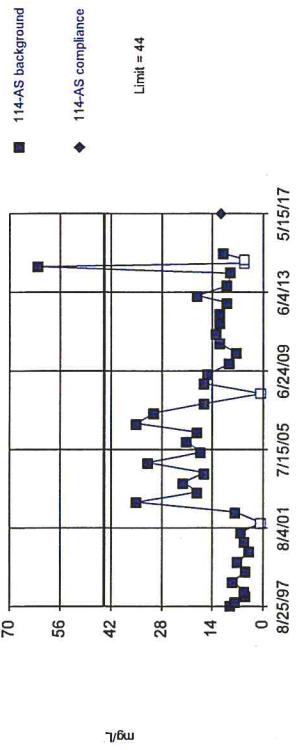
Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

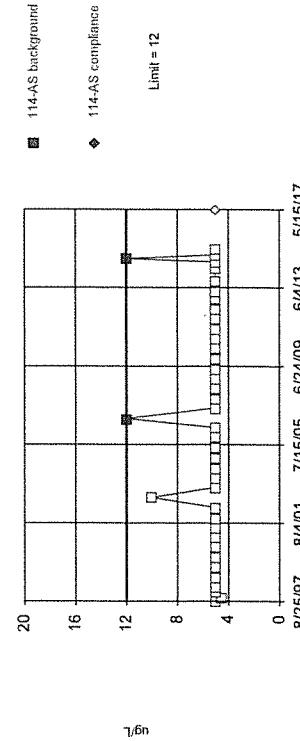


Background Data Summary (based on cube root transformation): Mean=0.6242, Std. Dev.=0.6242, n=40, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9684, critical = 0.919. Kappa = 2.076 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. Distribution was found to be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

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius v3.5.32 Software licensed to Jett Environmental Consulting, LLC
Hollow symbols indicate censored values.
Within Limit

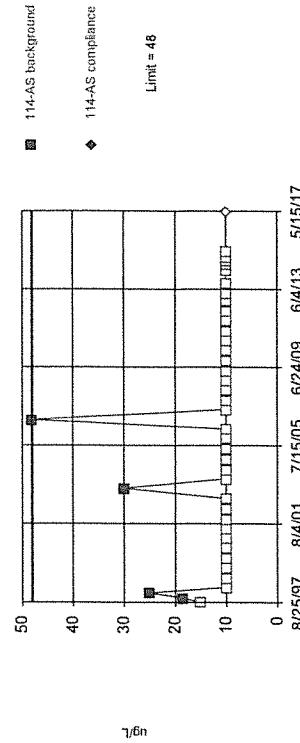
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santius v3.5.32 Software licensed to Jett Environmental Consulting, LLC
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



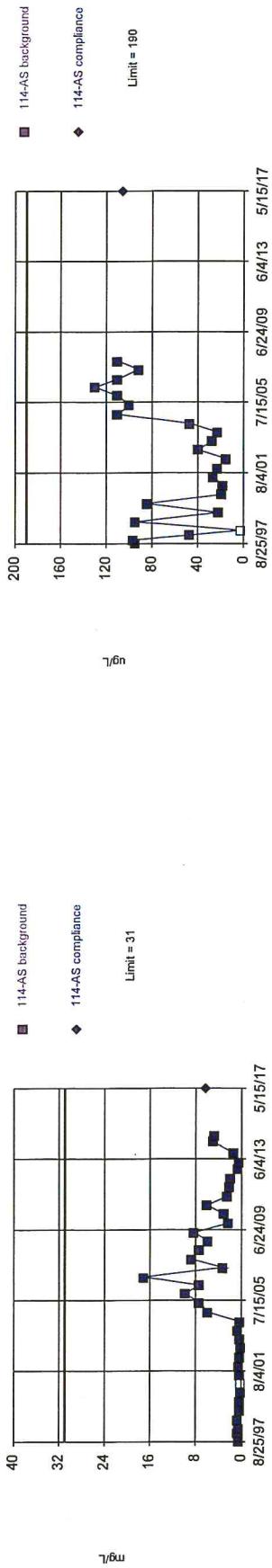
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Zinc Total Analysis Run 7/11/2017 2:15 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Prediction Limit
Intrawell Parametric

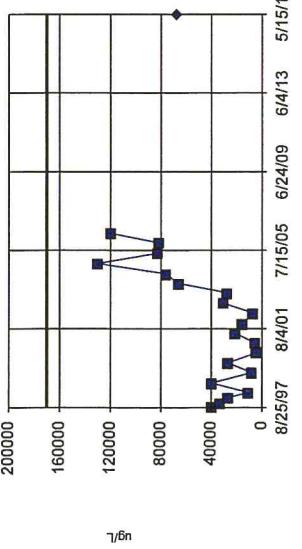


Background Data Summary (based on natural log transformation): Mean=0.2618, Std. Dev.=1.512, n=37, 2,703% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9423, critical = 0.914. Kappa = 2.092 (c=34, w=1, 1 of 2, event alpha = 0.029). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Ammonia N Analysis Run 7/11/2017 2:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric

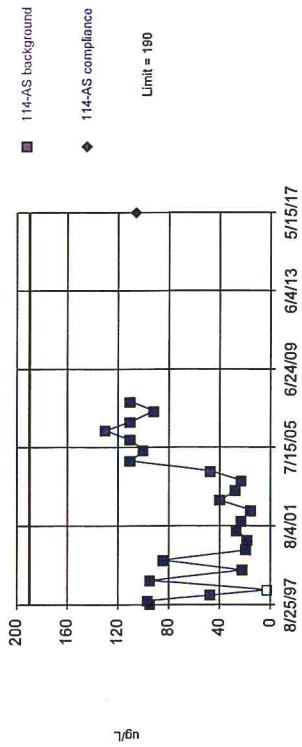


Background Data Summary (based on cube root transformation): Mean=31.84, Std. Dev.=10.42, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.954, critical = 0.868. Kappa = 0.274 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:20 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Prediction Limit
Intrawell Parametric

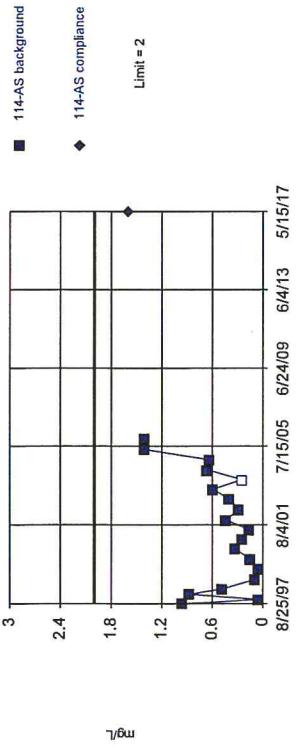


Background Data Summary (based on square root transformation): Mean=7.394, Std. Dev.=2.888, n=23, 4,348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.921, critical = 0.981. Kappa = 2.224 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:19 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric



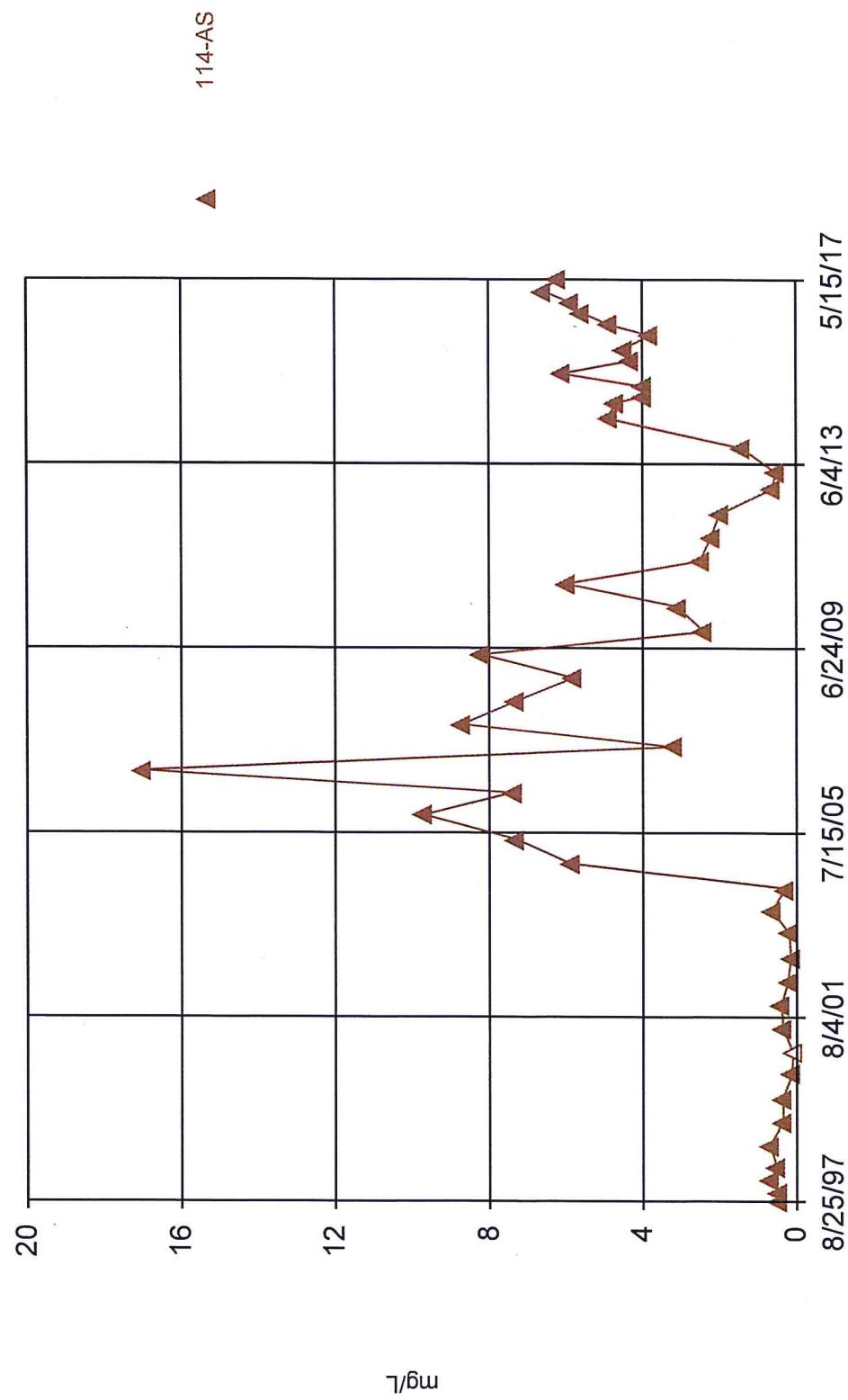
Background Data Summary (based on cube root transformation): Mean=0.7295, Std. Dev.=0.2274, n=19, 5,263% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9712, critical = 0.901. Kappa = 2.302 (c=34, w=1, 1 of 2, event alpha = 0.026). Report alpha = 0.0007744. EPA 1989 outlier screening 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 7/11/2017 2:20 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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

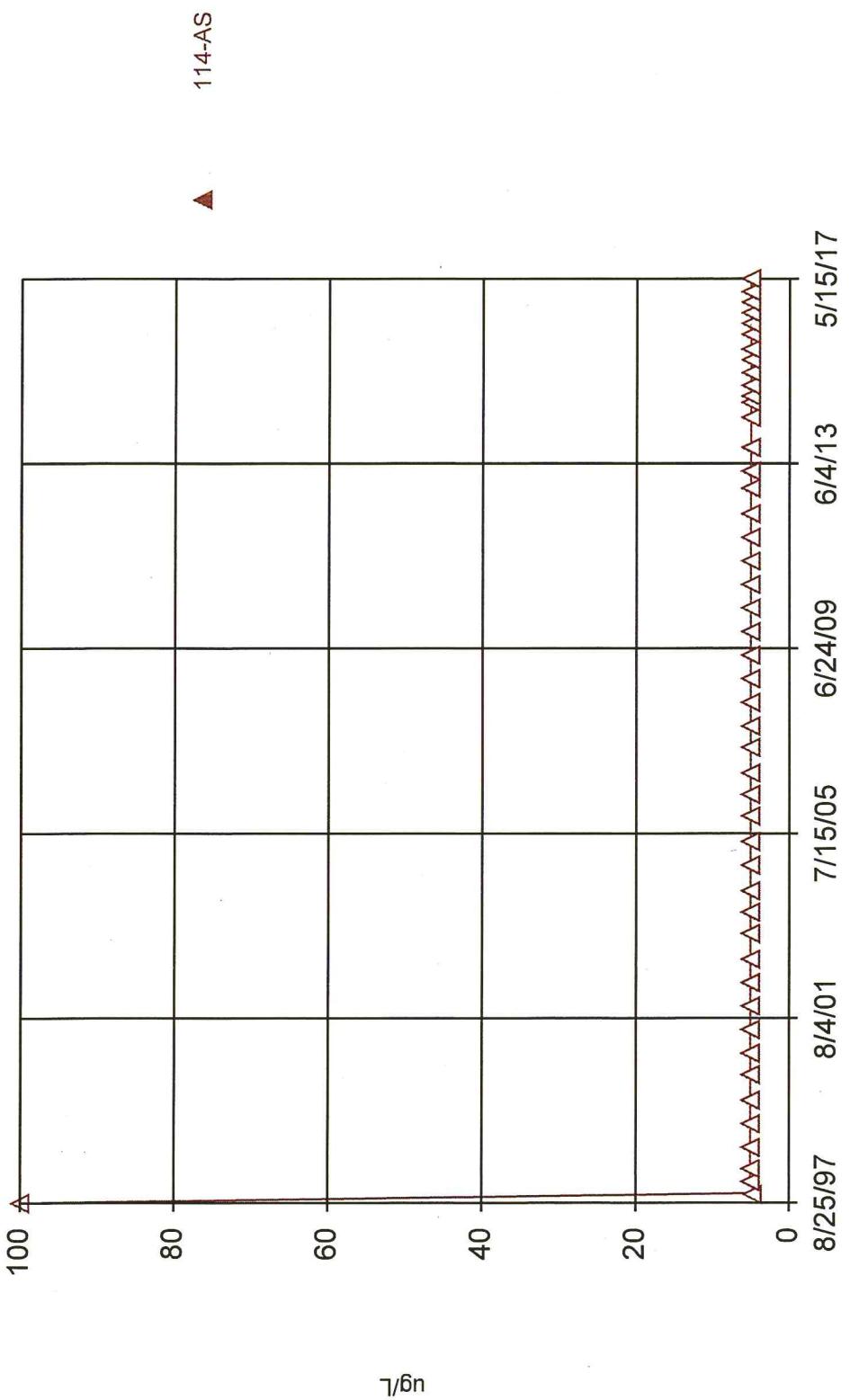
Time Series



Constituent: Ammonia as N Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

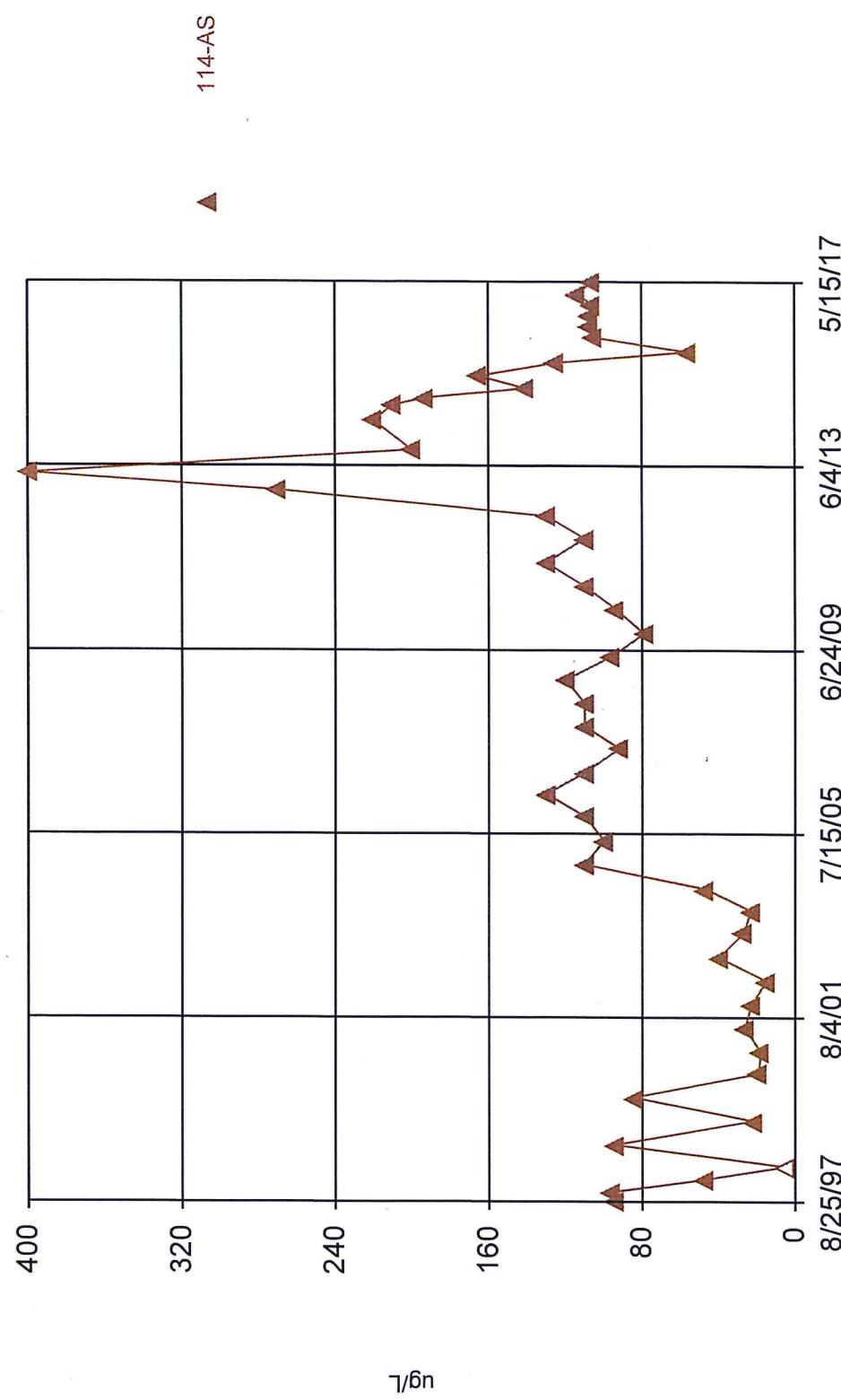
Time Series



Constituent: Antimony Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

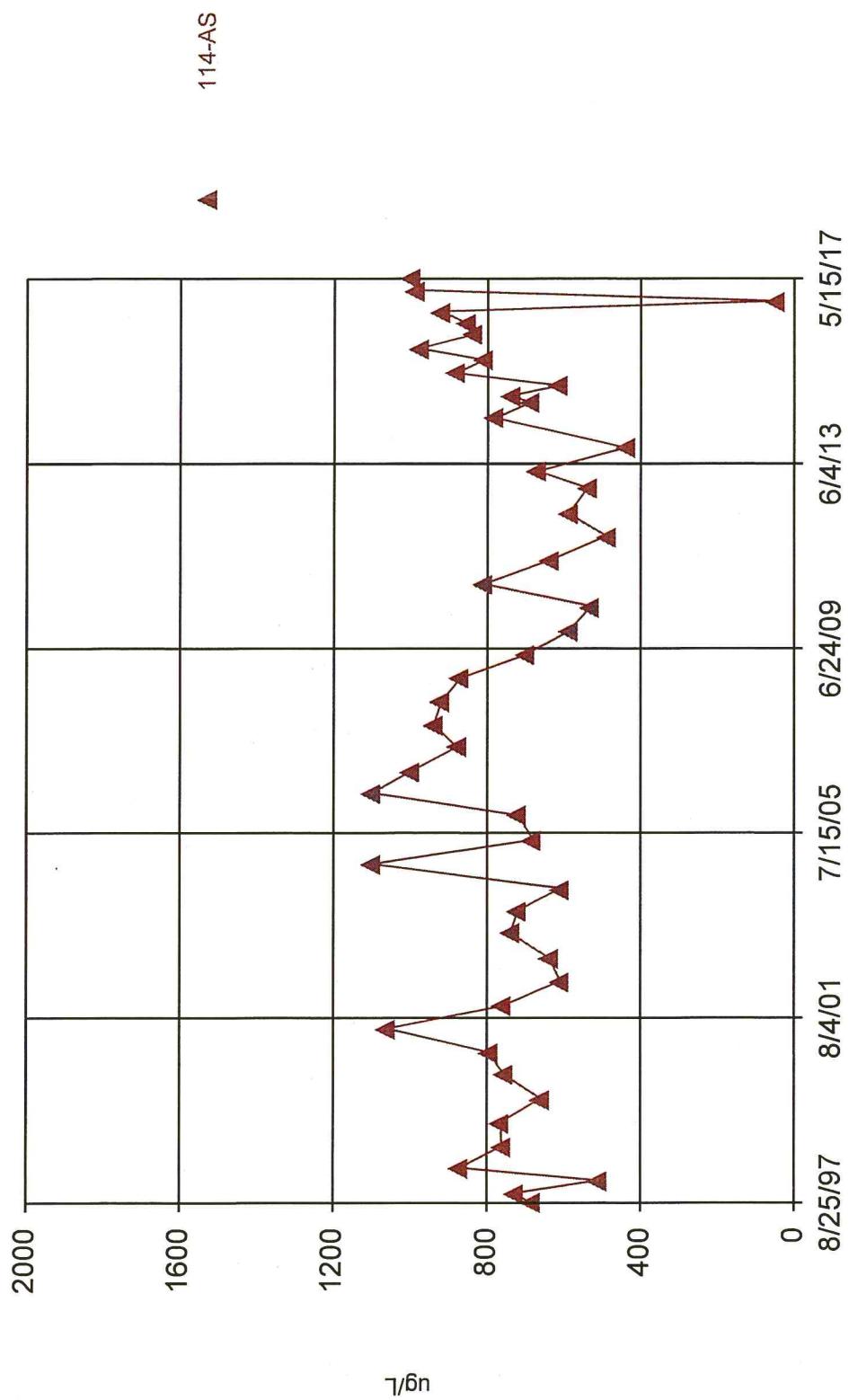
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



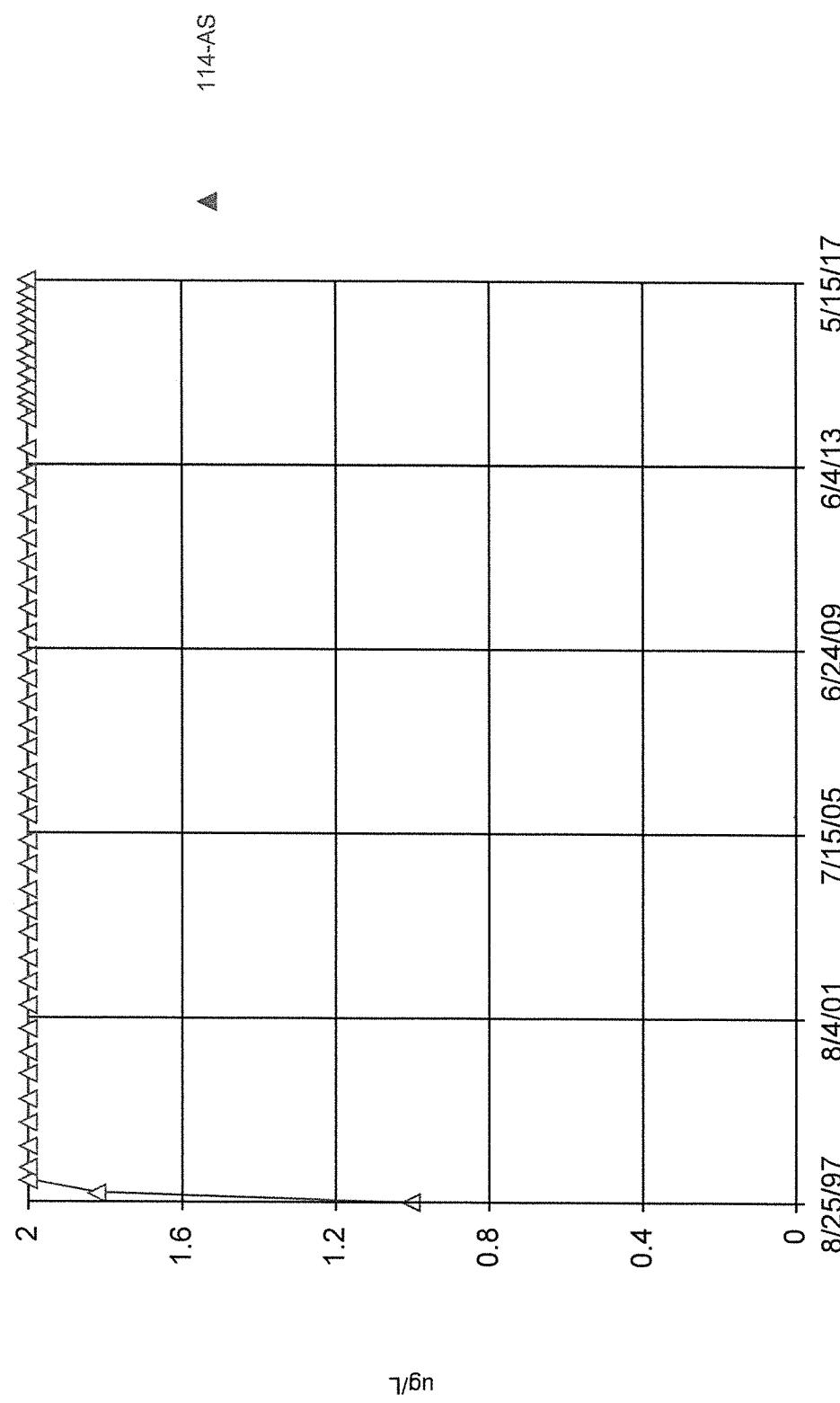
Constituent: Arsenic Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



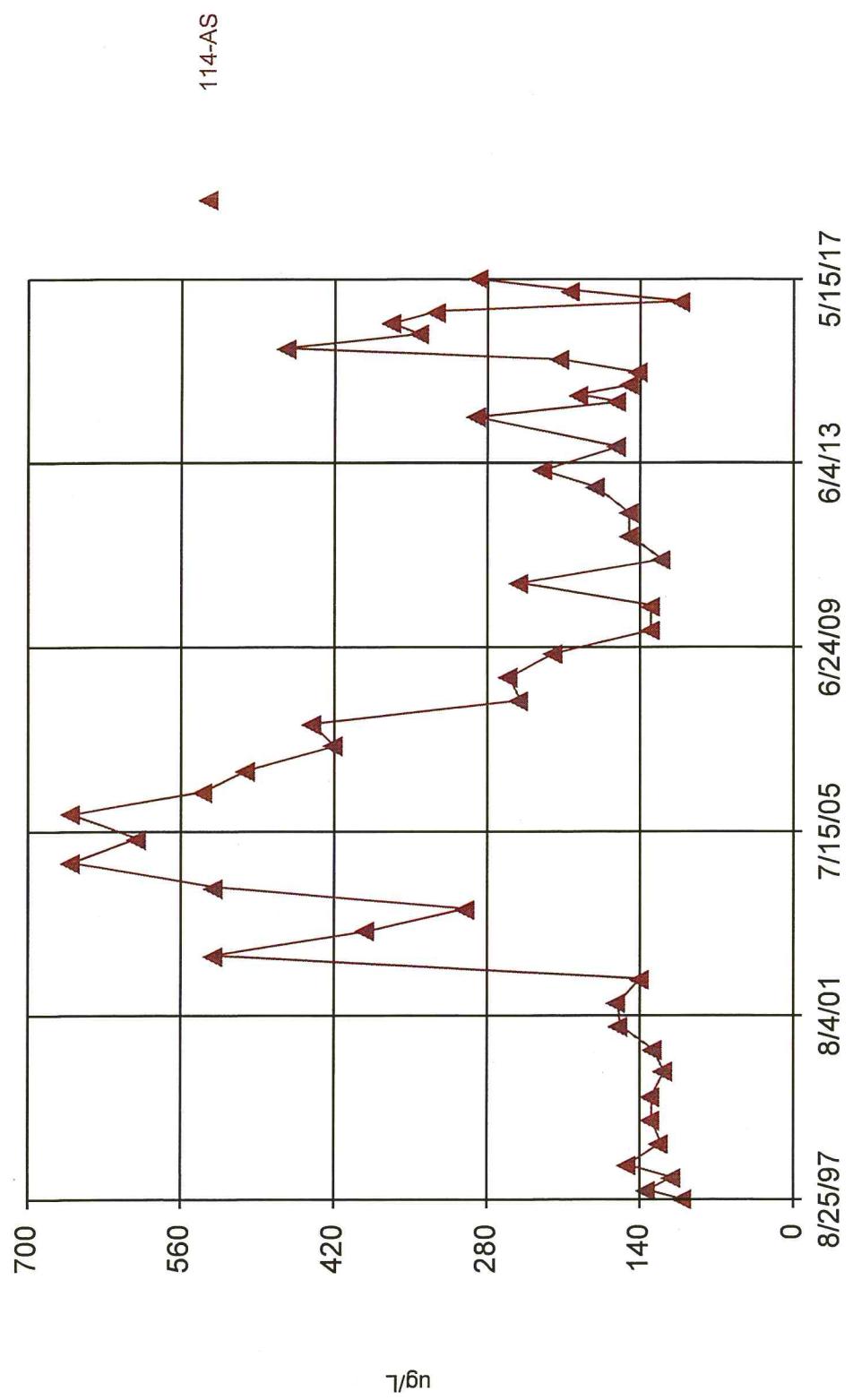
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



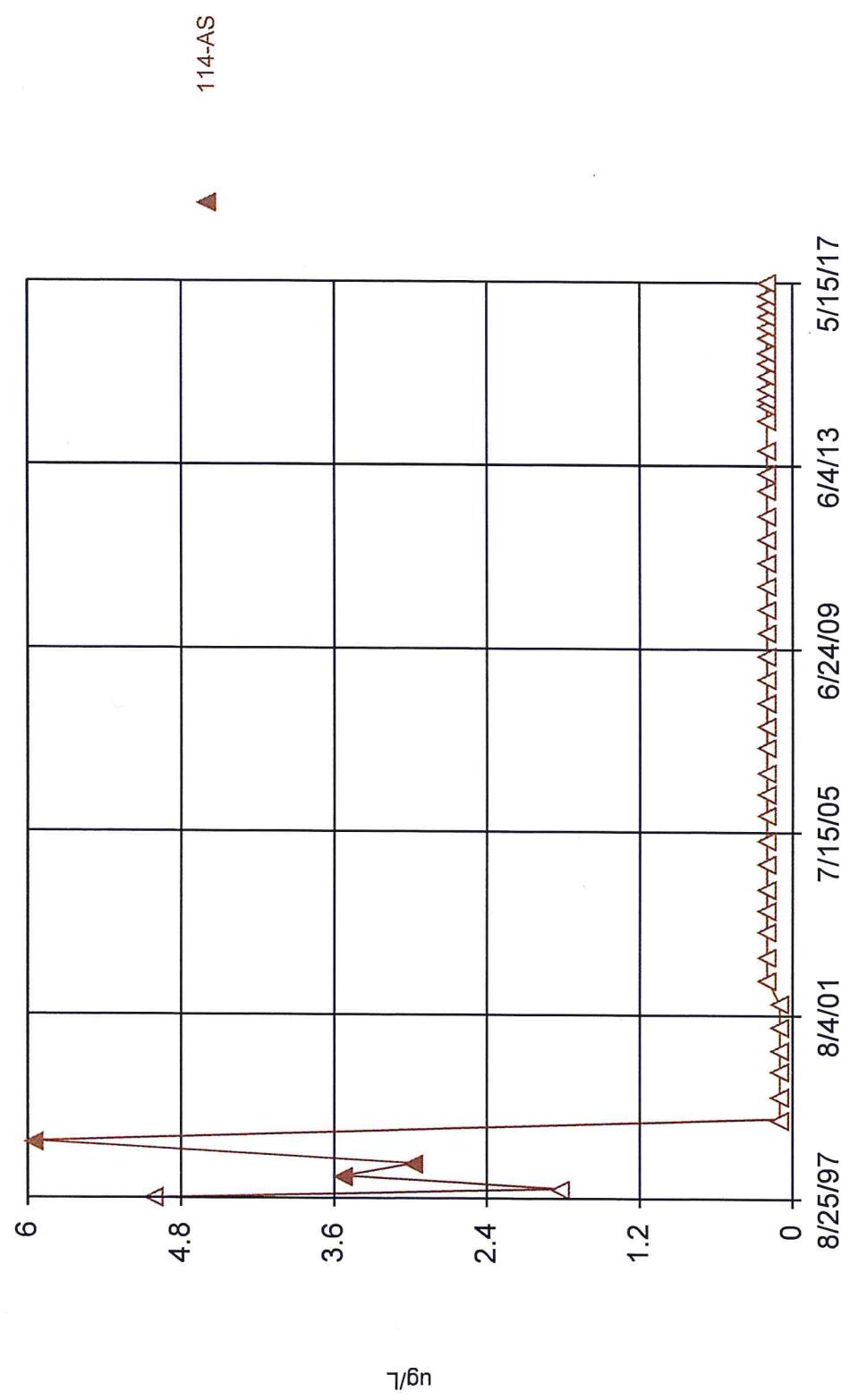
Constituent: Beryllium Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



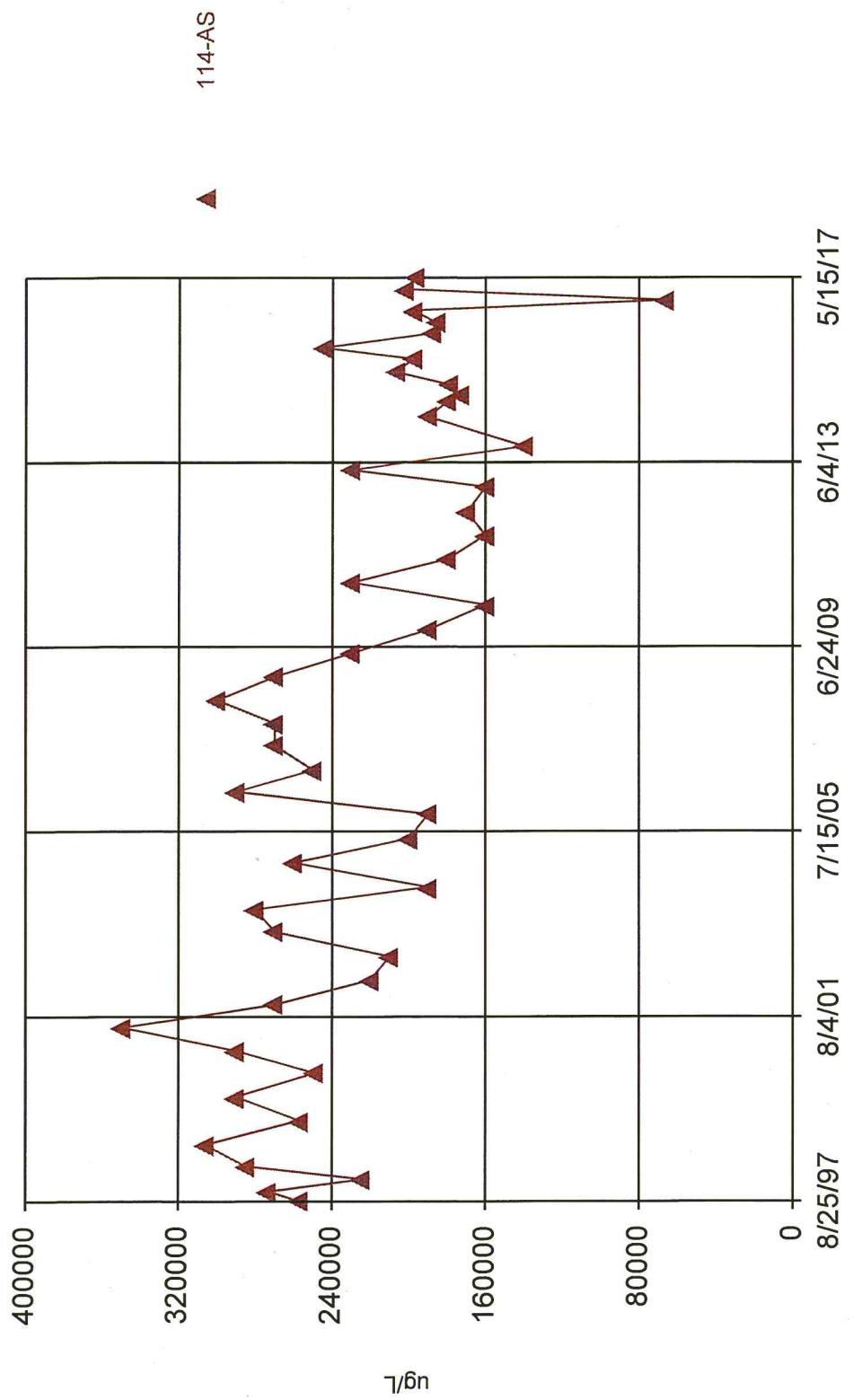
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

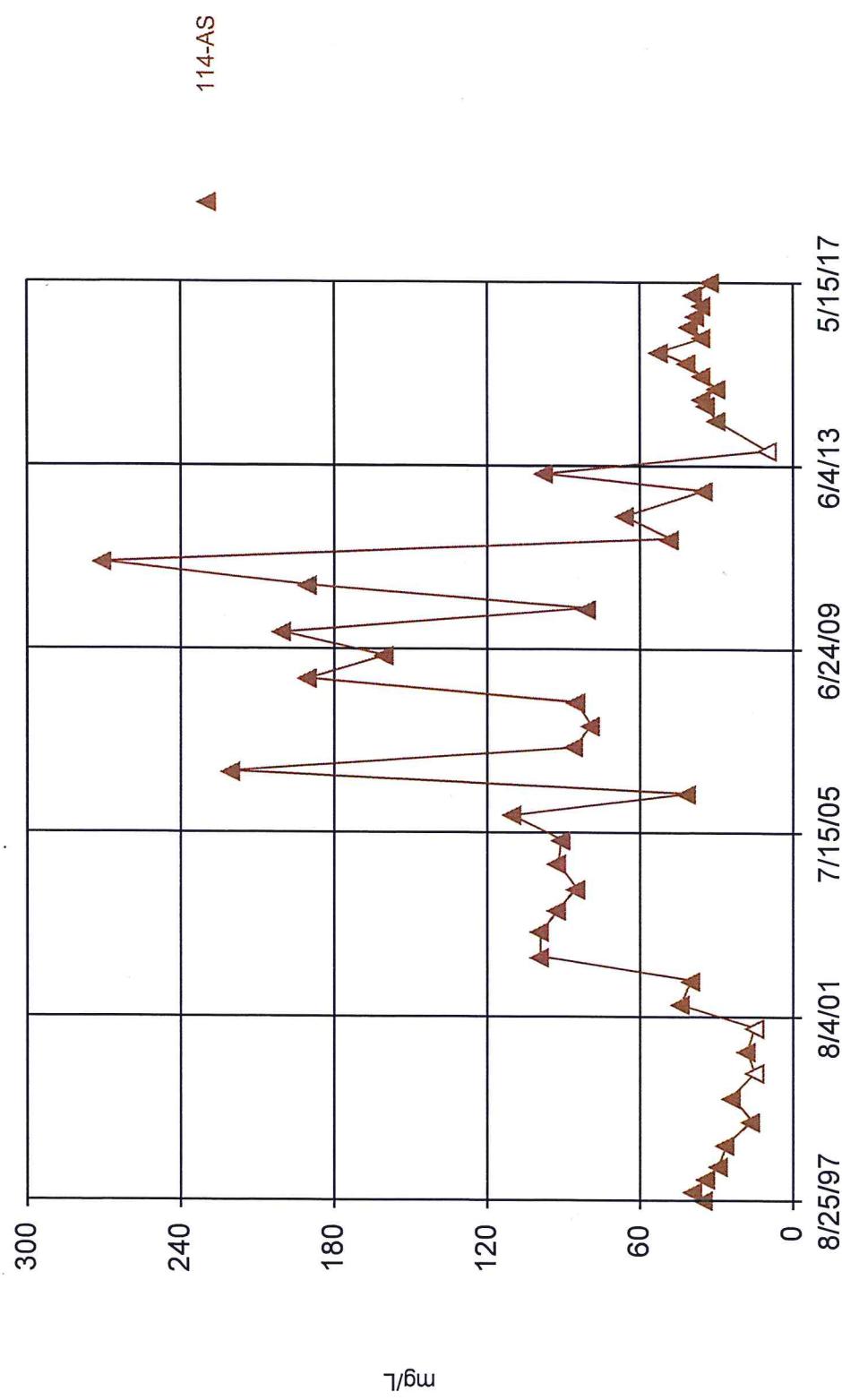
Time Series



Constituent: Calcium Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

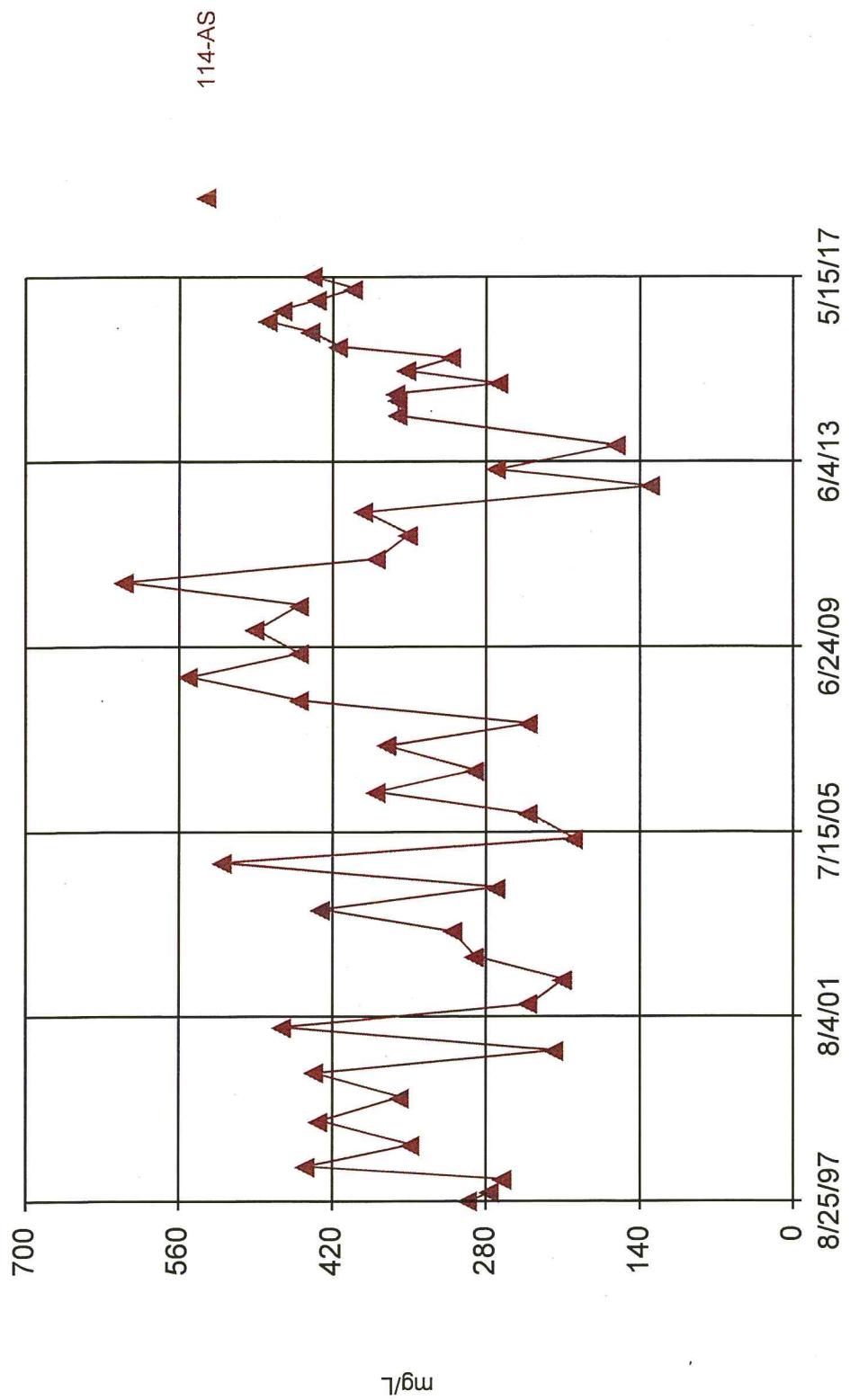
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



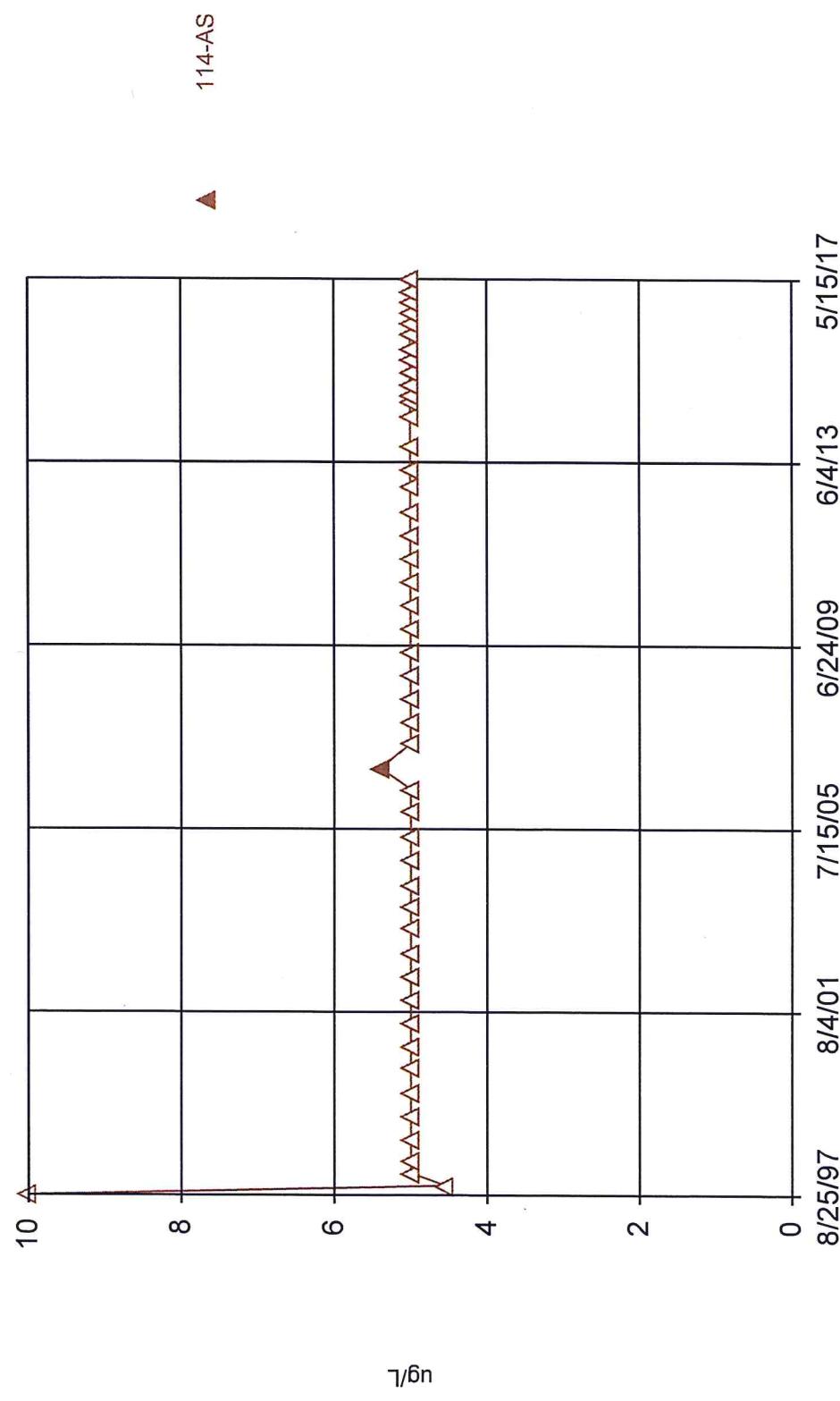
Constituent: Chemical Oxygen Demand [COD] Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



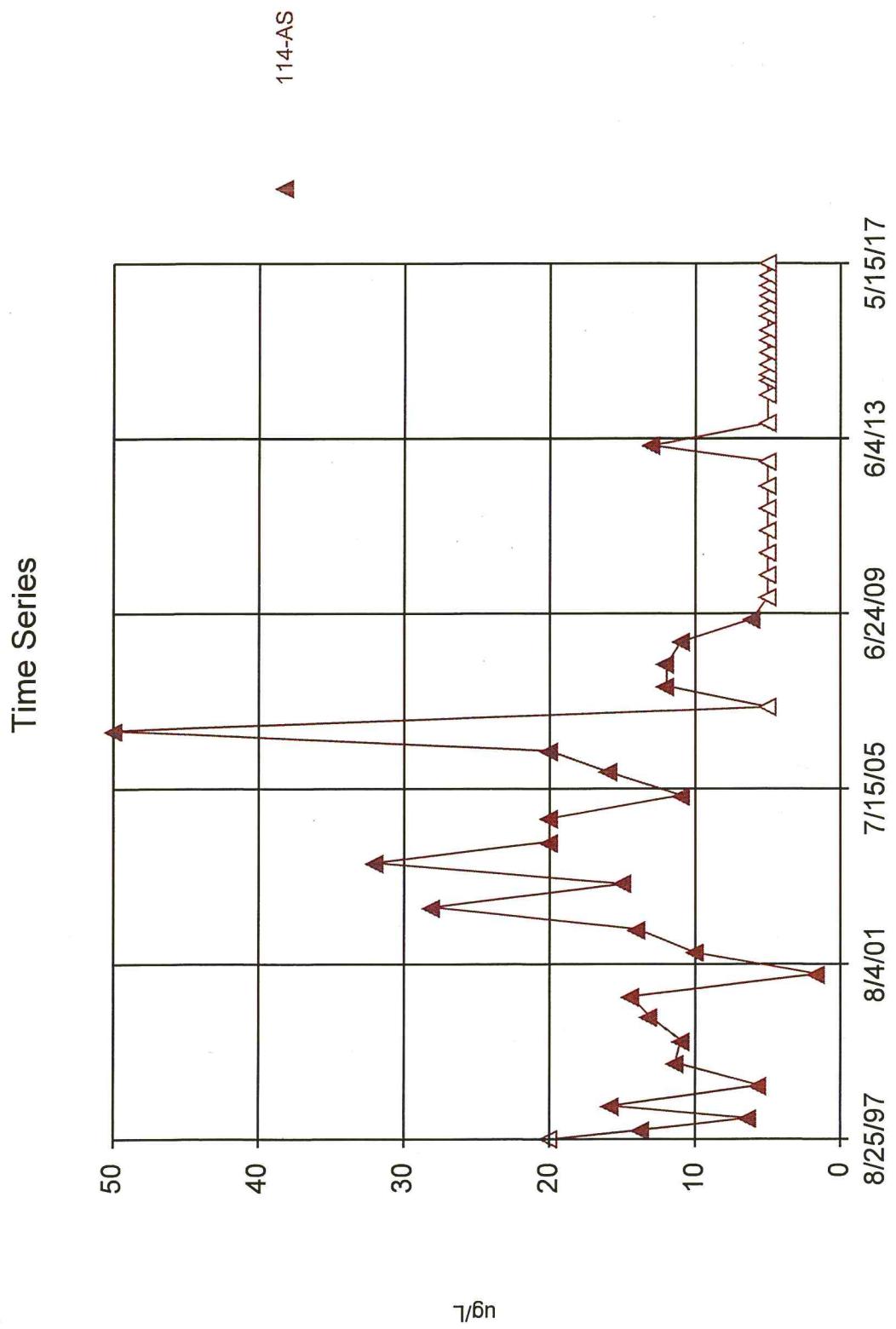
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



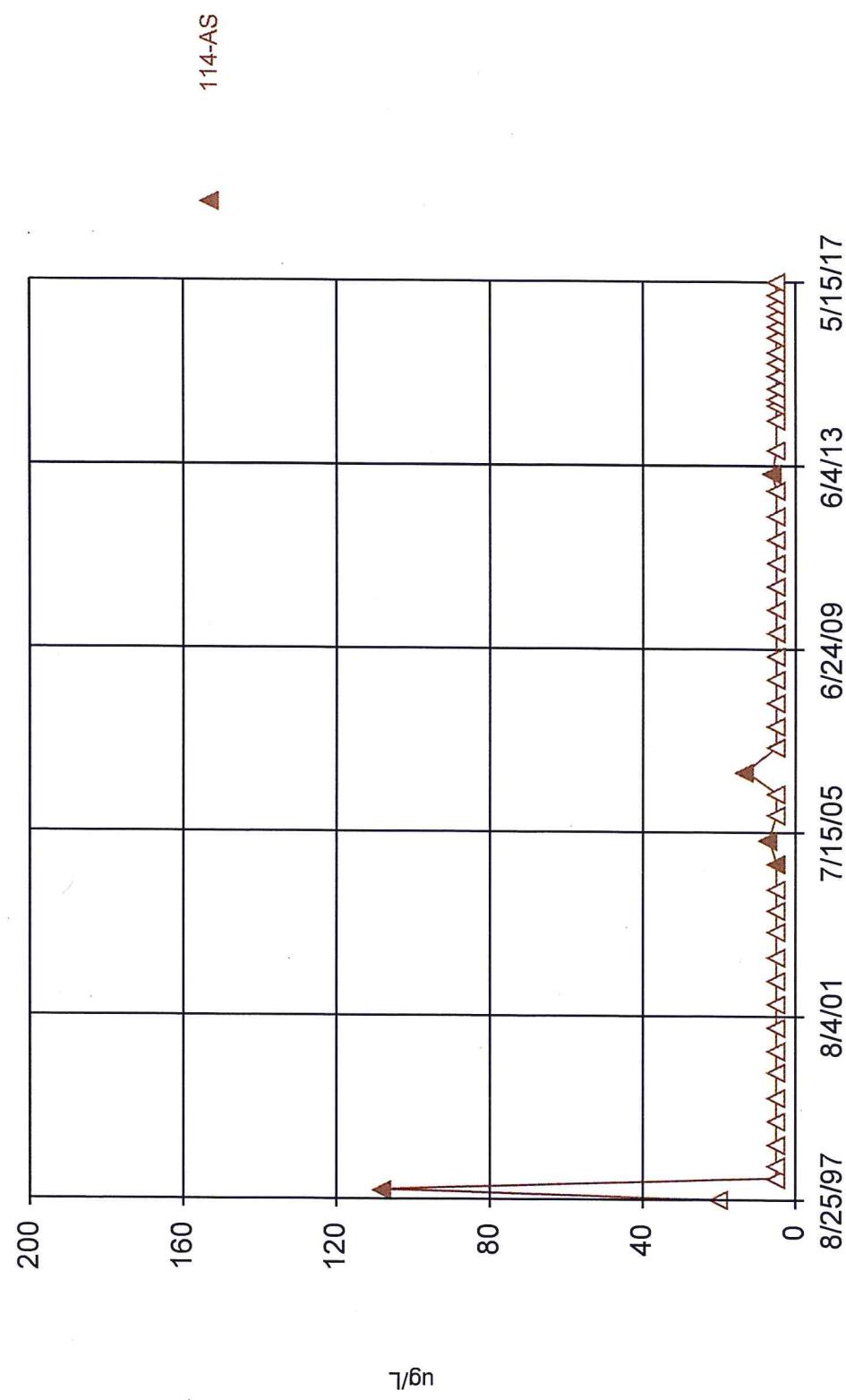
Constituent: Chromium Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

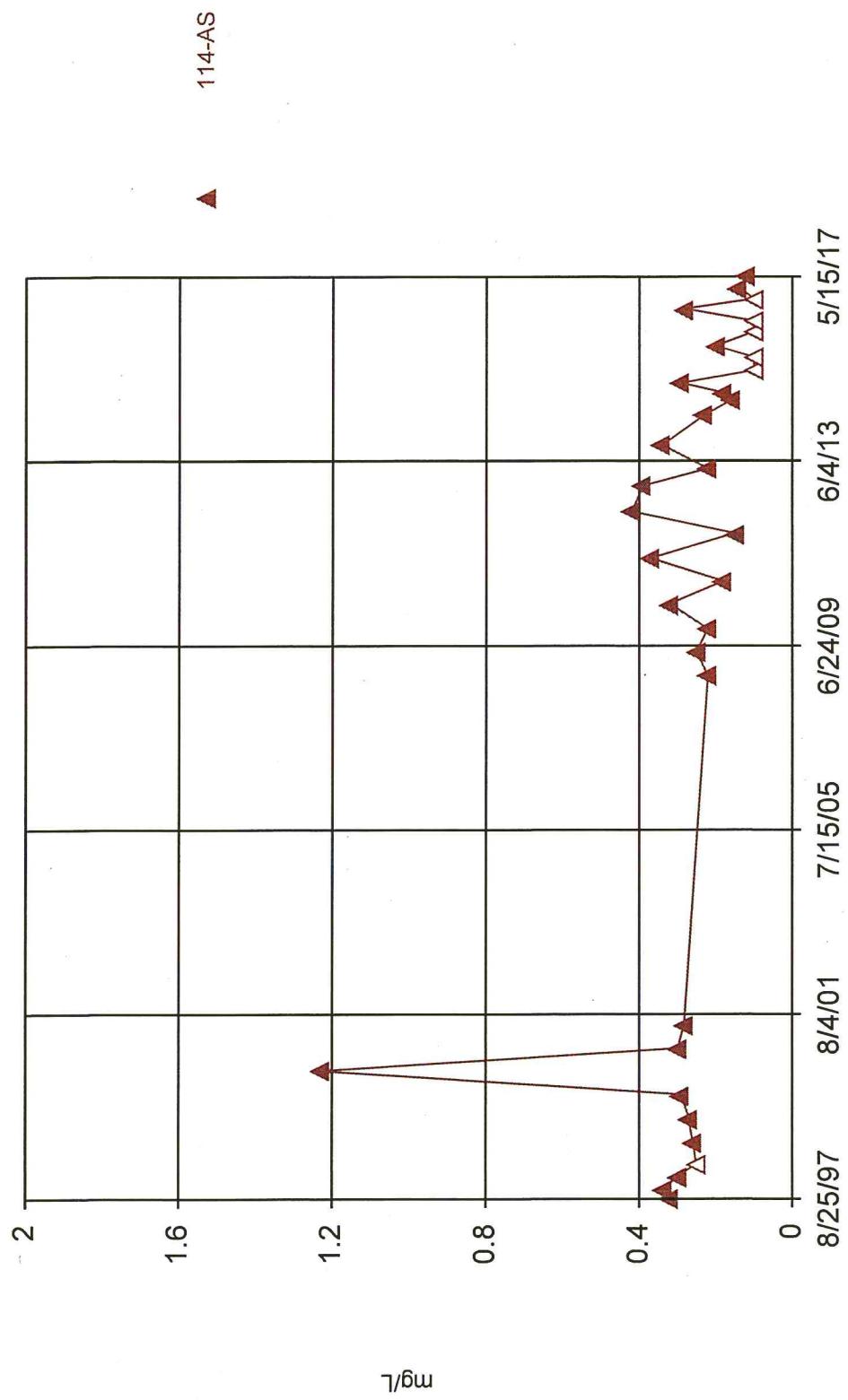
Time Series



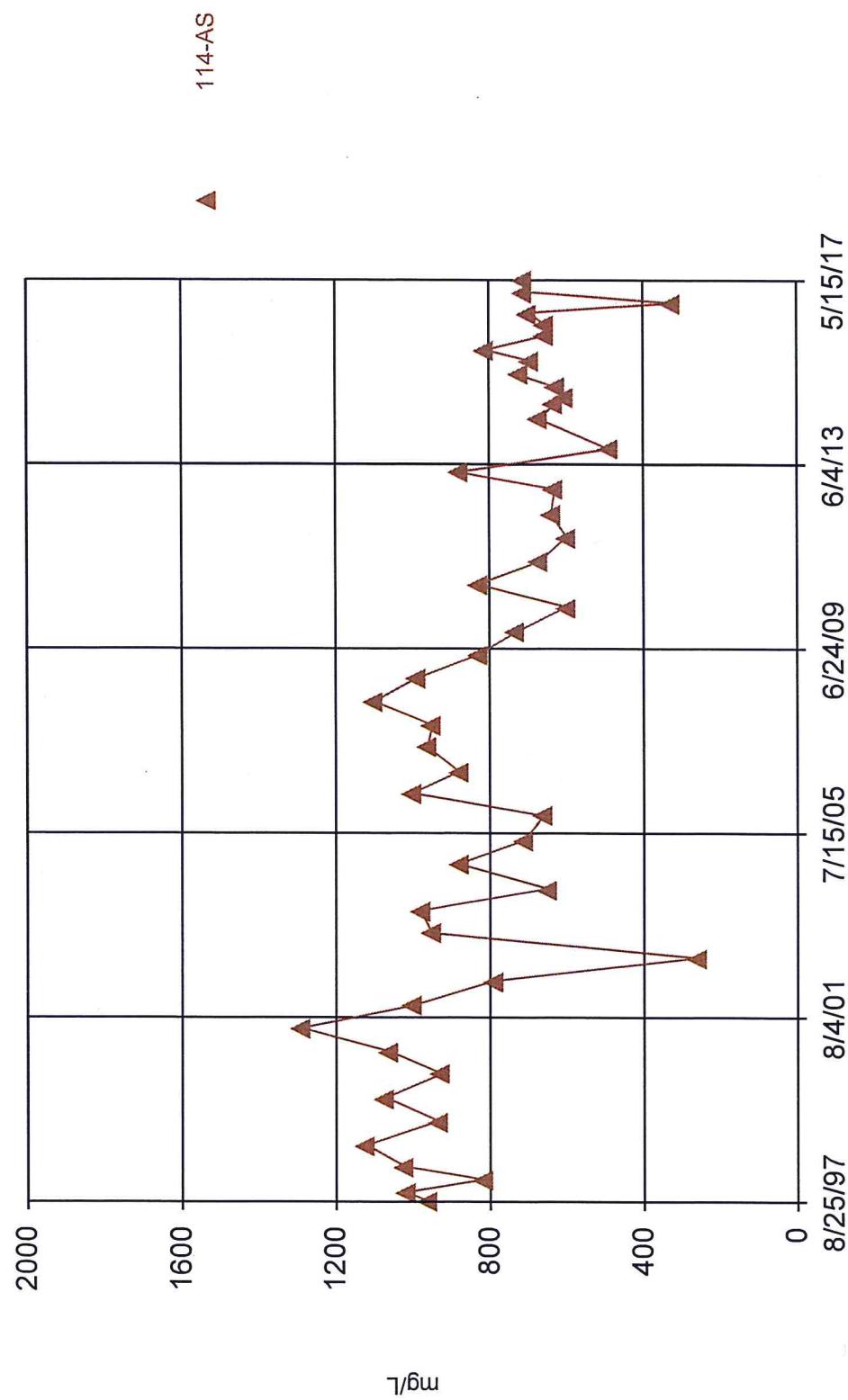
Constituent: Copper Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series

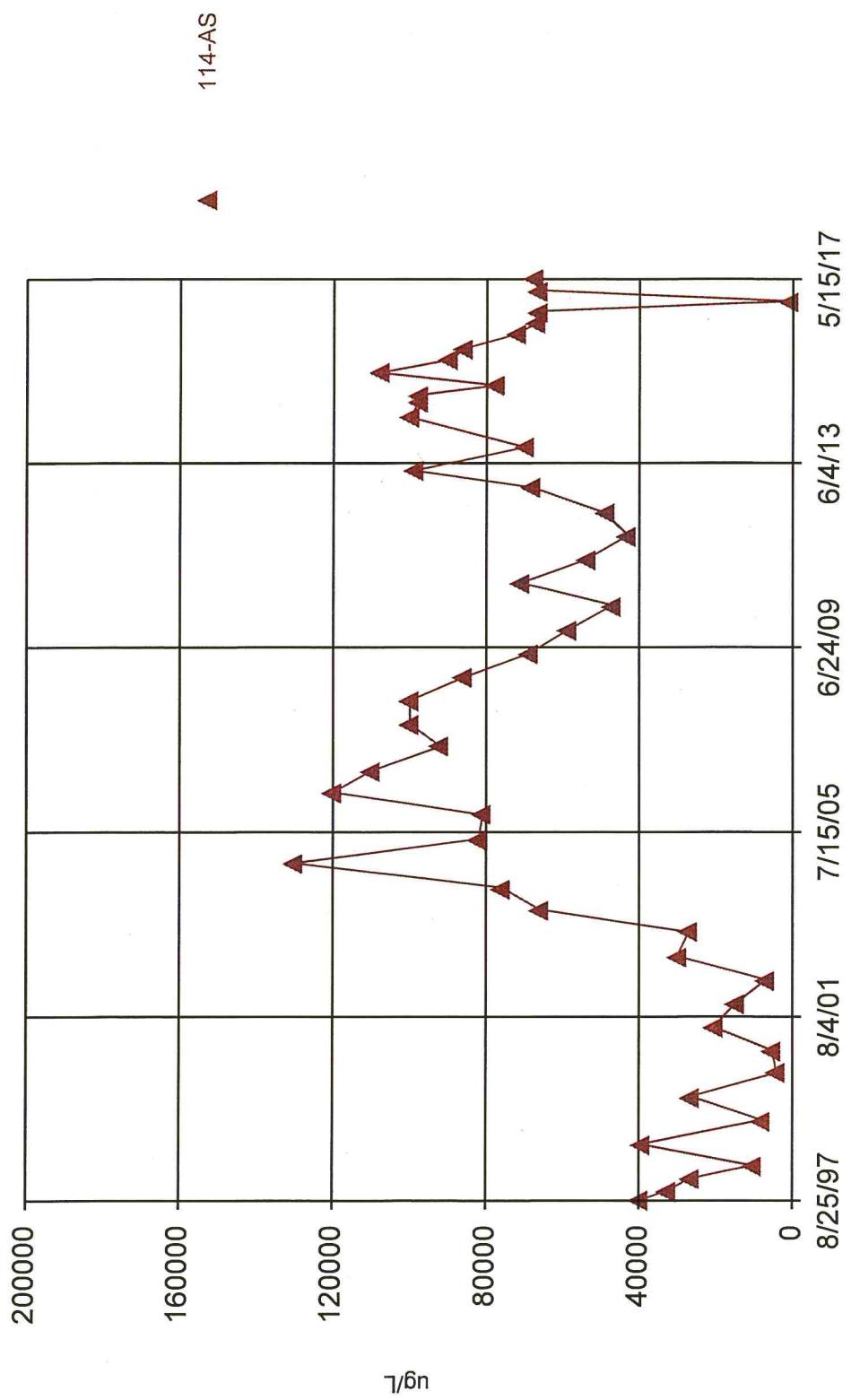


Time Series



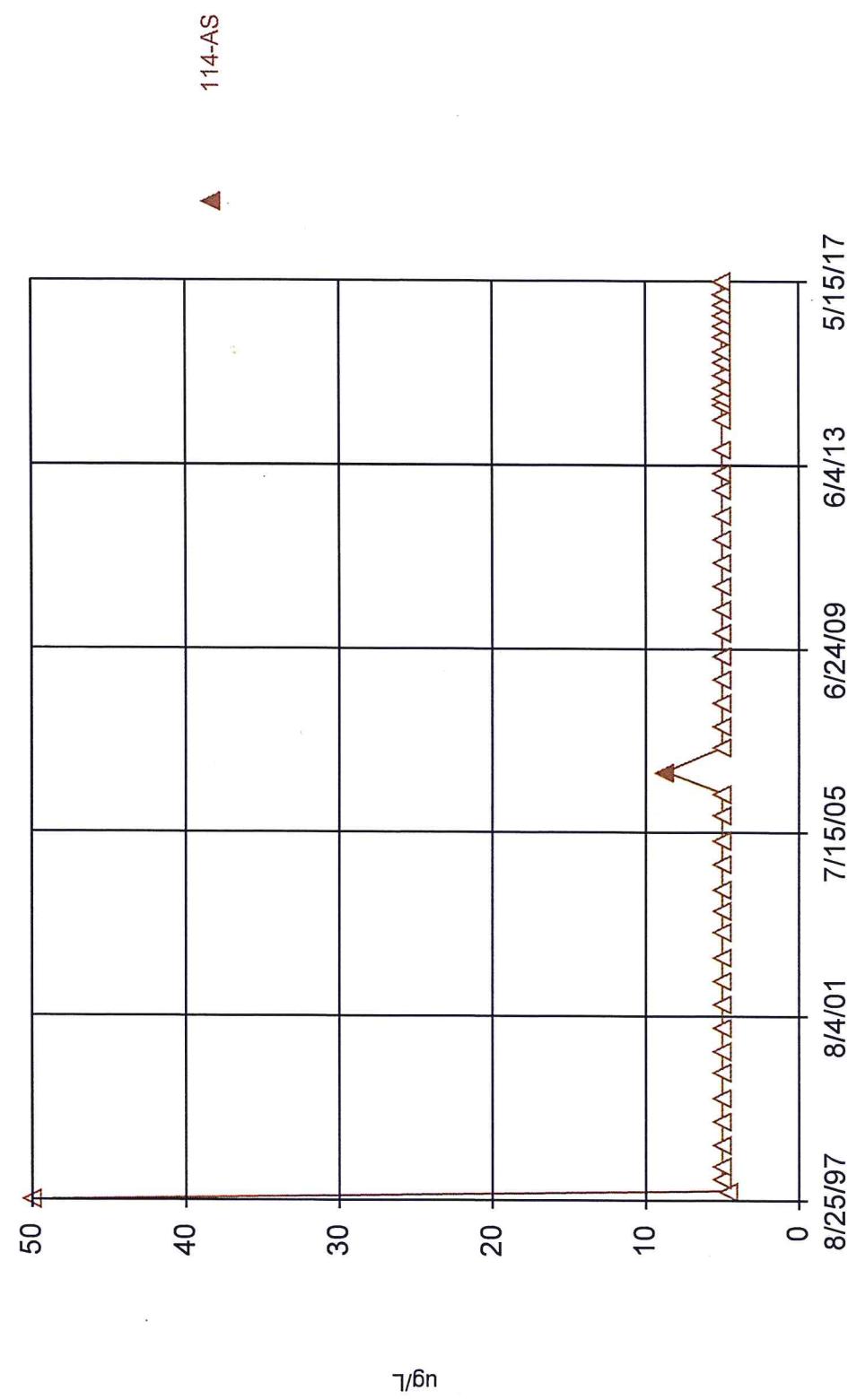
Constituent: Hardness Total Analysis Run 7/11/2017 11:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



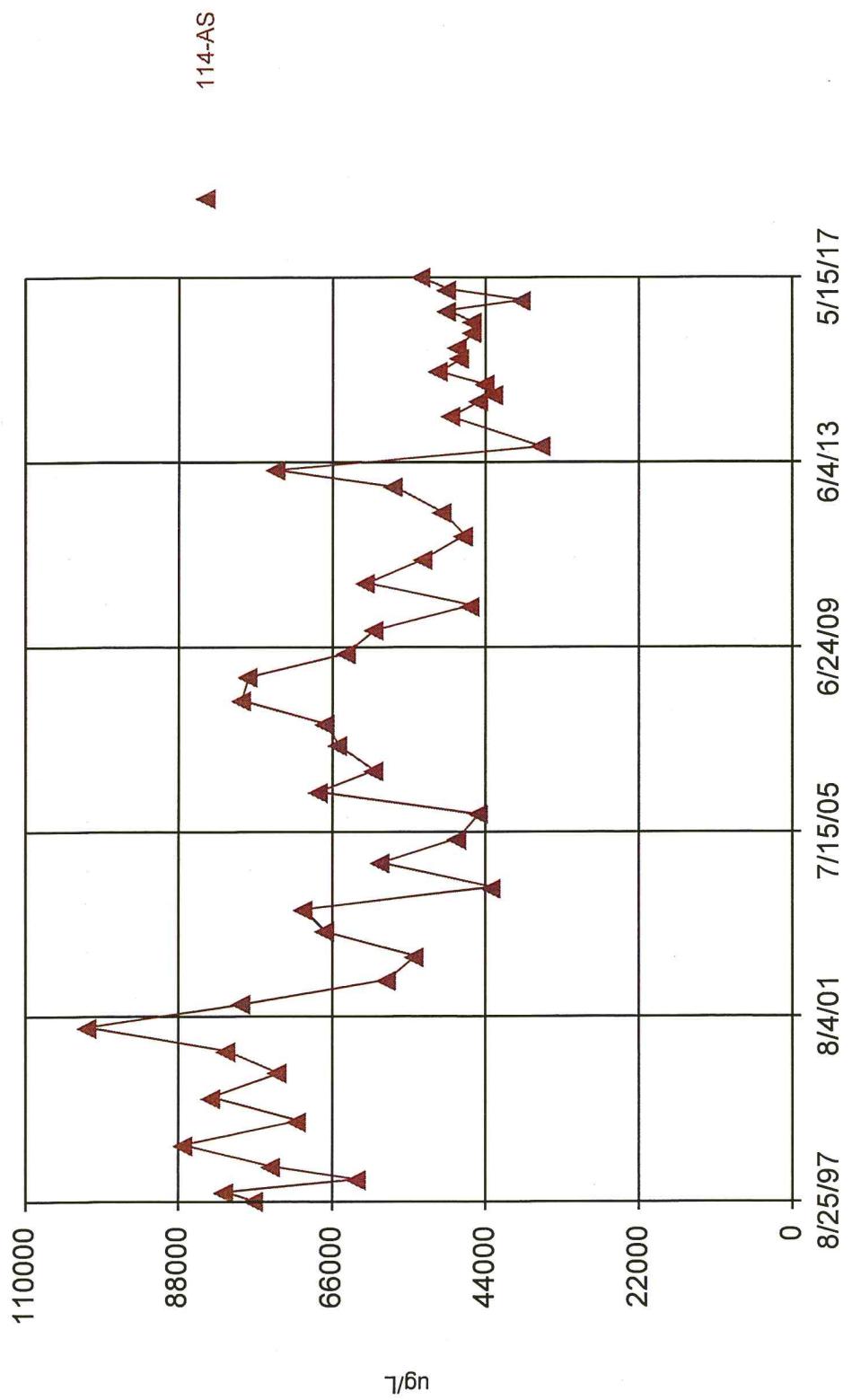
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



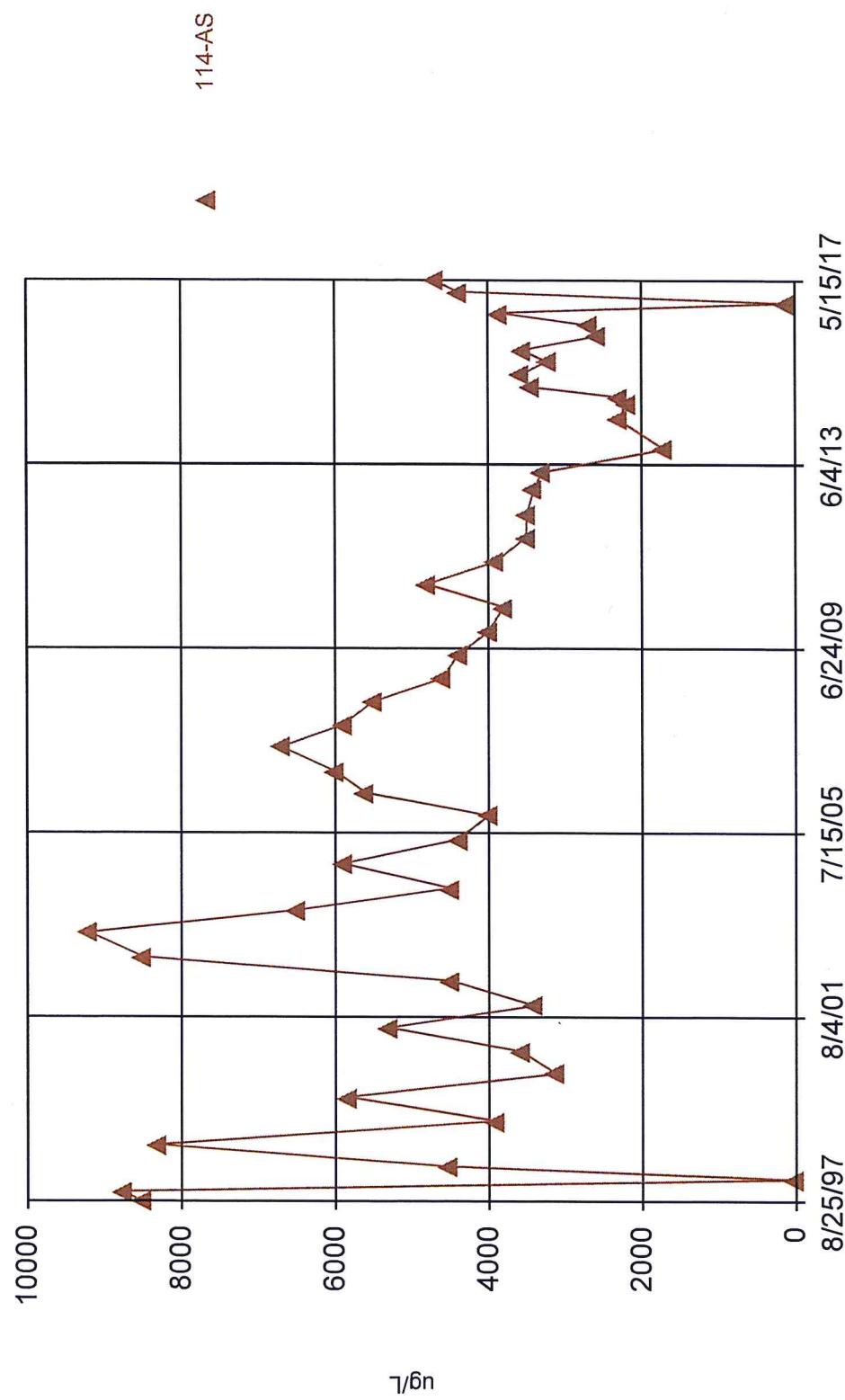
Constituent: Lead Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



Constituent: Magnesium Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

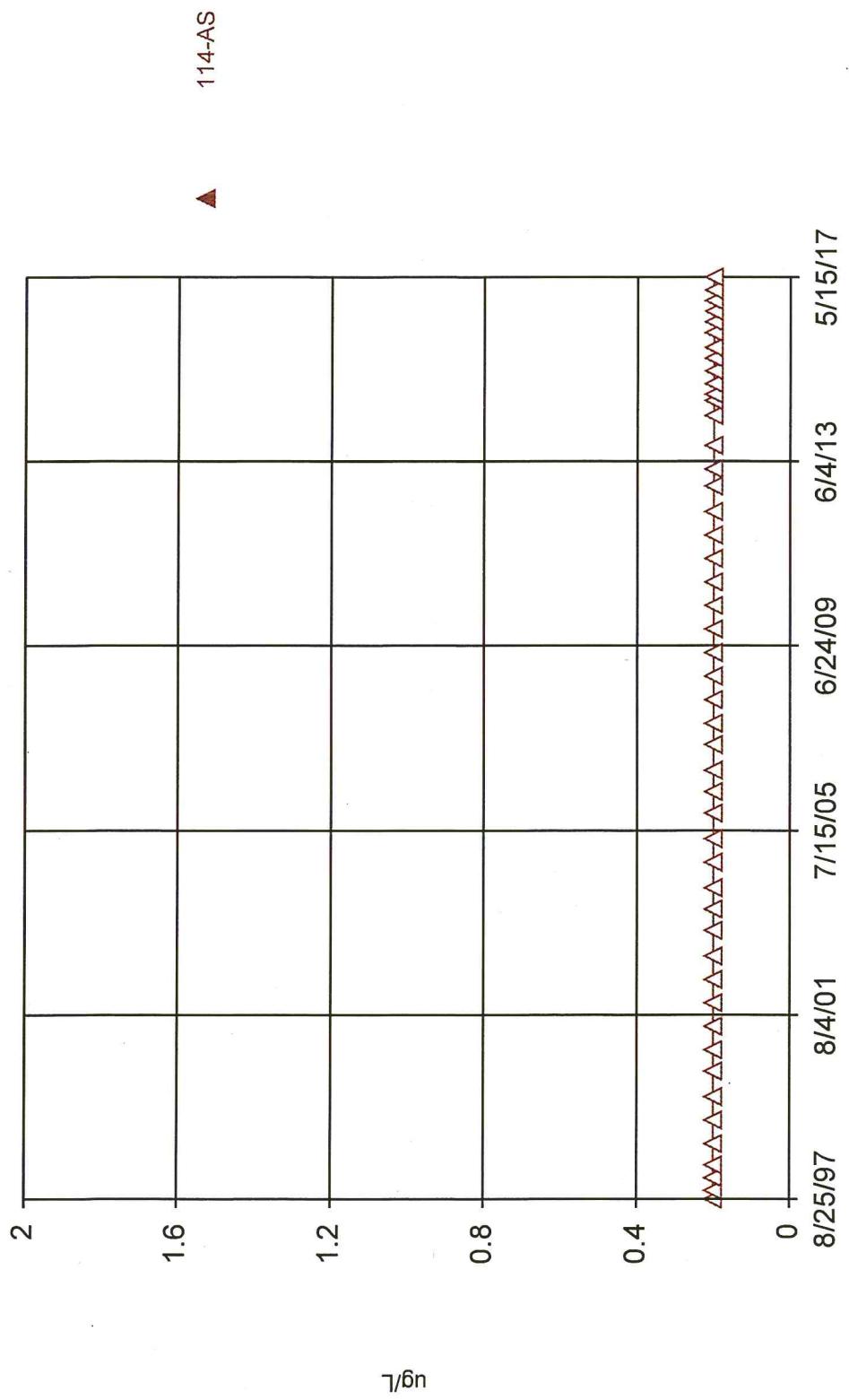
Time Series



Constituent: Manganese Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

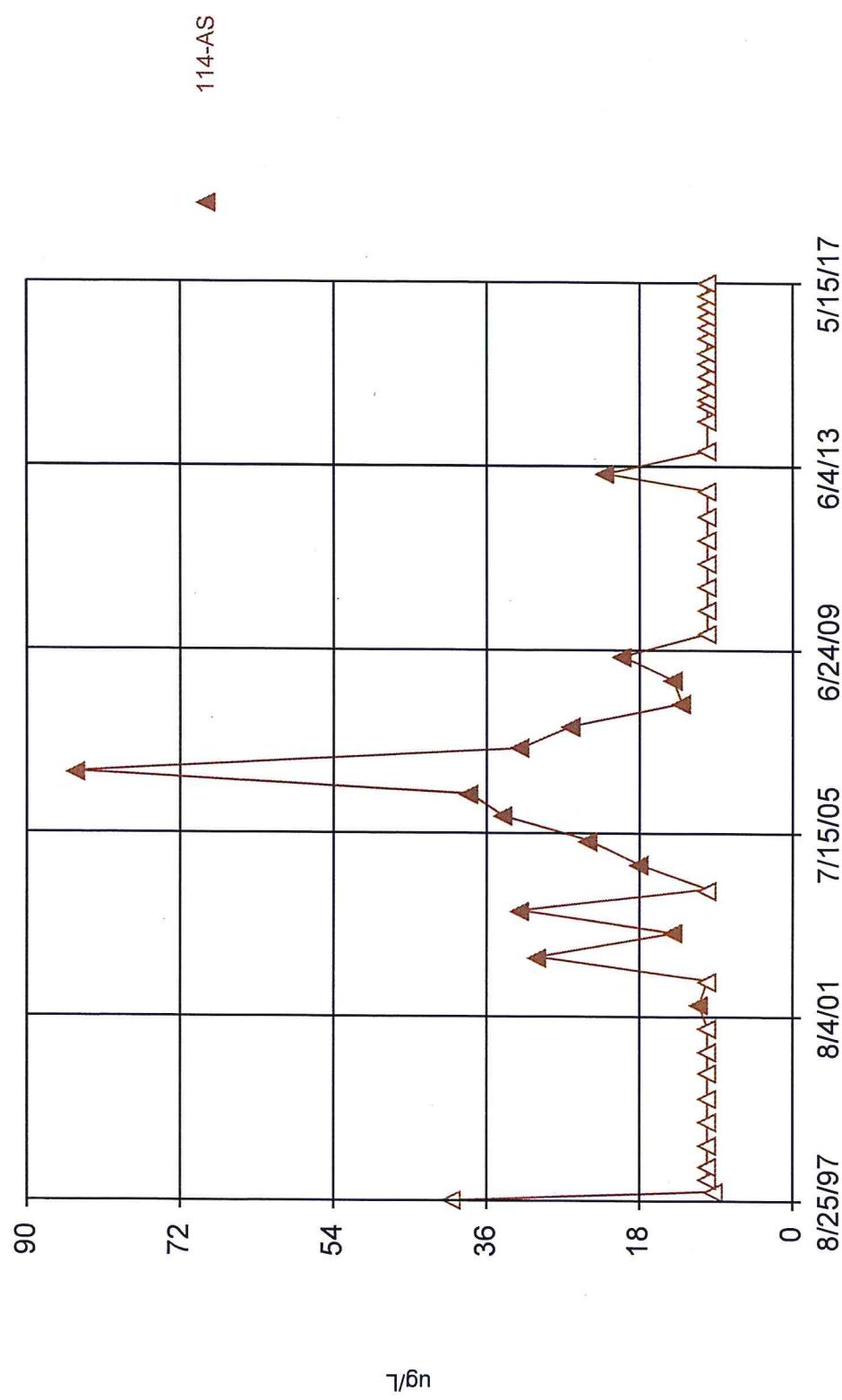
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Time Series



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Hollow symbols indicate censored values.

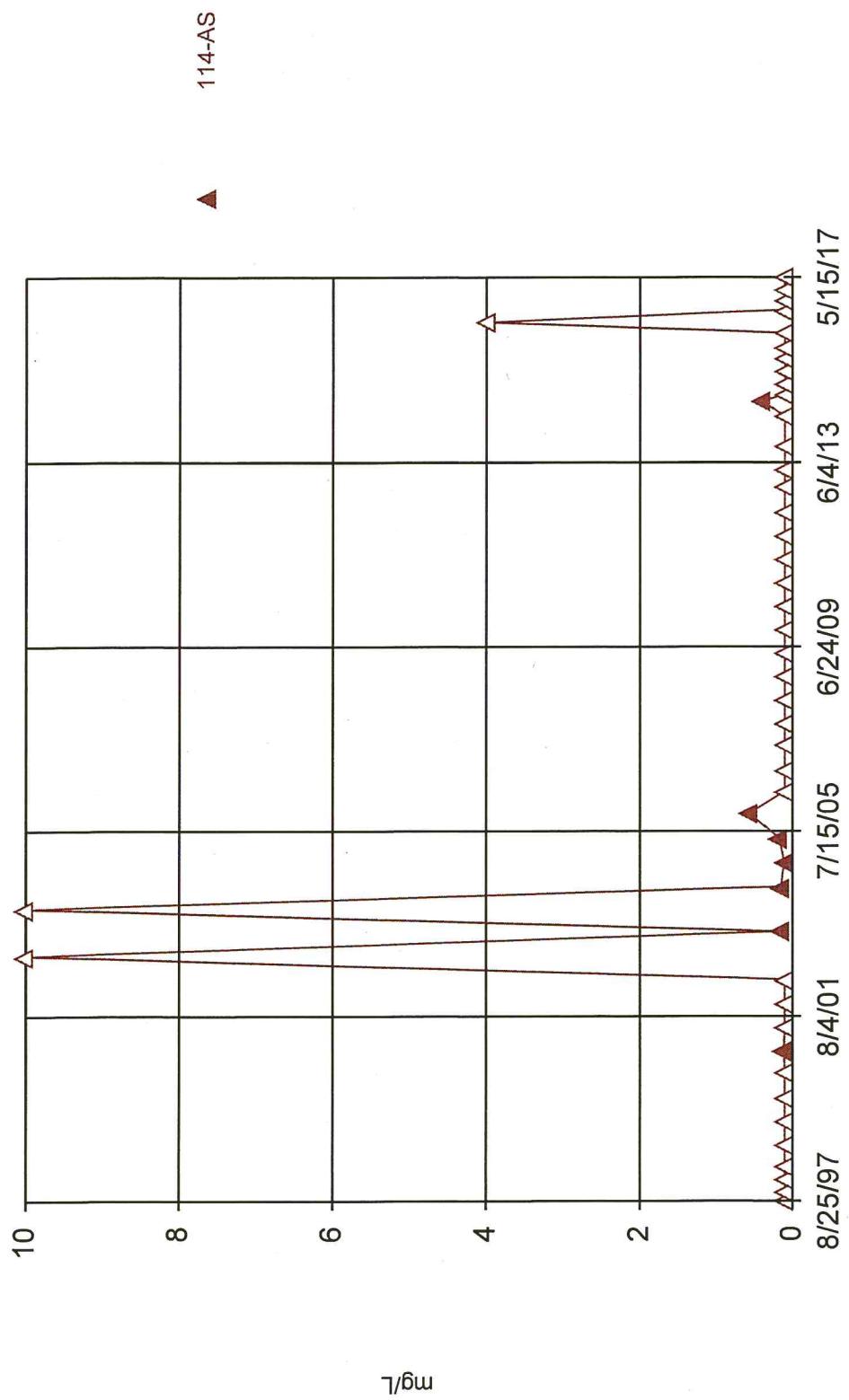
Time Series



Constituent: Nickel Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

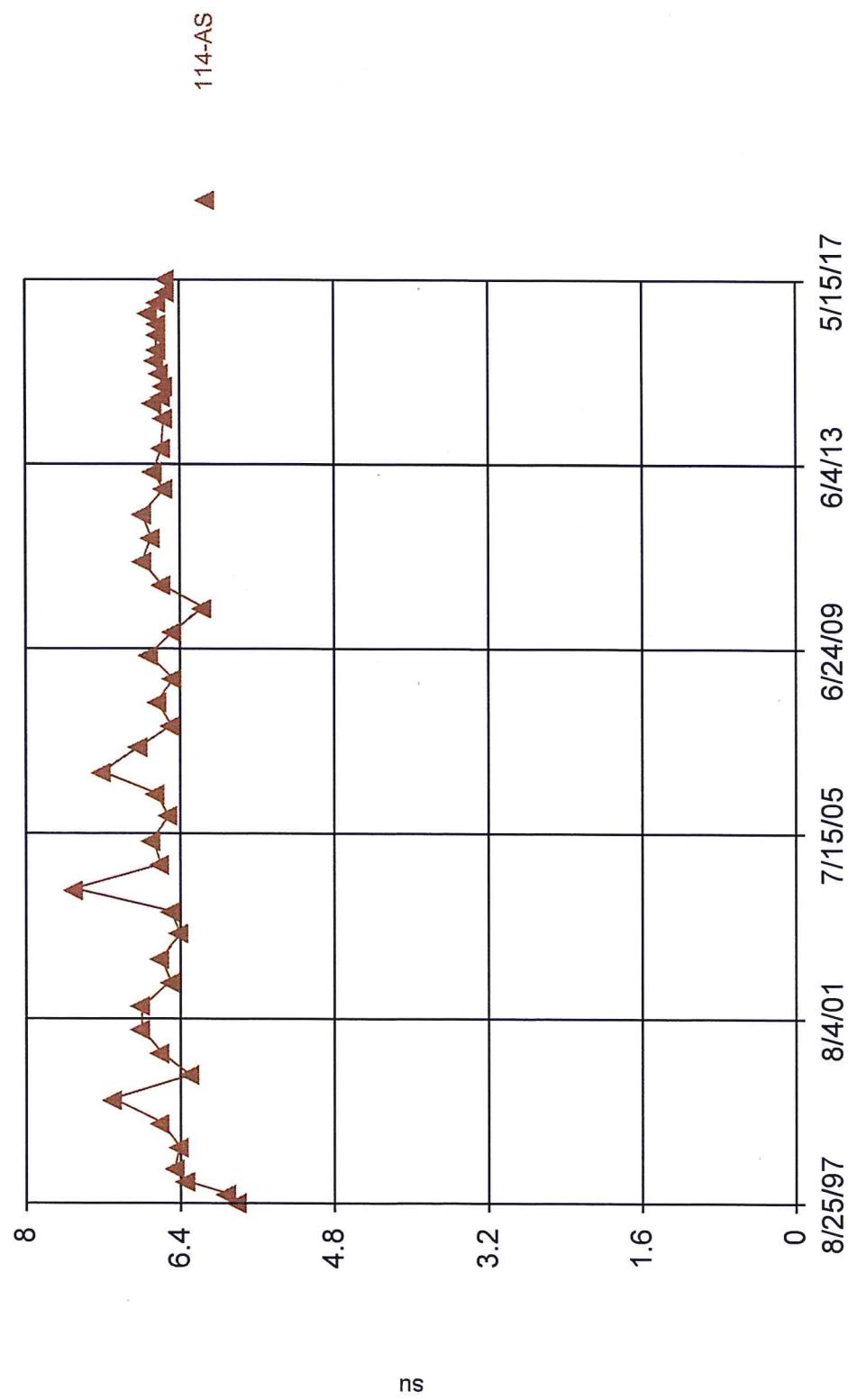
Time Series



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 11:59 PM

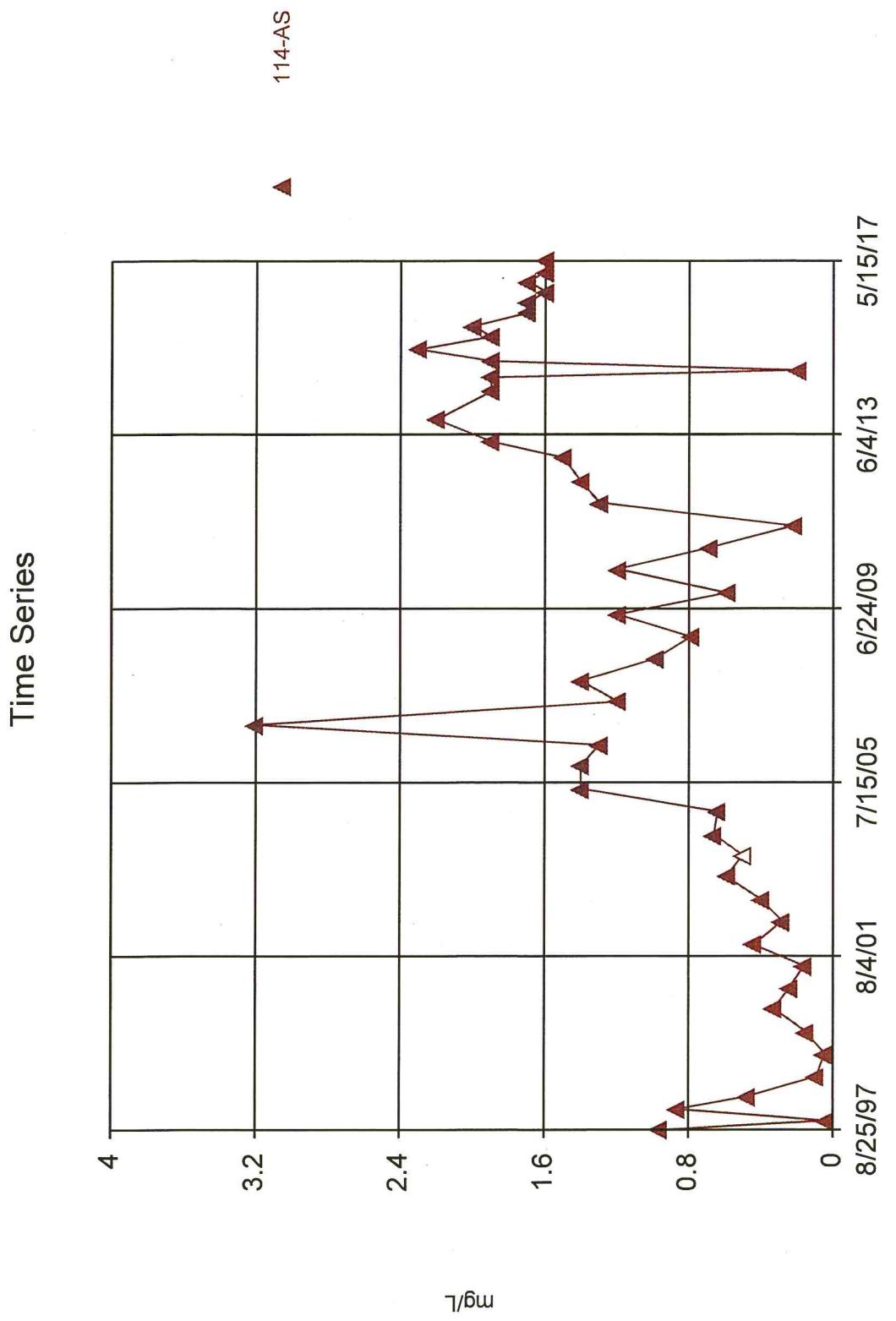
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



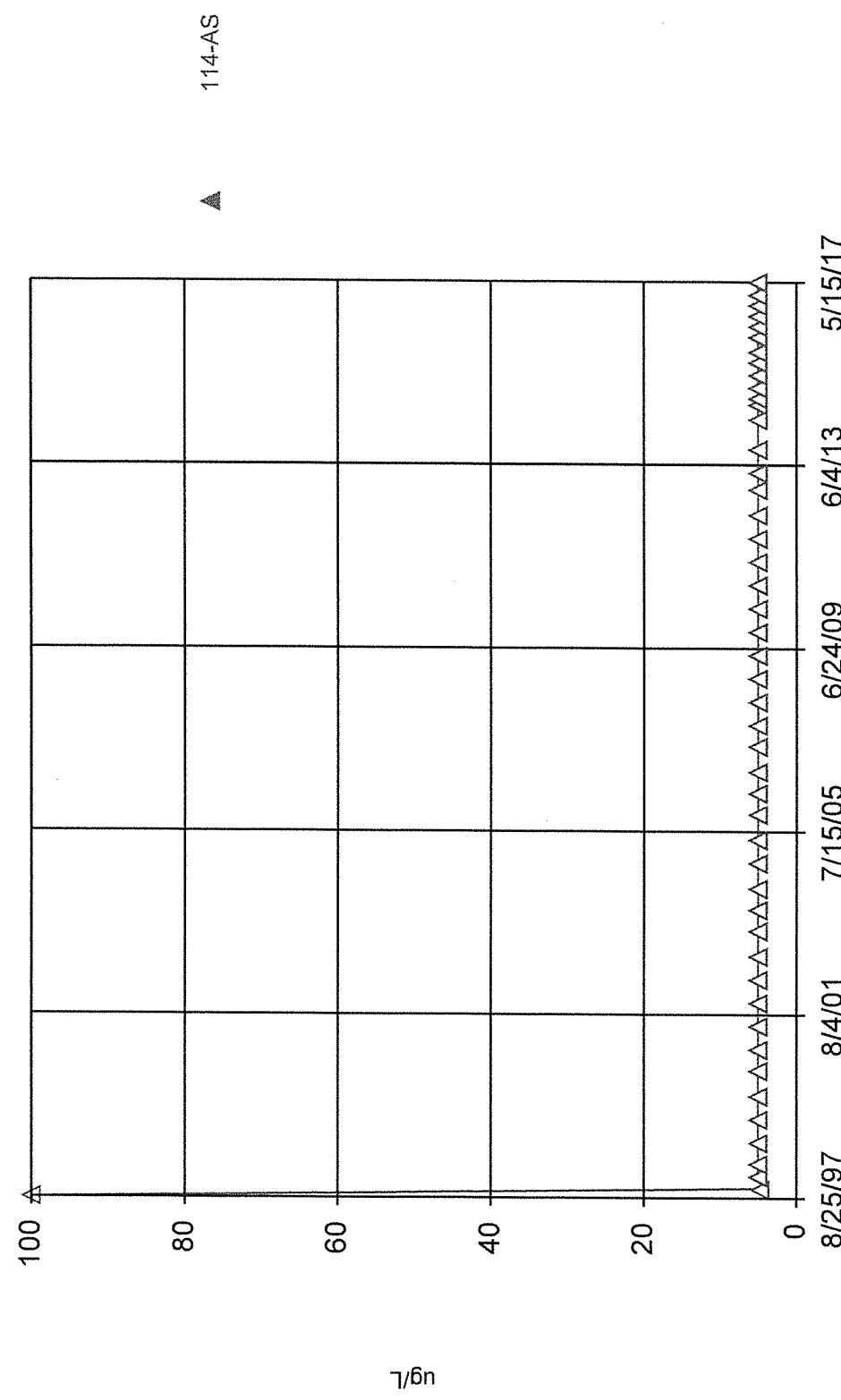
Constituent: pH [Field] Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

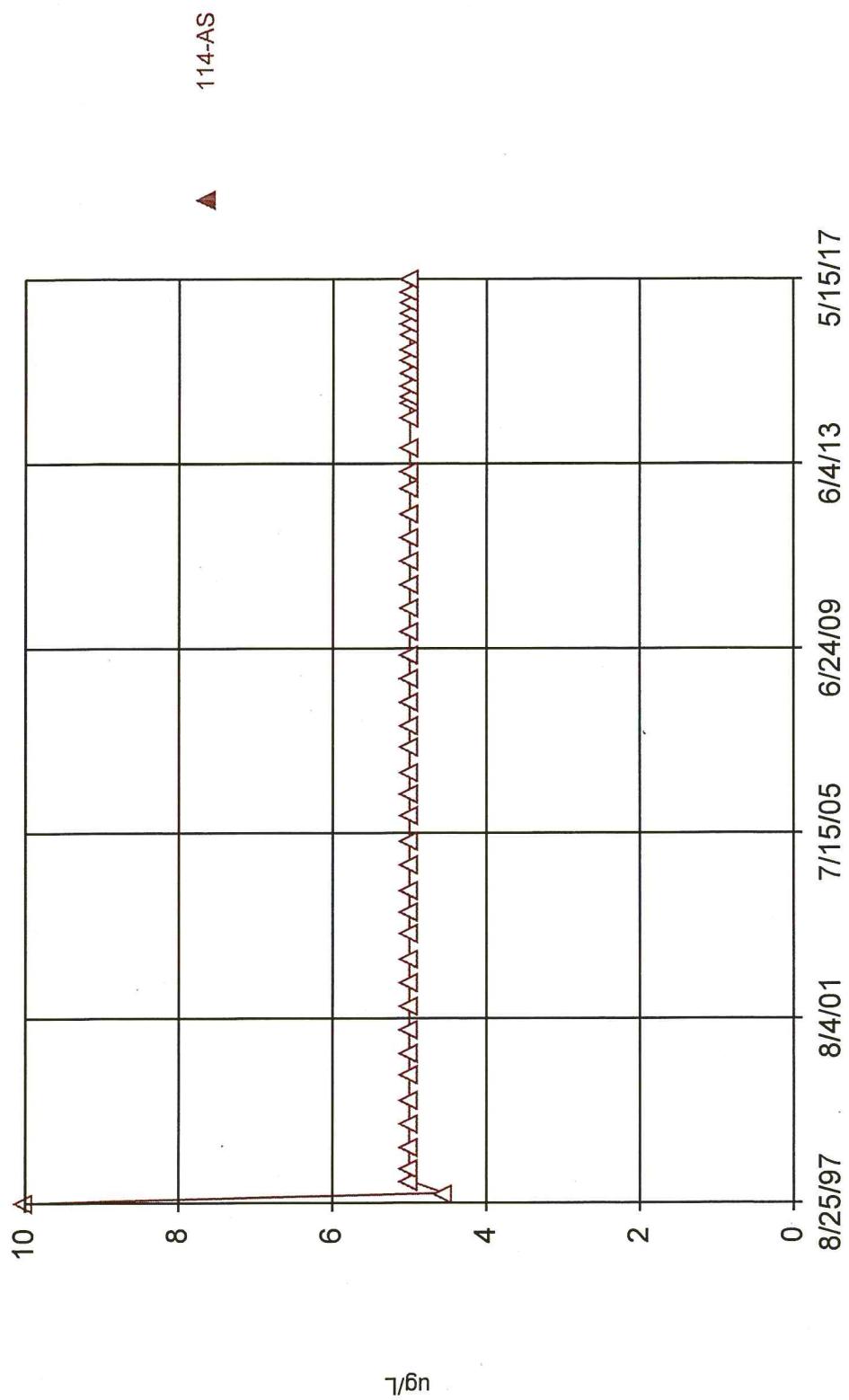
Time Series



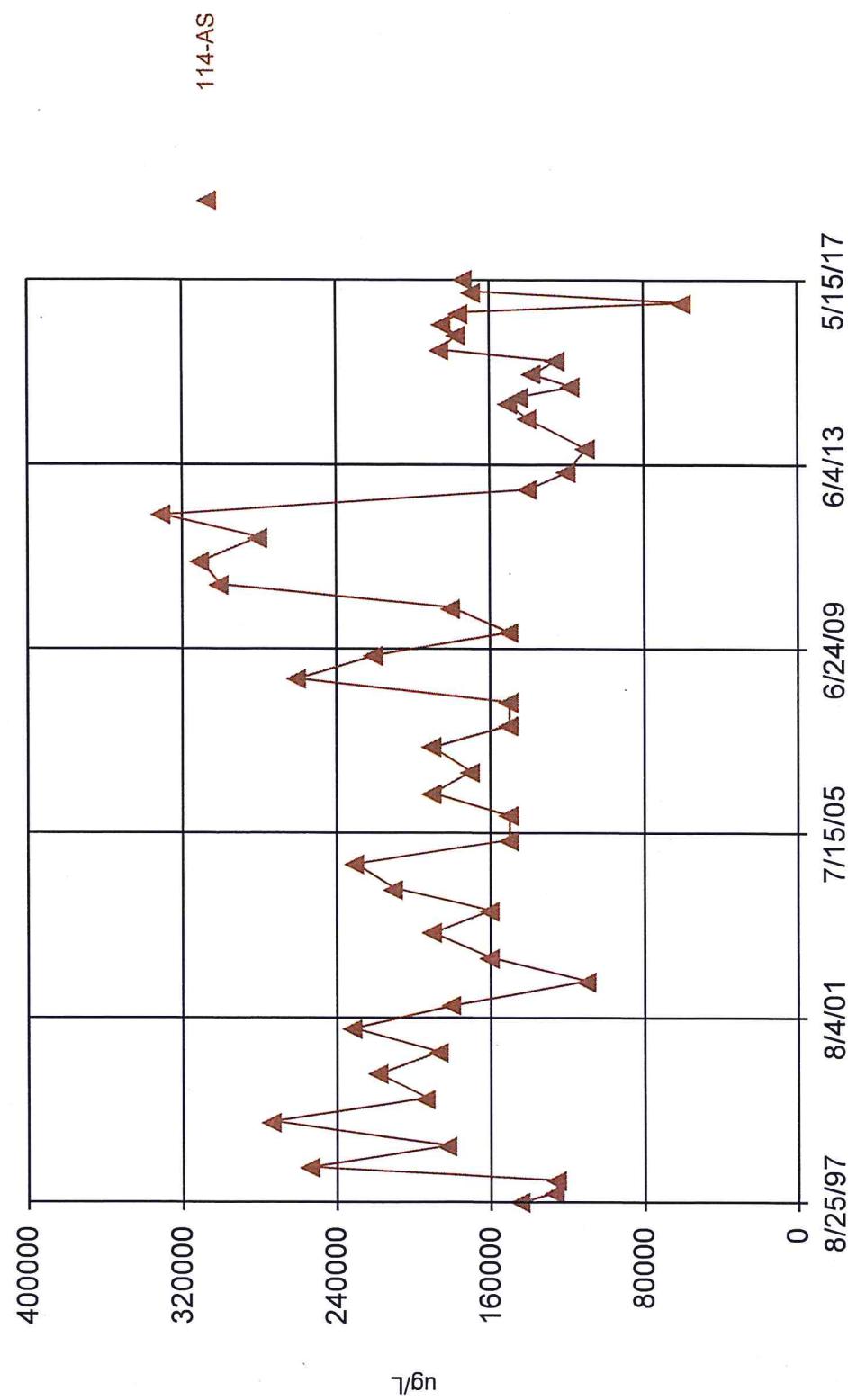
Constituent: Selenium Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

Time Series

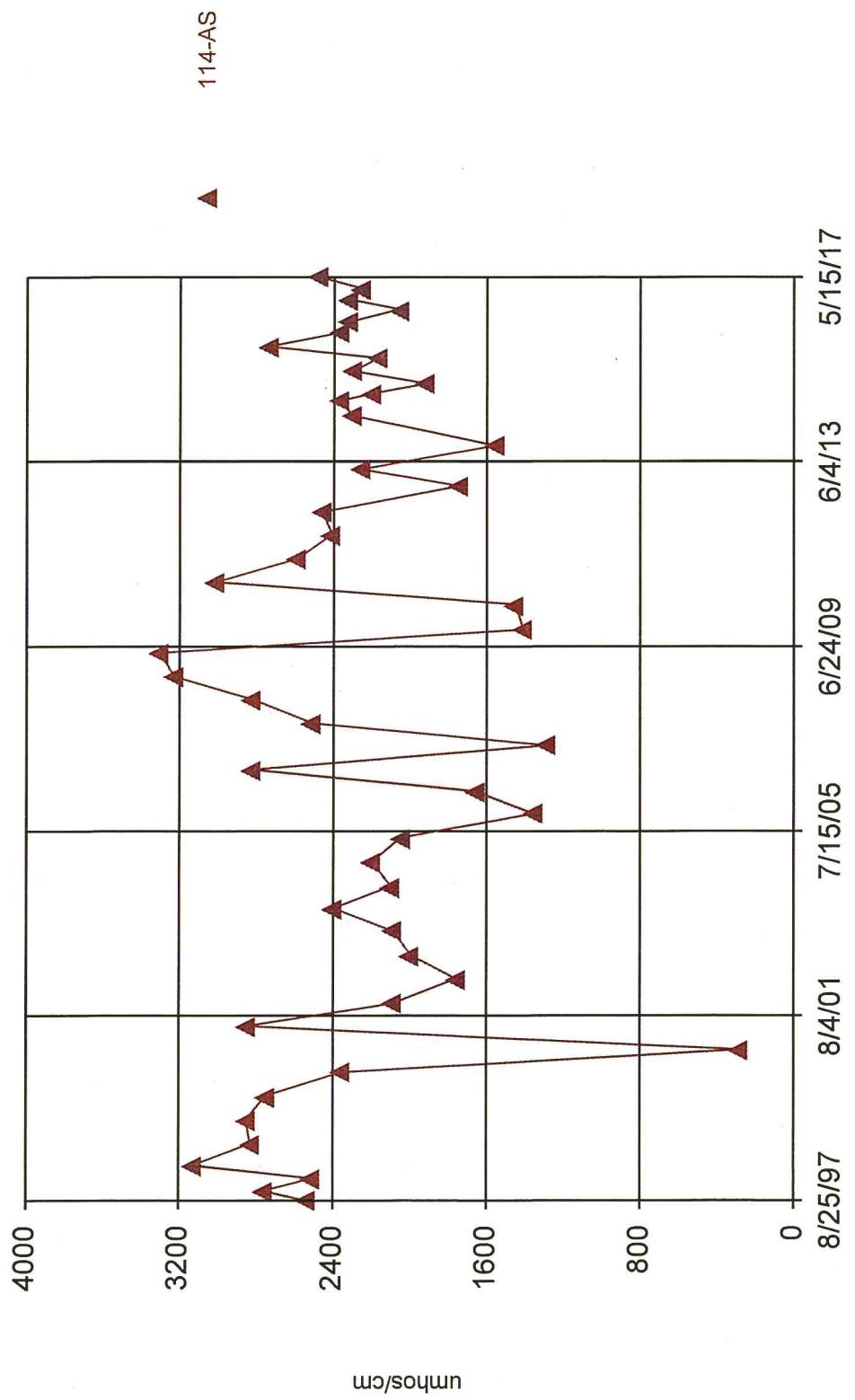


Time Series



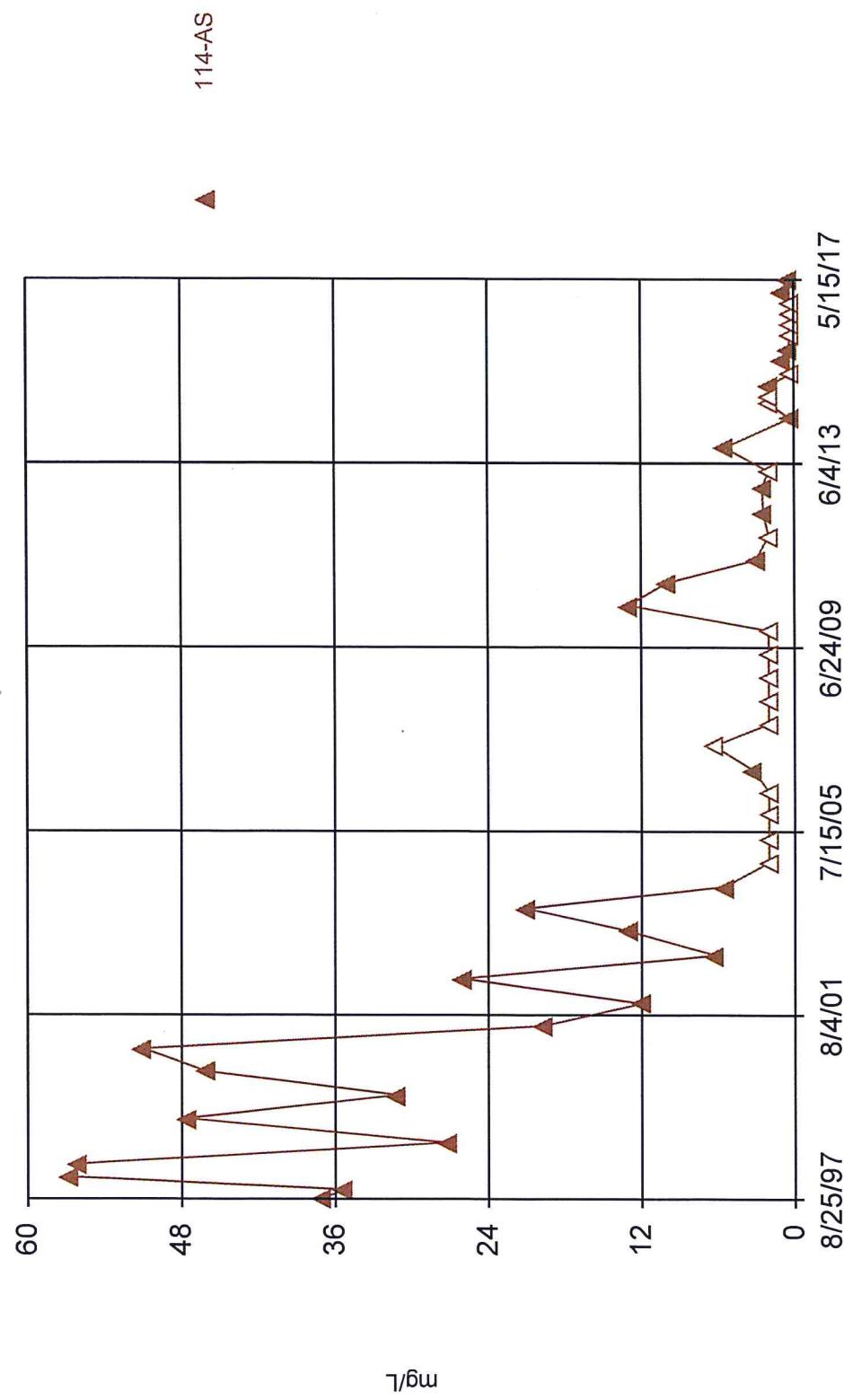
Constituent: Sodium Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



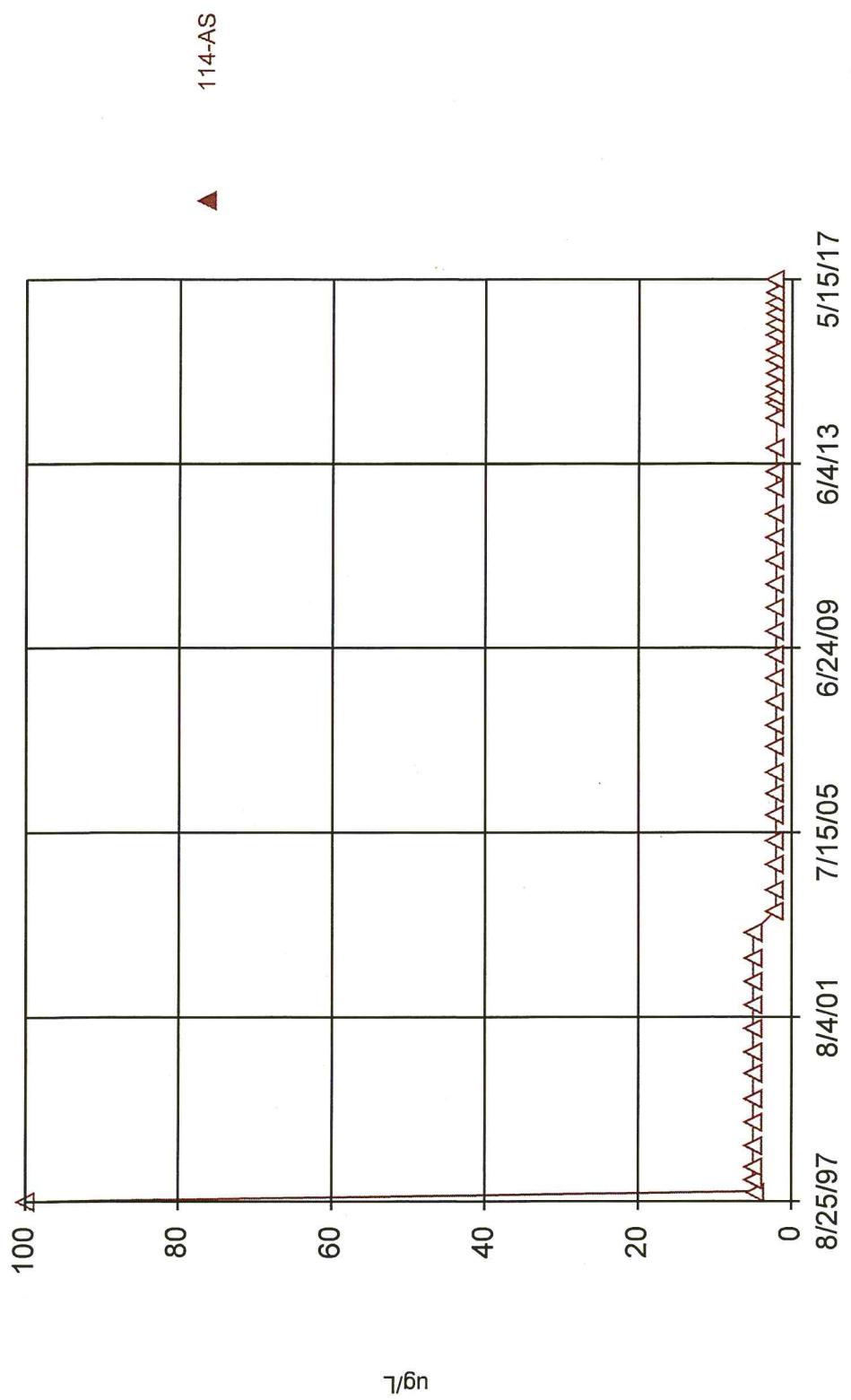
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series

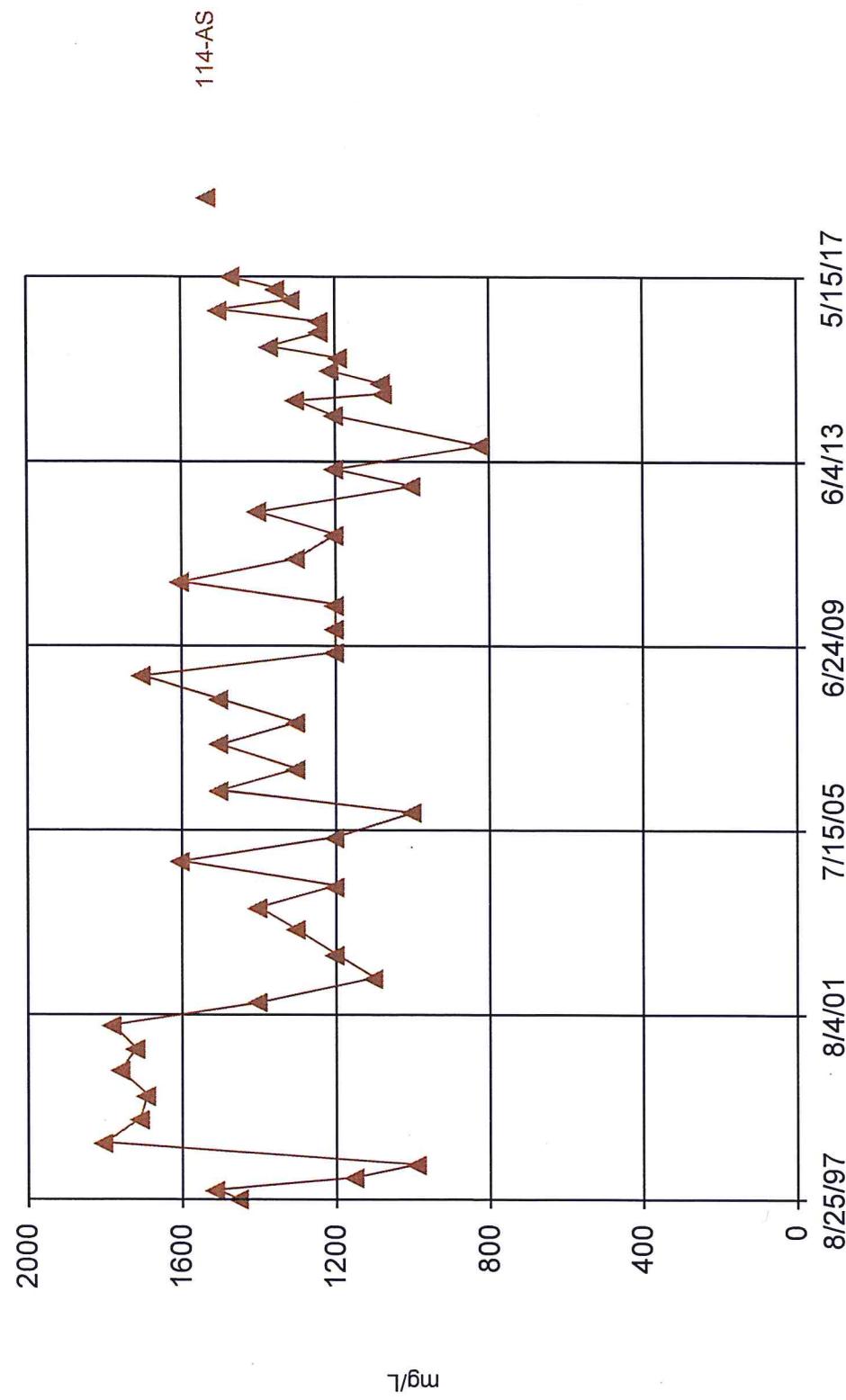


Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



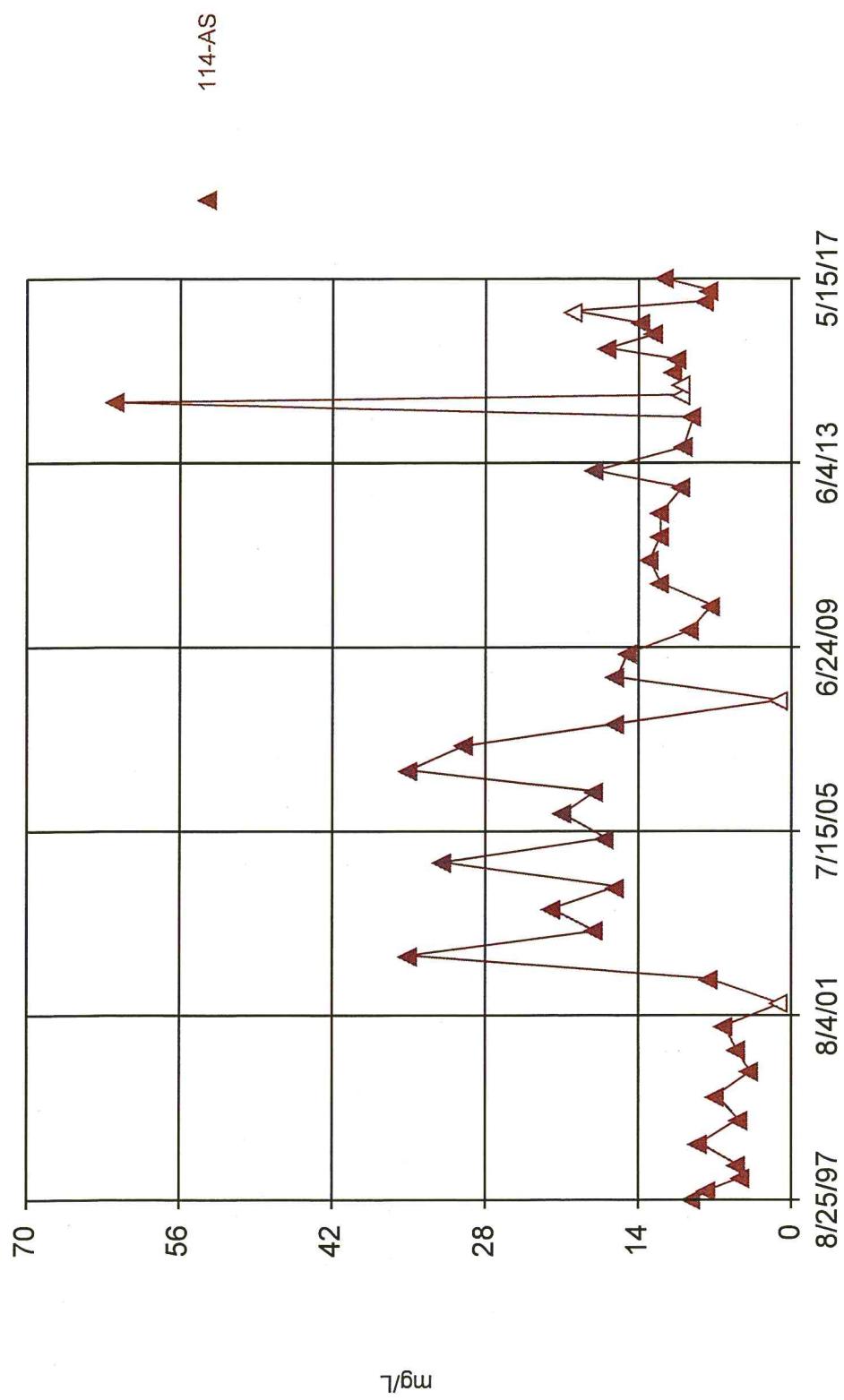
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series

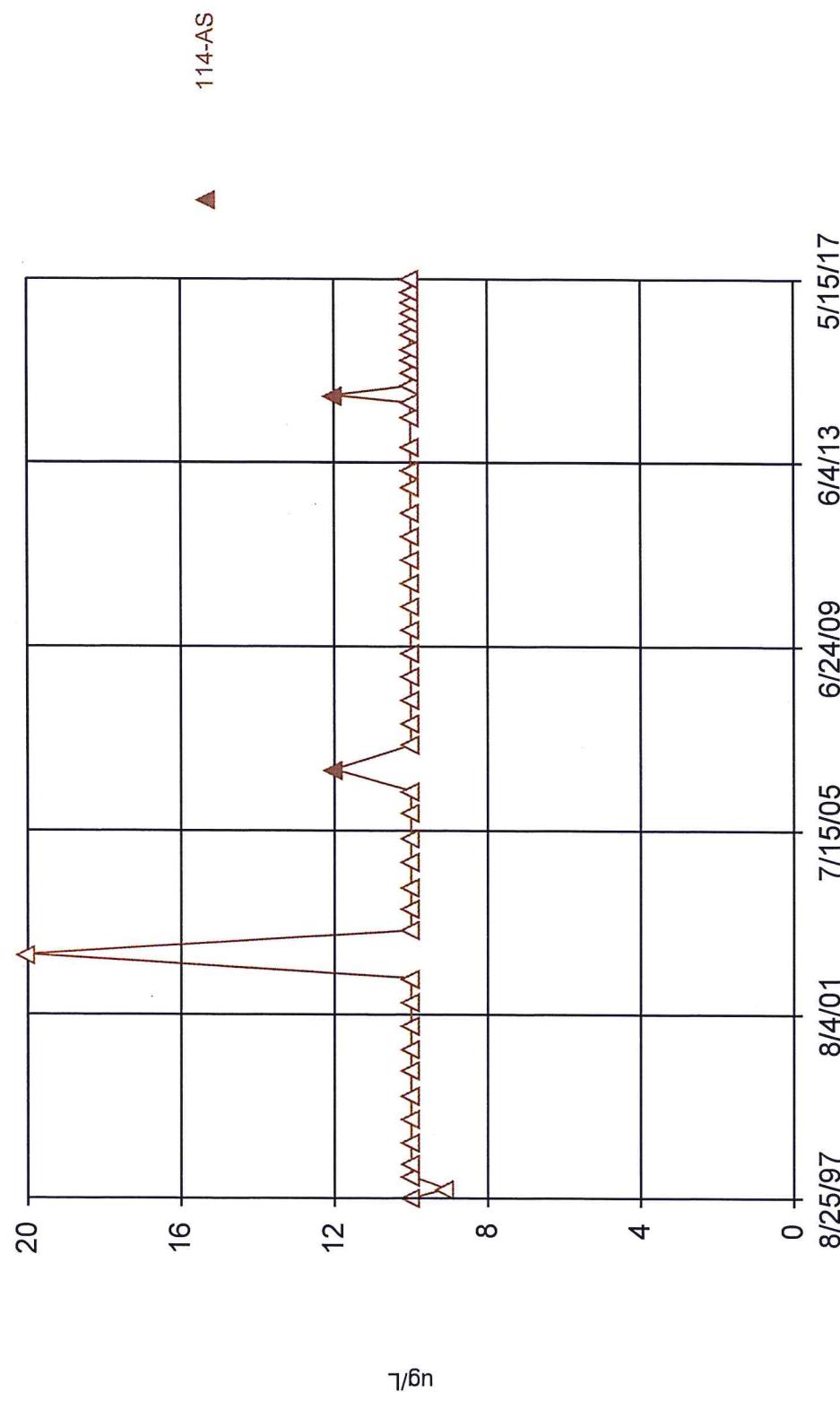


Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 11:59 PM

Bridgeton LF Client: RSI Data: Bridgeton LF

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

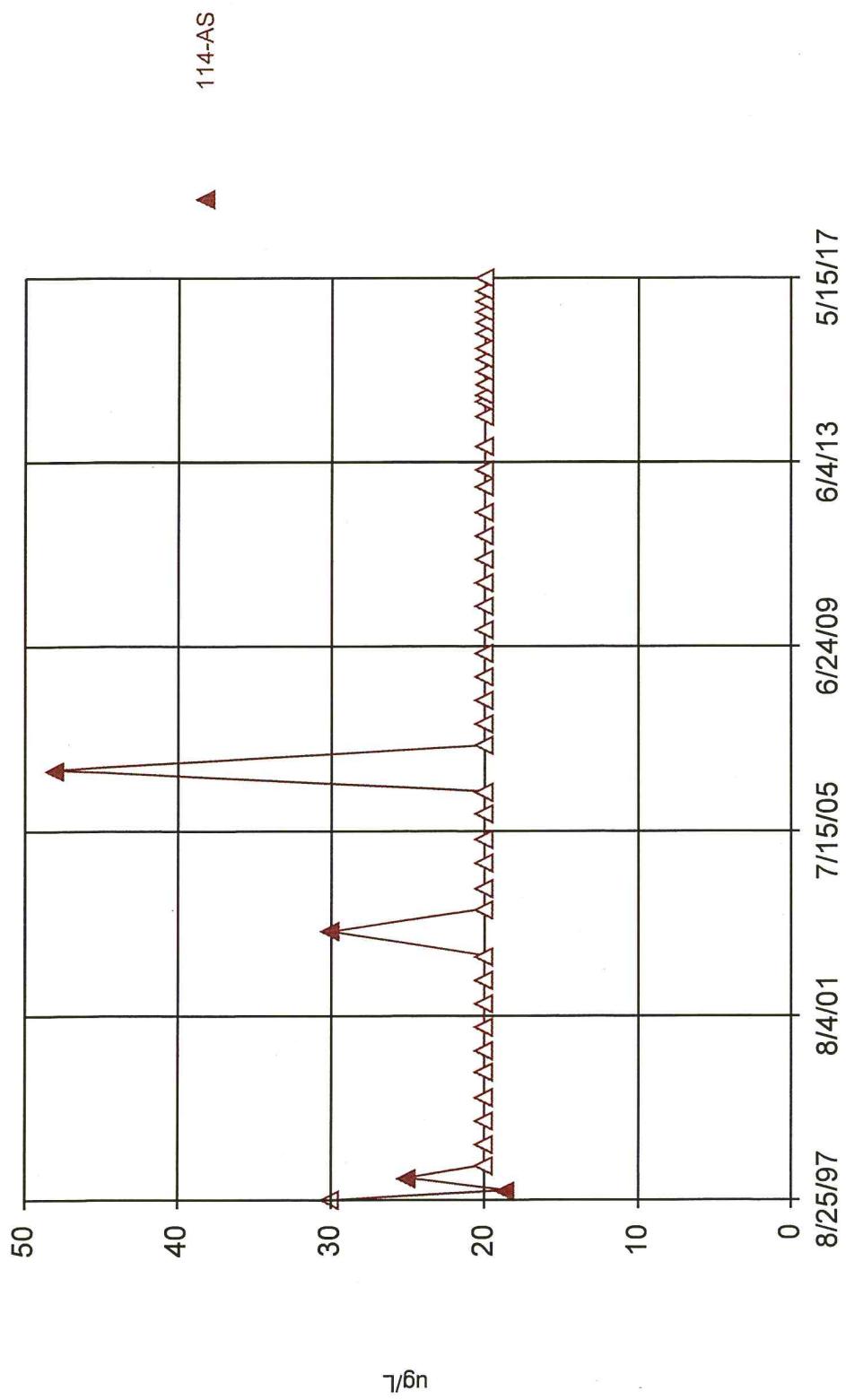
Time Series



Constituent: Vanadium Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

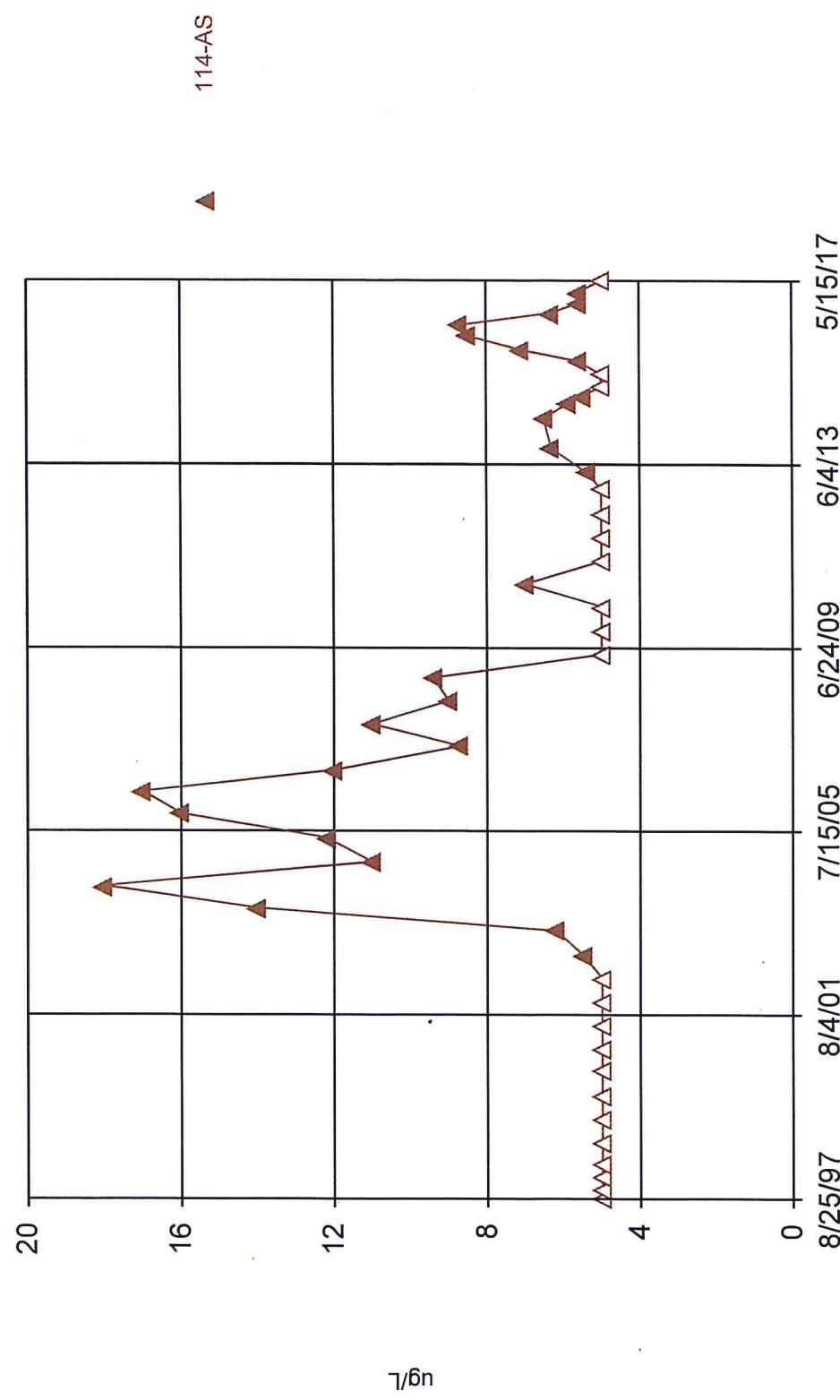
Time Series



Constituent: Zinc Total Analysis Run 7/11/2017 11:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

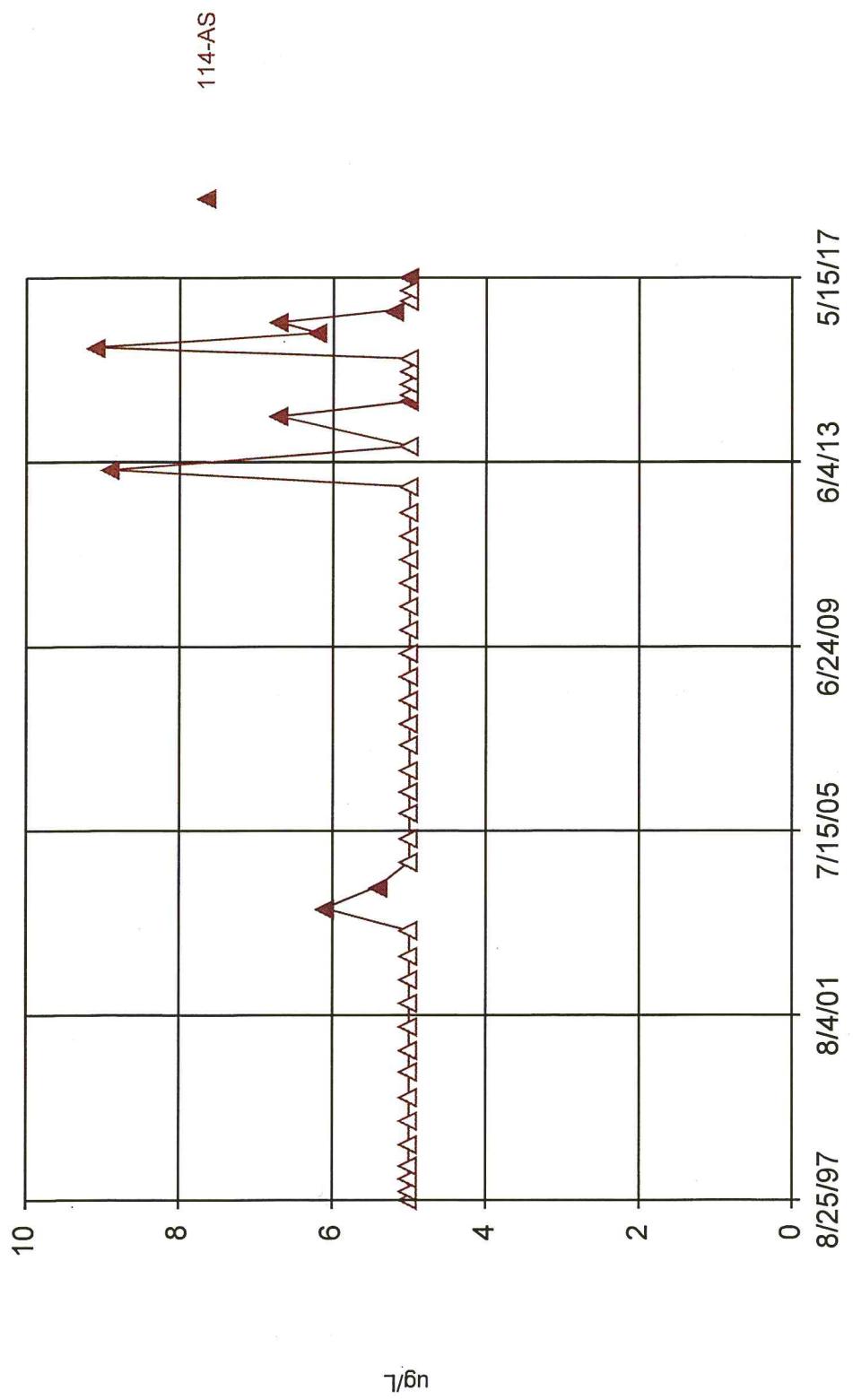
Time Series



Constituent: 14-Dichlorobenzene Analysis Run 7/12/2017 12:21 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series

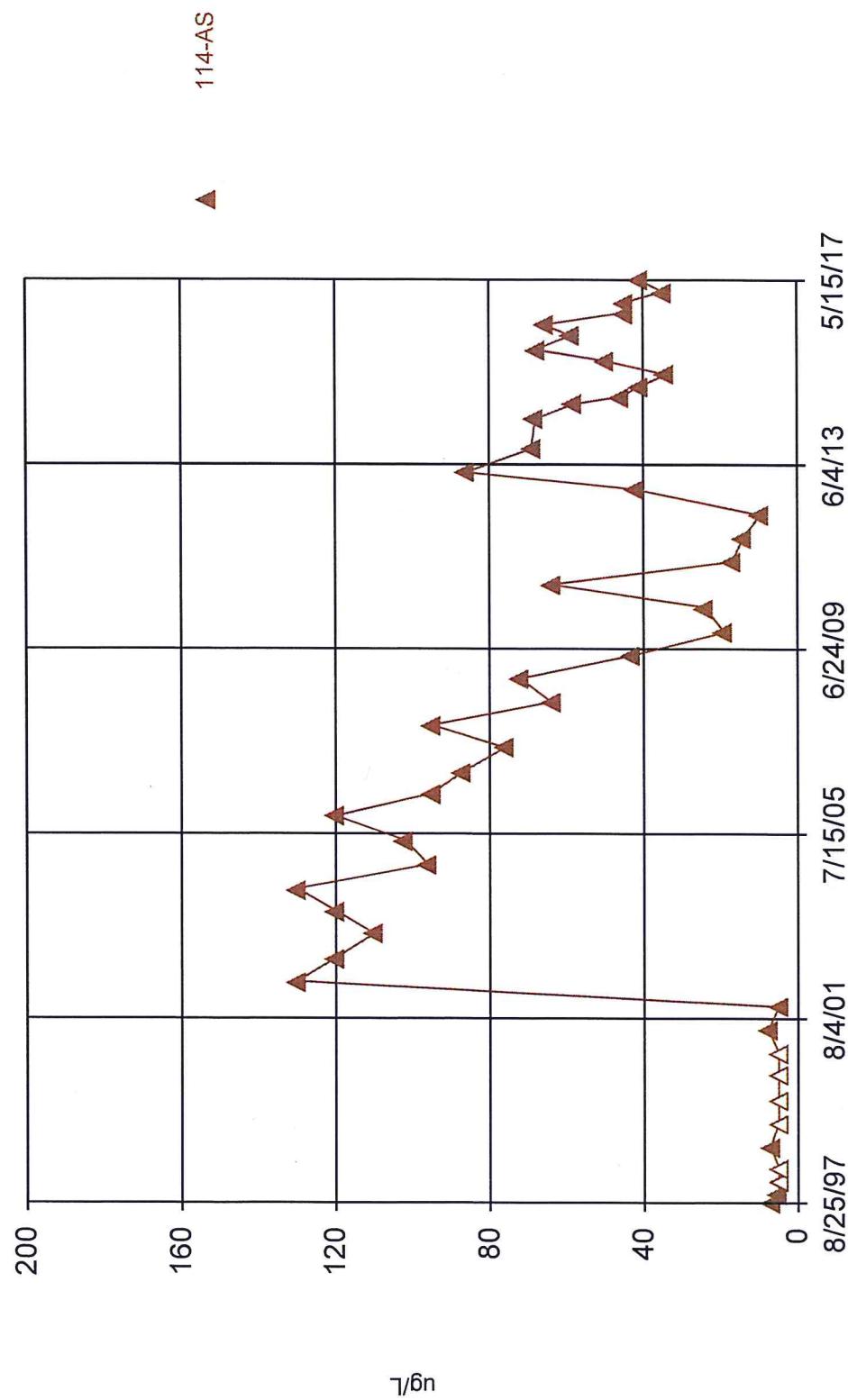


Constituent: Benzene Analysis Run 7/12/2017 12:21 AM

Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series



Constituent: Chlorobenzene Analysis Run 7/12/2017 12:21 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

**APPENDIX D
STATISTICAL EVALUATIONS
ST. LOUIS FORMATION**

**TREND EVALUATION OF
BACKGROUND DATA**

Trend Test

Constituent	Bridgeton LF	Client: RSI	Data: BRIDGETON	Printed 1/7/2016, 1:16 PM				
Well	Slope	Criticl.	Sig.	N	%NDS	Normality	Method	
	Calc.							
Ammonia as N (mg/L)	100-SS (bg)	0	-51	-201	No	40	92.5	n/a
Ammonia as N (mg/L)	104-SS (bg)	0	110	201	No	40	80	n/a
Ammonia as N (mg/L)	105-SS (bg)	0	-138	-201	No	40	85	n/a
Ammonia as N (mg/L)	105-SS (bg)	0	51	201	No	40	67.5	n/a
Ammonia as N (mg/L)	109-SS (bg)	0	-62	-201	No	40	87.5	n/a
Ammonia as N (mg/L)	110-SS (bg)	0.004319	82	201	No	40	5	n/a
Ammonia as N (mg/L)	115-SS (bg)	0	30	201	No	40	67.5	n/a
Ammonia as N (mg/L)	201A-SS (bg)	0	-47	-201	No	40	90	n/a
Ammonia as N (mg/L)	205-SS (bg)	0	-95	-201	No	40	90	n/a
Antimony Total (ug/L)	100-SS (bg)	0	-22	-201	No	40	97.5	n/a
Antimony Total (ug/L)	104-SS (bg)	0	11	201	No	40	100	n/a
Antimony Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a
Antimony Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a
Antimony Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a
Antimony Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a
Antimony Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a
Antimony Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100	n/a
Antimony Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100	n/a
Antimony Total (ug/L)	100-SS (bg)	0	46	201	No	40	97.5	n/a
Antimony Total (ug/L)	104-SS (bg)	0	18	201	No	40	92.5	n/a
Antimony Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	97.5	n/a
Antimony Total (ug/L)	109-SS (bg)	0	89	201	No	40	55	n/a
Antimony Total (ug/L)	105-SS (bg)	0	-171	-201	No	40	90	n/a
Arsenic Total (ug/L)	110-SS (bg)	0	-96	-201	No	40	92.5	n/a
Arsenic Total (ug/L)	115-SS (bg)	0.01852	211	201	Yes	40	55	n/a
Arsenic Total (ug/L)	201A-SS (bg)	0	-85	-201	No	40	87.5	n/a
Arsenic Total (ug/L)	205-SS (bg)	0	-26	-201	No	40	97.5	n/a
Arsenic Total (ug/L)	100-SS (bg)	0.1428	88	201	No	40	0	n/a
Arsenic Total (ug/L)	104-SS (bg)	0.8454	261	201	Yes	40	0	n/a
Arsenic Total (ug/L)	105-SS (bg)	4.903	327	201	Yes	40	0	n/a
Arsenic Total (ug/L)	106-SS (bg)	0	59	201	No	40	0	n/a
Arsenic Total (ug/L)	108-SS (bg)	0	-35	-201	No	40	0	n/a
Barium Total (ug/L)	110-SS (bg)	7.415	420	201	Yes	40	0	n/a
Barium Total (ug/L)	115-SS (bg)	14.74	308	201	Yes	40	0	n/a
Barium Total (ug/L)	201A-SS (bg)	0.64	112	201	No	40	0	n/a
Barium Total (ug/L)	205-SS (bg)	0.4866	202	201	Yes	40	0	n/a
Barium Total (ug/L)	100-SS (bg)	0	116	201	No	40	100	n/a
Barium Total (ug/L)	104-SS (bg)	0	81	201	No	40	100	n/a
Barium Total (ug/L)	105-SS (bg)	0	11	201	No	40	100	n/a
Barium Total (ug/L)	106-SS (bg)	0	81	201	No	40	100	n/a
Barium Total (ug/L)	109-SS (bg)	0	48	201	No	40	100	n/a
Barium Total (ug/L)	110-SS (bg)	0	116	201	No	40	100	n/a
Barium Total (ug/L)	115-SS (bg)	0	48	201	No	40	100	n/a
Barium Total (ug/L)	201A-SS (bg)	0	81	201	No	40	100	n/a
Beryllium Total (ug/L)	205-SS (bg)	0	48	201	No	40	100	n/a
Beryllium Total (ug/L)	100-SS (bg)	1.059	234	201	Yes	40	10	n/a
Beryllium Total (ug/L)	104-SS (bg)	3.228	377	201	Yes	40	20	n/a
Beryllium Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a
Beryllium Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a
Beryllium Total (ug/L)	109-SS (bg)	-0.3624	-57	-201	No	40	0	n/a

Trend Test

Page 2

BRIDGETON Printed 1/7/2016, 1:16 PM									
Method	Well	Slope	Calc.	Critical	Sig.	N	%NDS	Normality	Xform
Boron Total (ug/L)	110-SS (bg)	-0.6411	-87	-201	No	40	2.5	n/a	n/a
Boron Total (ug/L)	115-SS (bg)	12.11	266	201	Yes	40	27.5	n/a	n/a
Boron Total (ug/L)	201A-SS (bg)	0	-27	-201	No	40	100	n/a	n/a
Boron Total (ug/L)	205-SS (bg)	0	-63	-201	No	40	97.5	n/a	n/a
Boron Total (ug/L)	100-SS (bg)	0	-61	-201	No	40	97.5	n/a	n/a
Boron Total (ug/L)	104-SS (bg)	0	-35	-201	No	40	100	n/a	n/a
Boron Total (ug/L)	105-SS (bg)	0	-92	-201	No	40	97.5	n/a	n/a
Boron Total (ug/L)	106-SS (bg)	0	-63	-201	No	40	95	n/a	n/a
Boron Total (ug/L)	109-SS (bg)	0	-87	-201	No	40	95	n/a	n/a
Boron Total (ug/L)	110-SS (bg)	0	-34	-201	No	40	100	n/a	n/a
Boron Total (ug/L)	115-SS (bg)	0	-89	-201	No	40	95	n/a	n/a
Boron Total (ug/L)	201A-SS (bg)	0	-66	-201	No	40	97.5	n/a	n/a
Boron Total (ug/L)	205-SS (bg)	0	-165	-201	No	40	87.5	n/a	n/a
Boron Total (ug/L)	100-SS (bg)	-114.8	-79	-201	No	40	0	n/a	n/a
Boron Total (ug/L)	104-SS (bg)	243.6	118	201	No	40	0	n/a	n/a
Boron Total (ug/L)	105-SS (bg)	1908	403	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	106-SS (bg)	584.2	291	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	109-SS (bg)	273.8	151	201	No	40	0	n/a	n/a
Boron Total (ug/L)	110-SS (bg)	3124	313	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	115-SS (bg)	4611	259	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	201A-SS (bg)	941.3	409	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	205-SS (bg)	391	295	201	Yes	40	0	n/a	n/a
Boron Total (ug/L)	100-SS (bg)	0	-301	-201	Yes	40	97.5	n/a	n/a
Boron Total (ug/L)	104-SS (bg)	0	73	201	No	40	75	n/a	n/a
Boron Total (ug/L)	105-SS (bg)	0	-161	-201	No	40	75	n/a	n/a
Boron Total (ug/L)	106-SS (bg)	0	-339	-201	Yes	40	90	n/a	n/a
Boron Total (ug/L)	109-SS (bg)	0	-268	-201	Yes	40	95	n/a	n/a
Boron Total (ug/L)	110-SS (bg)	0.5451	88	201	No	40	0	n/a	n/a
Boron Total (ug/L)	115-SS (bg)	1.334	147	201	No	40	30	n/a	n/a
Boron Total (ug/L)	201A-SS (bg)	0	-366	-201	Yes	40	95	n/a	n/a
Boron Total (ug/L)	205-SS (bg)	0	-229	-201	Yes	40	90	n/a	n/a
Boron Total (ug/L)	100-SS (bg)	-0.1805	-260	-201	Yes	40	0	n/a	n/a
Chloride (mg/L)	104-SS (bg)	0.1495	335	201	Yes	40	40	n/a	n/a
Chloride (mg/L)	105-SS (bg)	4.592	437	201	Yes	40	0	n/a	n/a
Chloride (mg/L)	106-SS (bg)	0.9369	452	201	Yes	40	2.5	n/a	n/a
Chloride (mg/L)	109-SS (bg)	-0.09448	-319	-201	Yes	40	0	n/a	n/a
Chloride (mg/L)	110-SS (bg)	2.339	204	201	Yes	40	2.5	n/a	n/a
Chloride (mg/L)	115-SS (bg)	11.58	248	201	Yes	40	0	n/a	n/a
Chloride (mg/L)	201A-SS (bg)	0.1287	491	201	Yes	40	30	n/a	n/a
Chloride (mg/L)	205-SS (bg)	0.7123	329	201	Yes	40	2.5	n/a	n/a
Chloride (mg/L)	100-SS (bg)	0	-157	-201	No	40	90	n/a	n/a
Chromium Total (ug/L)	104-SS (bg)	0	-180	-201	No	40	95	n/a	n/a
Chromium Total (ug/L)	105-SS (bg)	0	-82	-201	No	40	97.5	n/a	n/a
Chromium Total (ug/L)	106-SS (bg)	0	-83	-201	No	40	90	n/a	n/a
Chromium Total (ug/L)	109-SS (bg)	0	-192	-201	No	40	82.5	n/a	n/a
Chromium Total (ug/L)	110-SS (bg)	0	-190	-201	No	40	95	n/a	n/a
Chromium Total (ug/L)	115-SS (bg)	0	-46	-201	No	40	97.5	n/a	n/a
Chromium Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	92.5	n/a	n/a
Chromium Total (ug/L)	205-SS (bg)	0	-132	-201	No	40	85	n/a	n/a
Chromium Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100	n/a	n/a

Trend Test

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDS	Normality	Method
Cobalt Total (ug/L)	104-SS (bg)	0	-135	-201	No	40	100	n/a	n/a
Cobalt Total (bg/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a
Cobalt Total (ug/L)	106-SS (bg)	0	-135	-201	No	40	100	n/a	n/a
Cobalt Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100	n/a	n/a
Cobalt Total (ug/L)	110-SS (bg)	0	-170	-201	No	40	97.5	n/a	n/a
Cobalt Total (ug/L)	115-SS (bg)	0.262	172	201	No	40	42.5	n/a	n/a
Cobalt Total (bg)	201A-SS (bg)	0	-135	-201	No	40	100	n/a	n/a
Cobalt Total (ug/L)	205-SS (bg)	0	-102	-201	No	40	97.5	n/a	n/a
Copper Total (ug/L)	100-SS (bg)	0	-164	-201	No	40	97.5	n/a	n/a
Copper Total (bg)	104-SS (bg)	0	-136	-201	No	40	100	n/a	n/a
Copper Total (ug/L)	105-SS (bg)	0	-80	-201	No	40	97.5	n/a	n/a
Copper Total (ug/L)	106-SS (bg)	0	-102	-201	No	40	95	n/a	n/a
Copper Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a
Copper Total (ug/L)	110-SS (bg)	0	-110	-201	No	40	70	n/a	n/a
Copper Total (bg)	115-SS (bg)	0	-72	-201	No	40	82.5	n/a	n/a
Copper Total (ug/L)	201A-SS (bg)	0	-138	-201	No	40	97.5	n/a	n/a
Copper Total (bg)	205-SS (bg)	0	-25	-201	No	40	90	n/a	n/a
Fluoride (mg/L)	100-SS (bg)	-0.00...	-214	-186	Yes	38	2.632	n/a	n/a
Fluoride (mg/L)	104-SS (bg)	0	-1	-186	No	38	2.632	n/a	n/a
Fluoride (mg/L)	105-SS (bg)	-0.01749	-384	-186	Yes	38	0	n/a	n/a
Fluoride (mg/L)	106-SS (bg)	-0.00...	-94	-186	No	38	0	n/a	n/a
Fluoride (mg/L)	109-SS (bg)	0.0198	264	186	Yes	38	0	n/a	n/a
Fluoride (mg/L)	110-SS (bg)	-0.01819	-375	-186	Yes	38	0	n/a	n/a
Fluoride (mg/L)	115-SS (bg)	-0.05116	-340	-186	Yes	38	0	n/a	n/a
Fluoride (mg/L)	201A-SS (bg)	-0.00...	-341	-186	Yes	38	0	n/a	n/a
Fluoride (mg/L)	205-SS (bg)	-0.00...	-188	-186	Yes	38	0	n/a	n/a
Hardness Total (mg/L)	100-SS (bg)	0	7	201	No	40	0	n/a	n/a
Hardness Total (mg/L)	104-SS (bg)	1.426	170	201	No	40	0	n/a	n/a
Hardness Total (mg/L)	105-SS (bg)	9.008	387	201	Yes	40	0	n/a	n/a
Hardness Total (mg/L)	106-SS (bg)	2.804	278	201	Yes	40	0	n/a	n/a
Hardness Total (mg/L)	109-SS (bg)	1.292	165	201	No	40	0	n/a	n/a
Hardness Total (mg/L)	110-SS (bg)	10.01	287	201	Yes	40	0	n/a	n/a
Hardness Total (mg/L)	115-SS (bg)	18.87	276	201	Yes	40	0	n/a	n/a
Hardness Total (mg/L)	201A-SS (bg)	4.532	349	201	Yes	40	0	n/a	n/a
Hardness Total (mg/L)	205-SS (bg)	3.993	352	201	Yes	40	0	n/a	n/a
Iron Total (ug/L)	100-SS (bg)	0	-28	-201	No	40	25	n/a	n/a
Iron Total (ug/L)	104-SS (bg)	-116.2	-276	-201	Yes	40	0	n/a	n/a
Iron Total (ug/L)	105-SS (bg)	-44.5	-178	-201	No	40	0	n/a	n/a
Iron Total (ug/L)	106-SS (bg)	51.01	414	201	Yes	40	0	n/a	n/a
Iron Total (ug/L)	109-SS (bg)	-18.82	-357	-201	Yes	40	5	n/a	n/a
Iron Total (ug/L)	110-SS (bg)	107.5	166	201	No	40	2.5	n/a	n/a
Iron Total (ug/L)	115-SS (bg)	100.5	332	201	Yes	40	0	n/a	n/a
Iron Total (ug/L)	201A-SS (bg)	-24.16	-189	-201	No	40	0	n/a	n/a
Iron Total (ug/L)	205-SS (bg)	-33.55	-182	-201	No	40	0	n/a	n/a
Lead Total (ug/L)	100-SS (bg)	0	-93	-201	No	40	95	n/a	n/a
Lead Total (ug/L)	104-SS (bg)	0	-62	-201	No	40	95	n/a	n/a
Lead Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100	n/a	n/a
Lead Total (ug/L)	106-SS (bg)	0	11	201	No	40	100	n/a	n/a
Lead Total (ug/L)	109-SS (bg)	0	-100	-201	No	40	97.5	n/a	n/a
Lead Total (ug/L)	110-SS (bg)	0	46	201	No	40	100	n/a	n/a

Printed 1/7/2016, 1:16 PM
 Data: BRIDGETON
 Client: RSI
 Bridgeton LF
 %NDS
 Sig.
 Critical
 Calc.
 Well
 Method
 Alpha
 Xform
 %NDS
 N
 Normality
 Method

Trend Test

Constituent	Well	Bridgeton LF	Client: RSI	Data: BRIDGETON	Printed 1/7/2016, 1:16 PM				
	Slope	Calc.	Critical	Sig.	N	%NDS	Normality	Xform	Method
Lead Total (ug/L)	115-SS (bg)	0	-28	-201	No	40	100	n/a	0.02
Lead Total (ug/L)	201A-SS (bg)	0	-132	-201	No	40	95	n/a	0.02
Lead Total (ug/L)	205-SS (bg)	0	-16	-201	No	40	87.5	n/a	0.02
Magnesium Total (ug/L)	100-SS (bg)	175.4	165	201	No	40	0	n/a	0.02
Magnesium Total (ug/L)	104-SS (bg)	266.6	263	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	105-SS (bg)	937	399	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	106-SS (bg)	346.9	326	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	109-SS (bg)	96.8	100	201	No	40	0	n/a	0.02
Magnesium Total (ug/L)	110-SS (bg)	851.4	291	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	115-SS (bg)	1502	244	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	201A-SS (bg)	642.5	444	201	Yes	40	0	n/a	0.02
Magnesium Total (ug/L)	205-SS (bg)	484.6	412	201	Yes	40	0	n/a	0.02
Manganese Total (ug/L)	100-SS (bg)	0	-215	-201	Yes	40	57.5	n/a	0.02
Manganese Total (ug/L)	104-SS (bg)	-0.9428	-141	-201	No	40	2.5	n/a	0.02
Manganese Total (ug/L)	105-SS (bg)	-0.6502	-127	-201	No	40	2.5	n/a	0.02
Manganese Total (ug/L)	106-SS (bg)	0.355	77	201	No	40	2.5	n/a	0.02
Manganese Total (ug/L)	109-SS (bg)	-0.8628	-304	-201	Yes	40	42.5	n/a	0.02
Manganese Total (ug/L)	110-SS (bg)	2.934	236	201	Yes	40	0	n/a	0.02
Manganese Total (ug/L)	115-SS (bg)	3.607	301	201	Yes	40	2.5	n/a	0.02
Manganese Total (ug/L)	201A-SS (bg)	-11.65	-318	-201	Yes	40	0	n/a	0.02
Manganese Total (ug/L)	205-SS (bg)	-0.5884	-264	-201	Yes	40	30	n/a	0.02
Mercury Total (ug/L)	100-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	104-SS (bg)	0	-61	-201	No	40	97.5	n/a	0.02
Mercury Total (ug/L)	105-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	106-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	109-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	110-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	115-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Mercury Total (ug/L)	201A-SS (bg)	0	-53	-201	No	40	97.5	n/a	0.02
Mercury Total (ug/L)	205-SS (bg)	0	-27	-201	No	40	100	n/a	0.02
Nickel Total (ug/L)	100-SS (bg)	-0.5913	-261	-201	Yes	40	10	n/a	0.02
Nickel Total (ug/L)	104-SS (bg)	0	-130	-201	No	40	97.5	n/a	0.02
Nickel Total (ug/L)	105-SS (bg)	0	-54	-201	No	40	97.5	n/a	0.02
Nickel Total (ug/L)	106-SS (bg)	0	-170	-201	No	40	97.5	n/a	0.02
Nickel Total (ug/L)	109-SS (bg)	0	-132	-201	No	40	95	n/a	0.02
Nickel Total (ug/L)	110-SS (bg)	0	-40	-201	No	40	25	n/a	0.02
Nickel Total (ug/L)	115-SS (bg)	1.87	232	201	Yes	40	30	n/a	0.02
Nickel Total (ug/L)	201A-SS (bg)	0	-126	-201	No	40	97.5	n/a	0.02
Nickel Total (ug/L)	205-SS (bg)	0	-100	-201	No	40	97.5	n/a	0.02
Nickel Total (ug/L)	109-SS (bg)	0	-74	-201	No	40	75	n/a	0.02
Nickel Total (ug/L)	110-SS (bg)	0	-19	-201	No	40	97.5	n/a	0.02
Nitrate/Nitrite (mg/L)	104-SS (bg)	0	58	201	No	40	90	n/a	0.02
Nitrate/Nitrite (mg/L)	105-SS (bg)	0	-46	-201	No	40	95	n/a	0.02
Nitrate/Nitrite (mg/L)	106-SS (bg)	0	-64	-201	No	40	92.5	n/a	0.02
Nitrate/Nitrite (mg/L)	109-SS (bg)	0	-18	-201	No	40	95	n/a	0.02
Nitrate/Nitrite (mg/L)	110-SS (bg)	0	-19	-201	No	40	97.5	n/a	0.02
Nitrate/Nitrite (mg/L)	115-SS (bg)	0	-40	-201	No	40	97.5	n/a	0.02
Nitrate/Nitrite (mg/L)	201A-SS (bg)	0.01	364	201	Yes	40	50	n/a	0.02
Nitrate/Nitrite (mg/L)	205-SS (bg)	0	-18	-201	No	40	95	n/a	0.02
pH [Field] (su)	100-SS (bg)	-0.01736	-186	-201	No	40	0	n/a	0.02
pH [Field] (su)	104-SS (bg)	-0.0405	-277	-201	Yes	40	0	n/a	0.02

Trend Test

Constituent	Well	Slope	Criticl.	Sig.	%NDS	Normality	Printed 1/7/2016, 1:16 PM
		Calc.			N		
pH [Field] (su)	105-SS (bg)	-0.02251	-283	-201	Yes	40	n/a
pH [Field] (su)	106-SS (bg)	-0.02559	-255	-201	Yes	40	n/a
pH [Field] (su)	109-SS (bg)	-0.01655	-162	-201	No	40	n/a
pH [Field] (su)	110-SS (bg)	-0.01825	-207	-201	Yes	40	n/a
pH [Field] (su)	115-SS (bg)	-0.02196	-199	-201	No	40	n/a
pH [Field] (su)	201A-SS (bg)	-0.0296	-300	-201	Yes	40	n/a
pH [Field] (su)	205-SS (bg)	-0.01733	-228	-201	Yes	40	n/a
Phosphorus Total (mg/L)	100-SS (bg)	0	-178	-201	No	40	70
Phosphorus Total (mg/L)	104-SS (bg)	0	-95	-201	No	40	60
Phosphorus Total (mg/L)	105-SS (bg)	-0.00...	-509	-201	Yes	40	50
Phosphorus Total (mg/L)	106-SS (bg)	0	-90	-201	No	40	72.5
Phosphorus Total (mg/L)	109-SS (bg)	0	-77	-201	No	40	72.5
Phosphorus Total (mg/L)	110-SS (bg)	-0.00...	-147	-201	No	40	2.5
Phosphorus Total (mg/L)	115-SS (bg)	0.009173	344	201	Yes	40	10
Phosphorus Total (mg/L)	201A-SS (bg)	0	-217	-201	No	40	70
Phosphorus Total (mg/L)	205-SS (bg)	0	-16	-201	No	40	n/a
Selenium Total (ug/L)	100-SS (bg)	0	46	201	No	40	100
Selenium Total (ug/L)	104-SS (bg)	0	11	201	No	40	100
Selenium Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100
Selenium Total (ug/L)	106-SS (bg)	0	11	201	No	40	100
Selenium Total (ug/L)	109-SS (bg)	0	41	201	No	40	80
Selenium Total (ug/L)	110-SS (bg)	0	45	201	No	40	97.5
Selenium Total (ug/L)	115-SS (bg)	0	-62	-201	No	40	97.5
Selenium Total (ug/L)	201A-SS (bg)	0	11	201	No	40	100
Selenium Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100
Silver Total (ug/L)	100-SS (bg)	0	-100	-201	No	40	100
Silver Total (ug/L)	104-SS (bg)	0	-98	-194	No	39	100
Silver Total (ug/L)	105-SS (bg)	0	-65	-201	No	40	100
Silver Total (ug/L)	106-SS (bg)	0	-61	-186	No	38	100
Silver Total (ug/L)	109-SS (bg)	0	-28	-201	No	40	100
Silver Total (ug/L)	110-SS (bg)	0	-100	-201	No	40	100
Silver Total (ug/L)	115-SS (bg)	0	-58	-201	No	40	97.5
Silver Total (ug/L)	201A-SS (bg)	0	-135	-201	No	40	100
Silver Total (ug/L)	205-SS (bg)	0	-28	-201	No	40	100
Sodium Total (ug/L)	100-SS (bg)	-831.9	-488	-201	Yes	40	0
Sodium Total (ug/L)	104-SS (bg)	-502.2	-400	-201	Yes	40	0
Sodium Total (ug/L)	105-SS (bg)	571	215	201	Yes	40	0
Sodium Total (ug/L)	106-SS (bg)	269.6	394	201	Yes	40	0
Sodium Total (ug/L)	109-SS (bg)	-794.1	-400	-201	Yes	40	0
Sodium Total (ug/L)	110-SS (bg)	154.7	33	201	No	40	0
Sodium Total (ug/L)	115-SS (bg)	3767	297	201	Yes	40	0
Sodium Total (ug/L)	201A-SS (bg)	-1529	-493	-201	Yes	40	0
Sodium Total (ug/L)	205-SS (bg)	-392.5	-234	-201	Yes	40	0
Specific Conductance [Field] (u...	100-SS (bg)	-3.436	-194	-201	No	40	0
Specific Conductance [Field] (u...	104-SS (bg)	3.086	107	201	No	40	0
Specific Conductance [Field] (u...	105-SS (bg)	17.15	333	201	Yes	40	0
Specific Conductance [Field] (u...	106-SS (bg)	3.452	173	201	No	40	0
Specific Conductance [Field] (u...	109-SS (bg)	-1.534	-92	-201	No	40	0
Specific Conductance [Field] (u...	110-SS (bg)	16.95	292	201	Yes	40	0
Specific Conductance [Field] (u...	115-SS (bg)	55.65	298	201	Yes	40	0

Trend Test

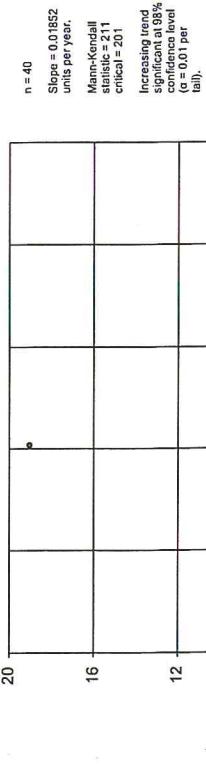
Page 6

Trend Test

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

Sen's Slope Estimator

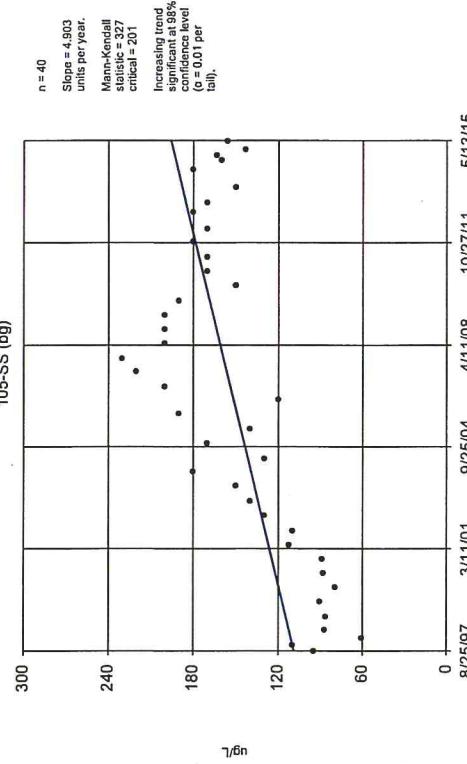
115-SS (bg)



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

Sen's Slope Estimator

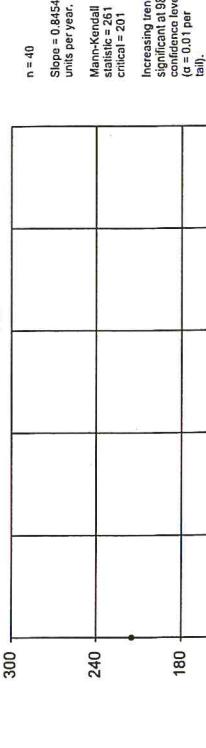
105-SS (bg)



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

Sen's Slope Estimator

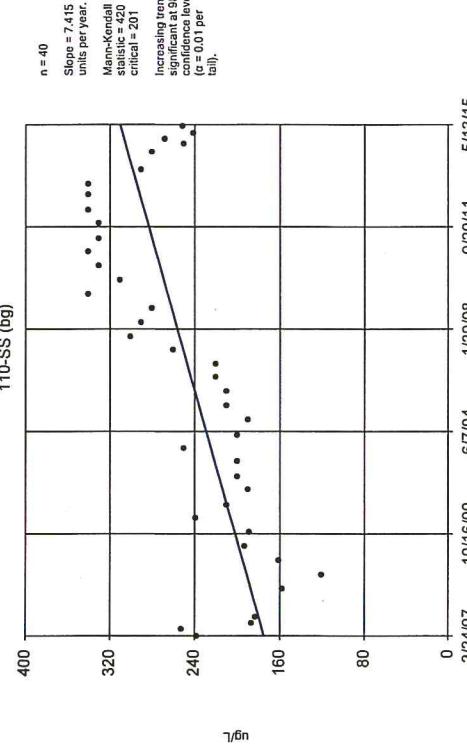
104-SS (bg)



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

Sen's Slope Estimator

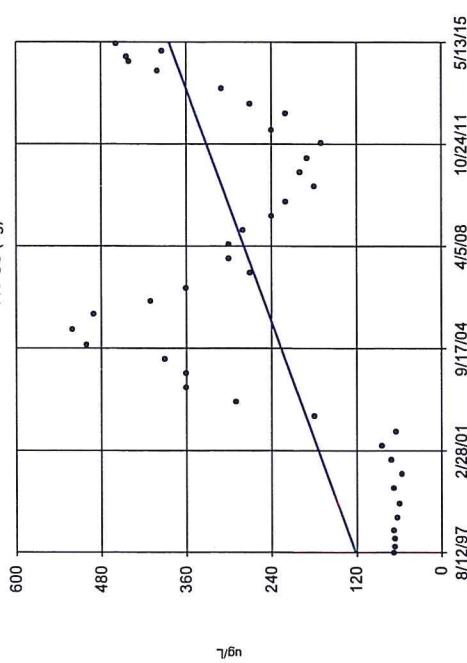
110-SS (bg)



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

Sen's Slope Estimator

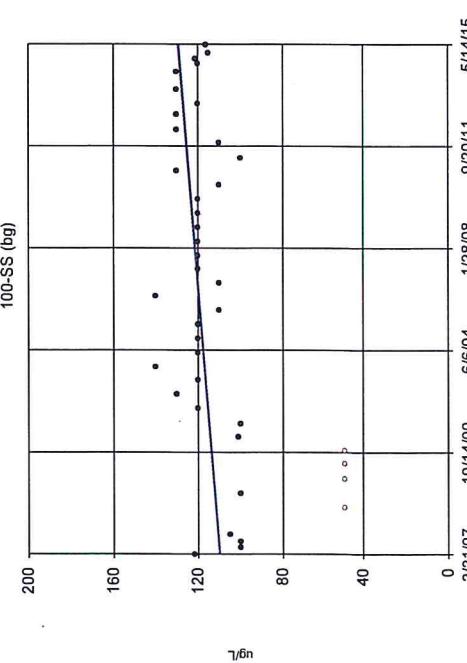
115-SS (bg)



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

Sen's Slope Estimator

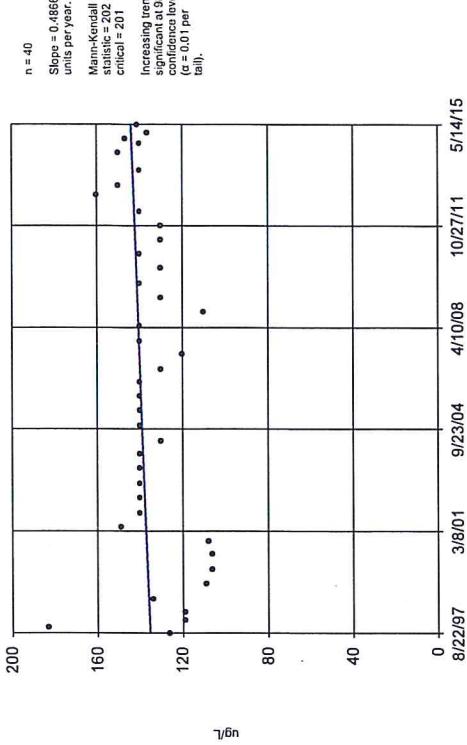
100-SS (bg)



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

Sen's Slope Estimator

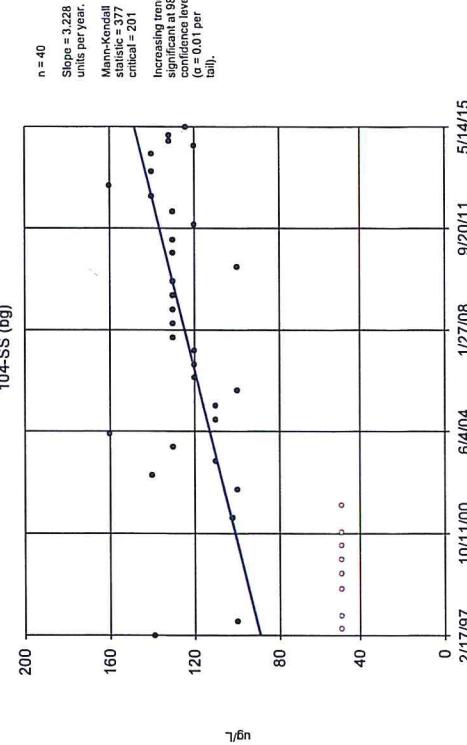
205-SS (bg)



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

Sen's Slope Estimator

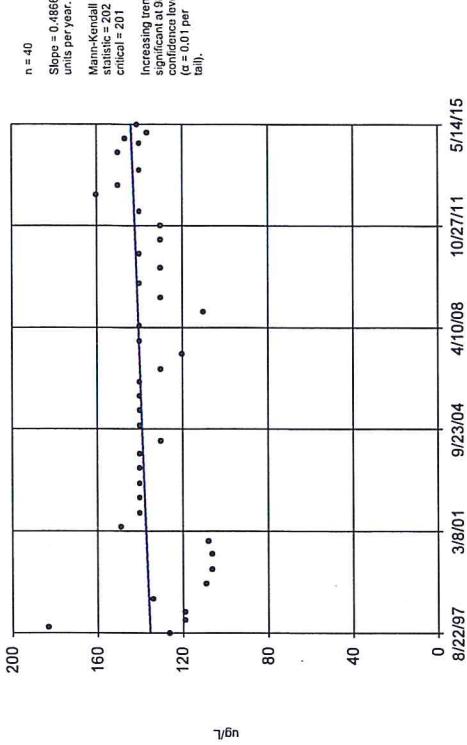
104-SS (bg)



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

Sen's Slope Estimator

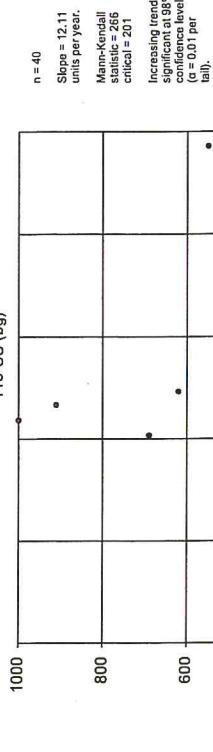
205-SS (bg)



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

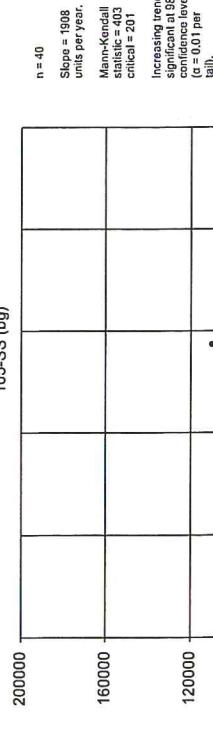
Sen's Slope Estimator

115-SS (bg)



Sen's Slope Estimator

105-SS (bg)

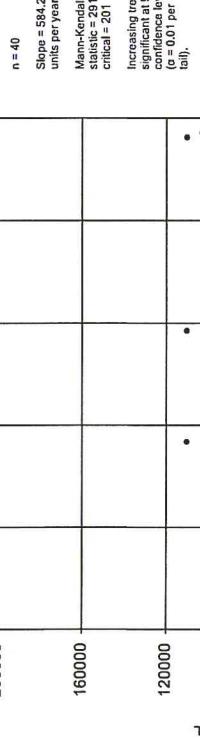


Constituent: Boron Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

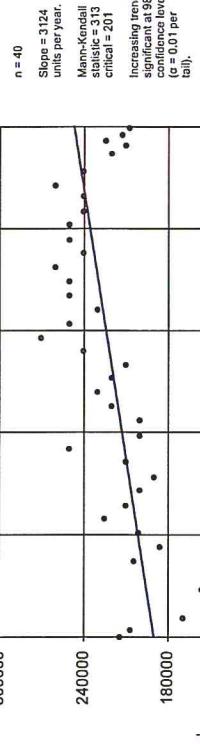
Sen's Slope Estimator

106-SS (bg)



Sen's Slope Estimator

110-SS (bg)

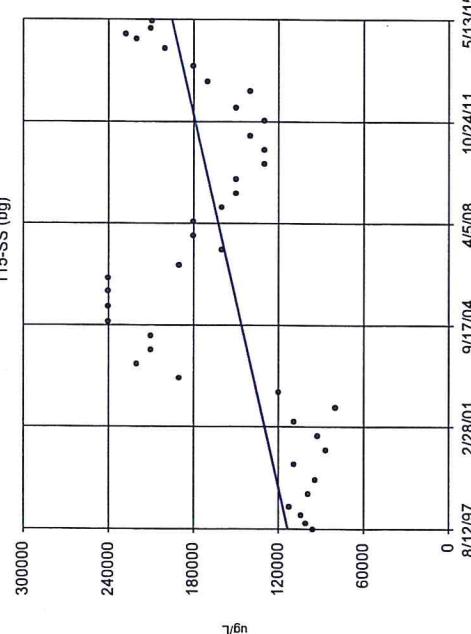


Constituent: Calcium Total Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

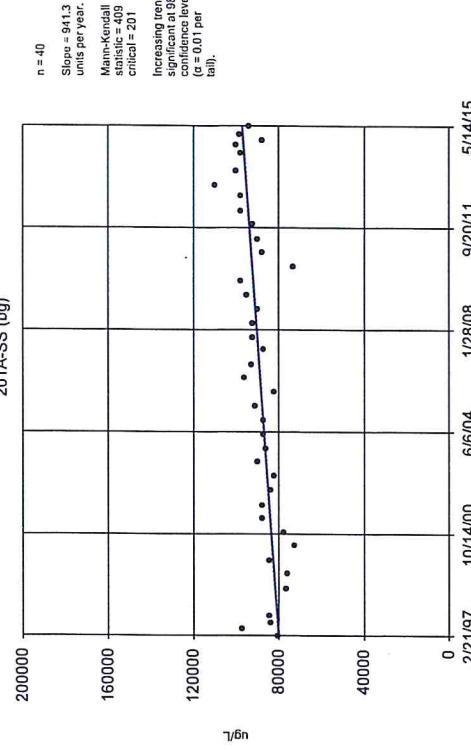
Sen's Slope Estimator

115-SS (bg)



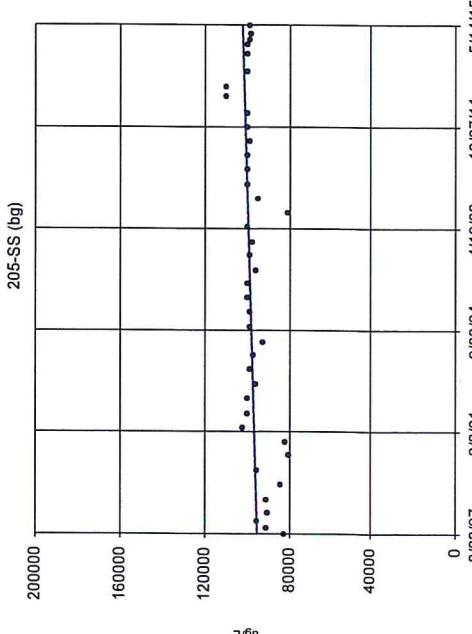
Sen's Slope Estimator

201A-SS (bg)



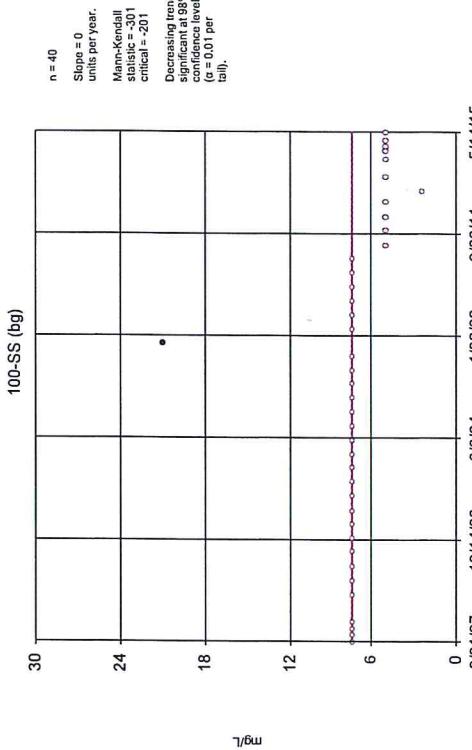
Sen's Slope Estimator

205-SS (bg)



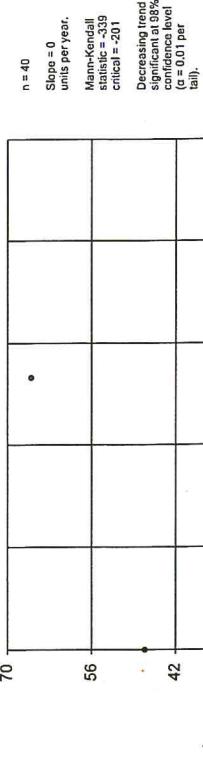
Sen's Slope Estimator

100-SS (bg)



Sen's Slope Estimator

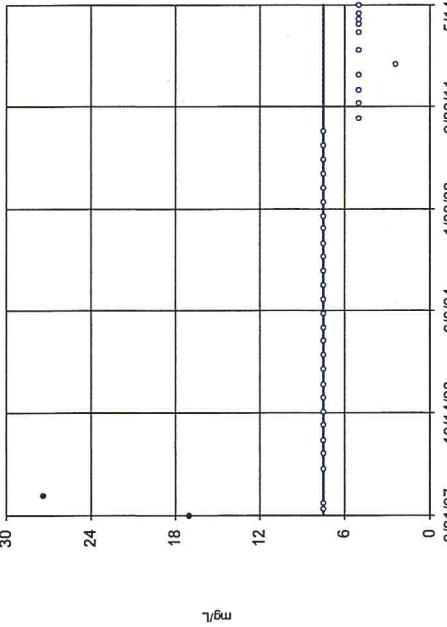
106-SS (bg)



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

Sen's Slope Estimator

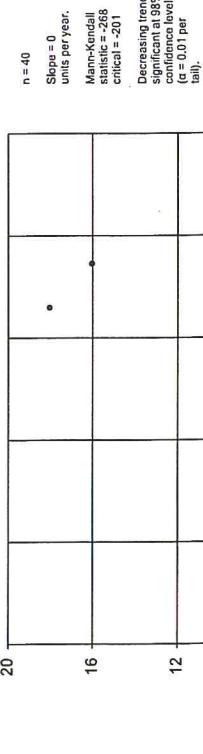
201A-SS (bg)



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

Sen's Slope Estimator

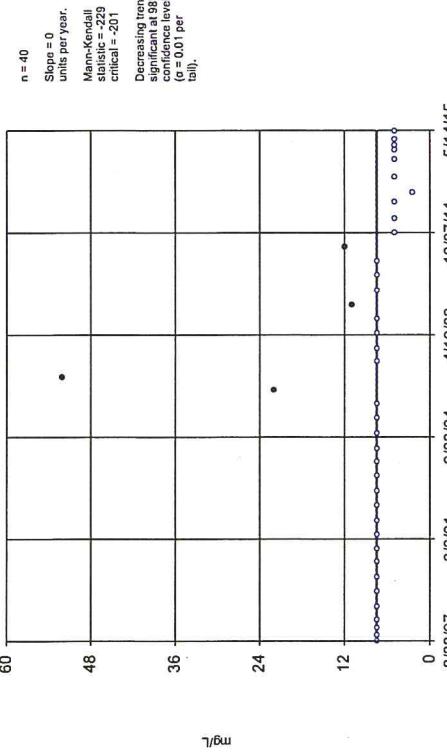
109-SS (bg)



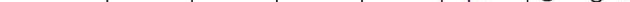
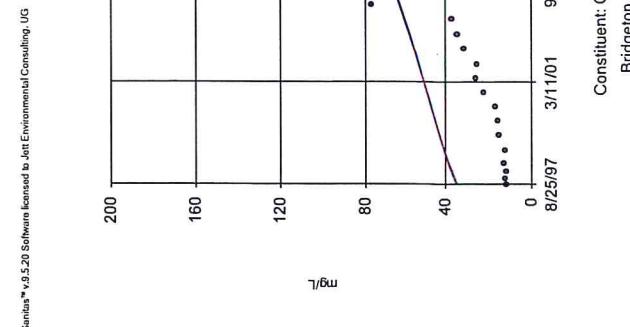
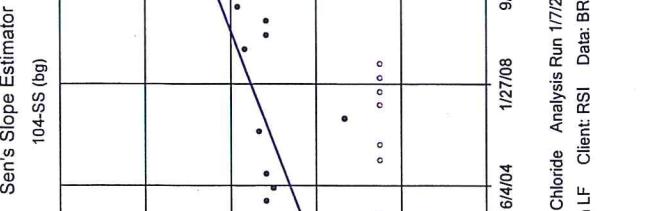
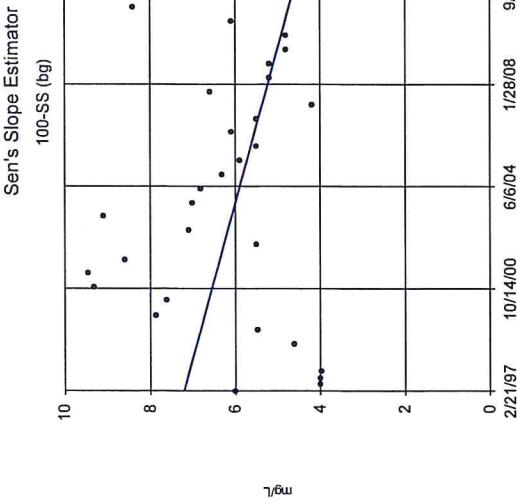
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

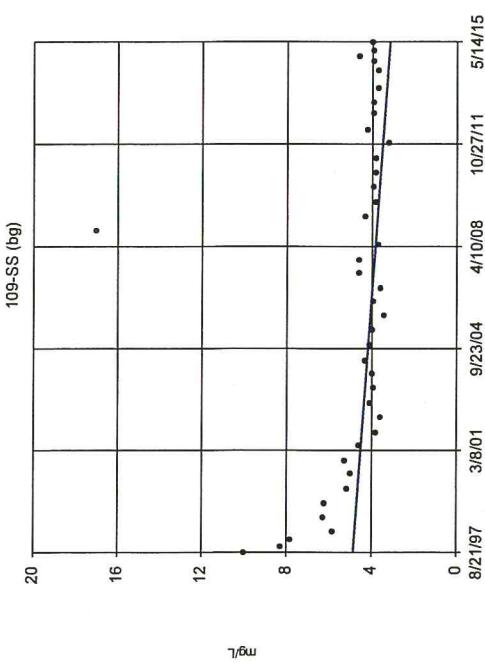
205-SS (bg)



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

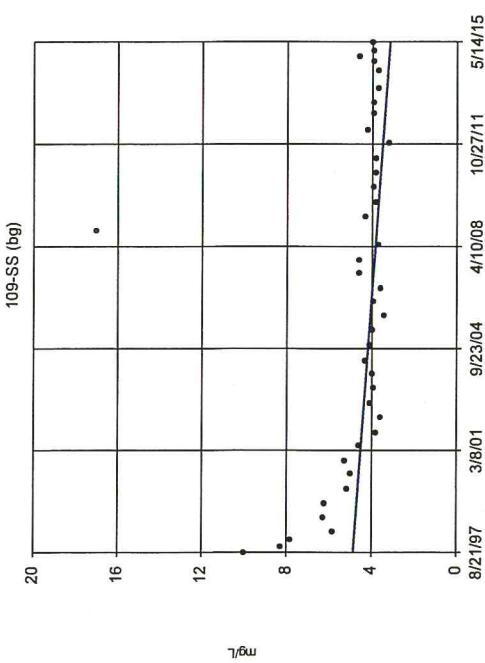


Sen's Slope Estimator

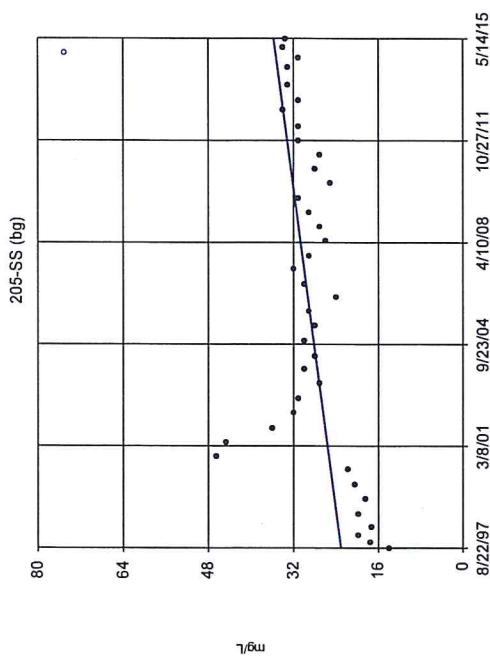


Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

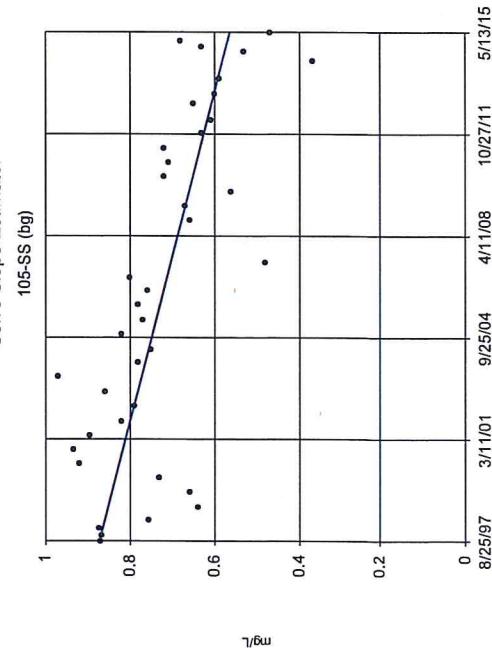


Sen's Slope Estimator



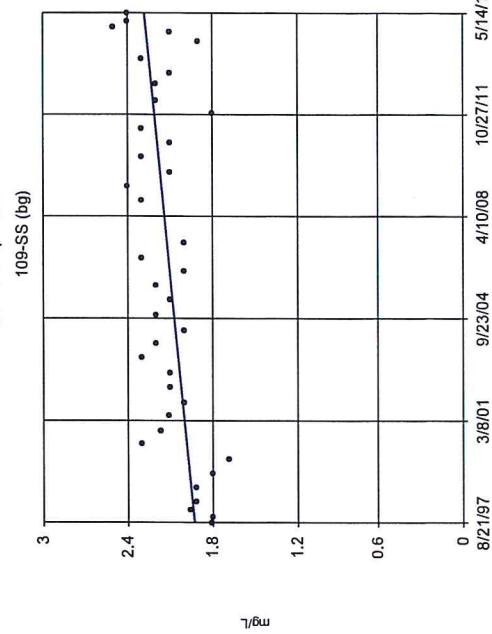
Constituent: Chloride Analysis Run 1/7/2016 1:04 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



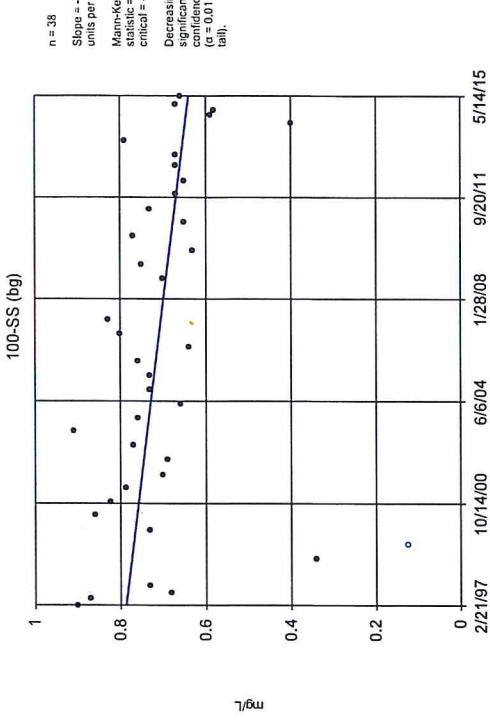
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



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

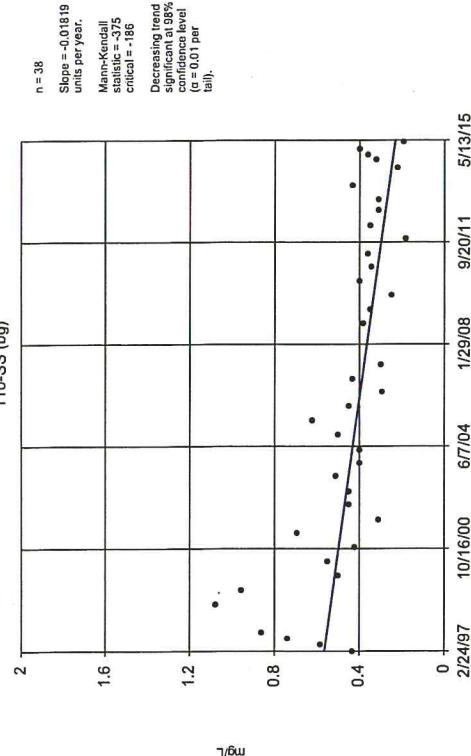
Sen's Slope Estimator



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



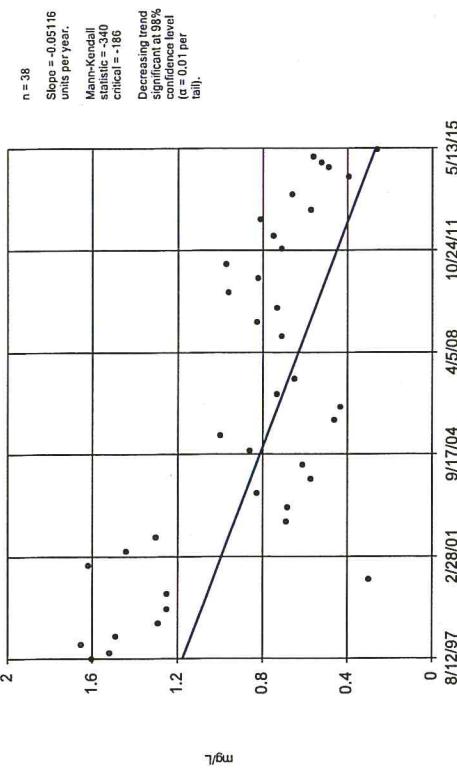
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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



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



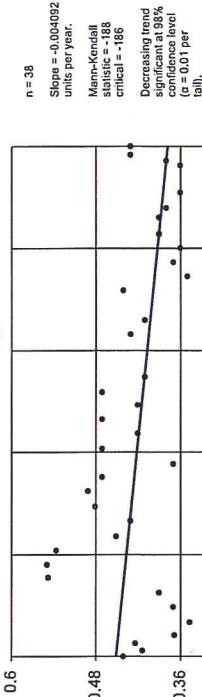
Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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

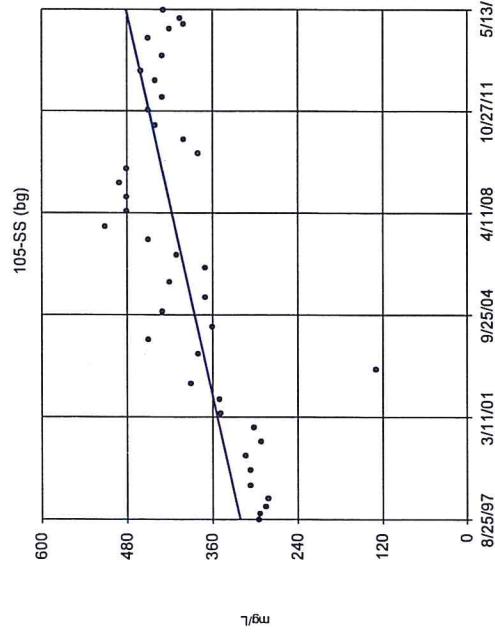


Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

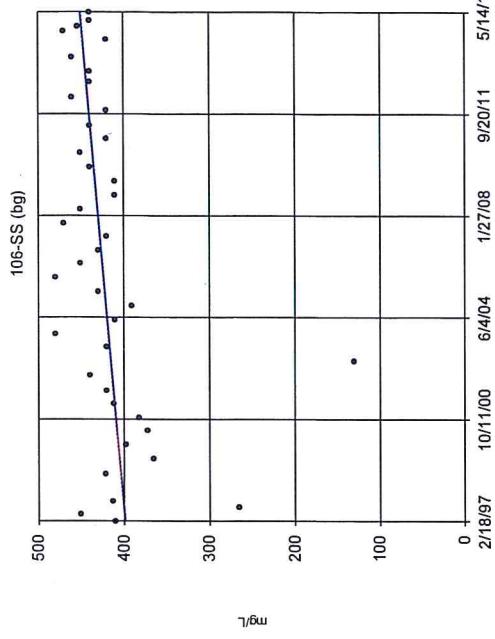


Constituent: Fluoride Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

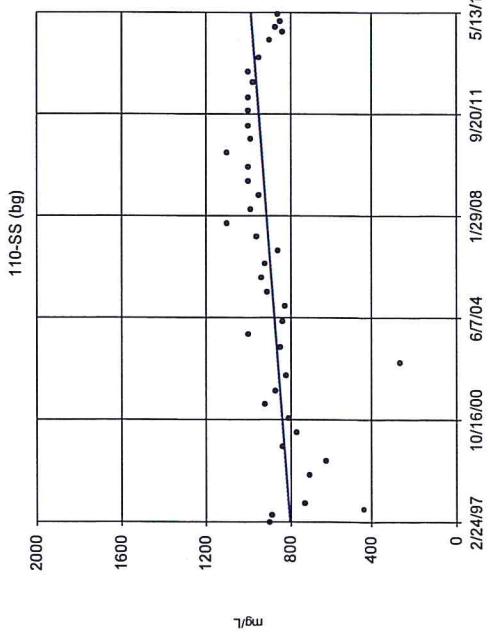
Sen's Slope Estimator



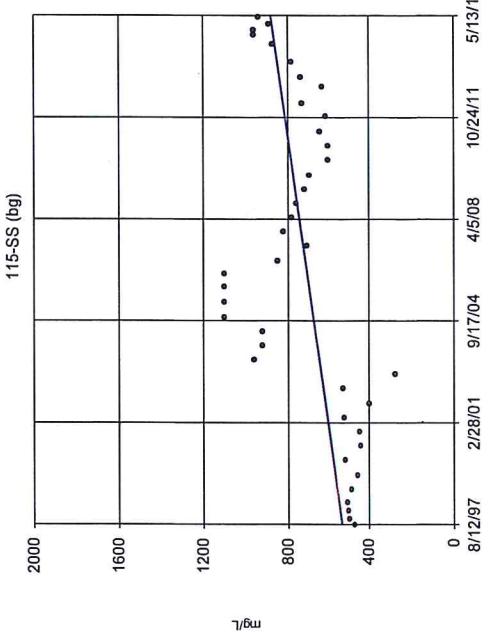
Sen's Slope Estimator

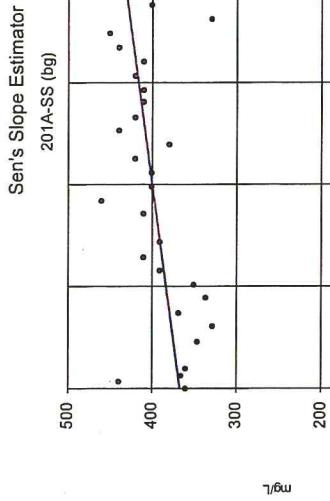


Sen's Slope Estimator

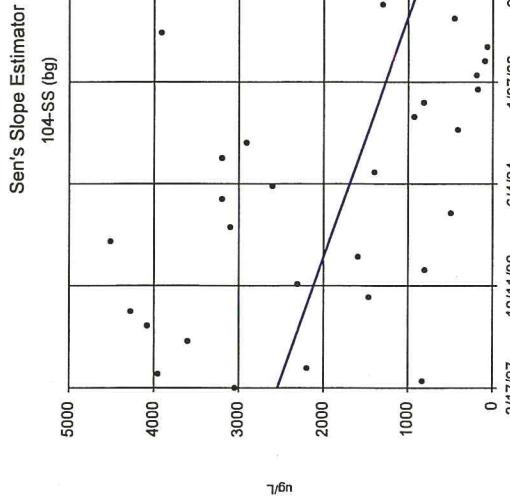


Sen's Slope Estimator

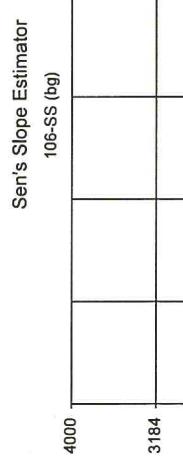




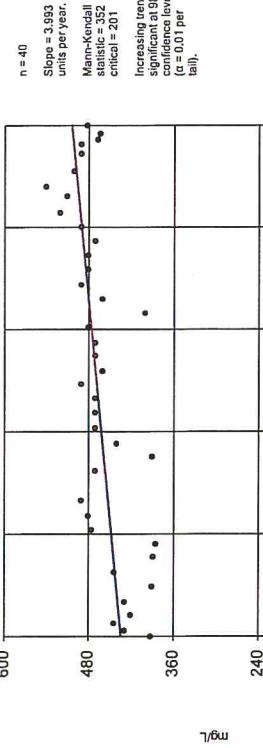
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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



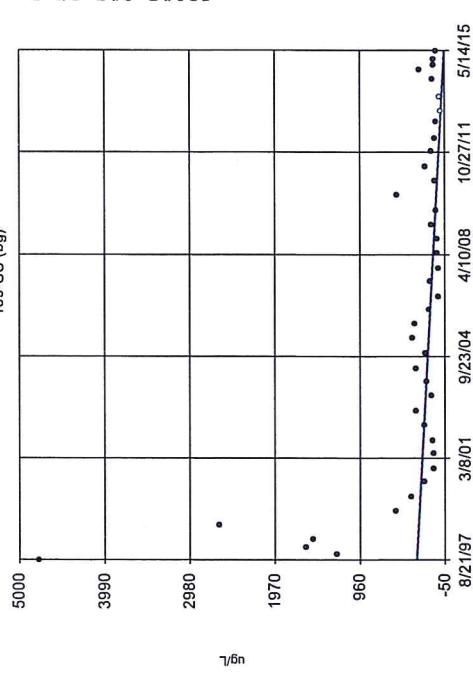
Constituent: Hardness Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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

Sen's Slope Estimator

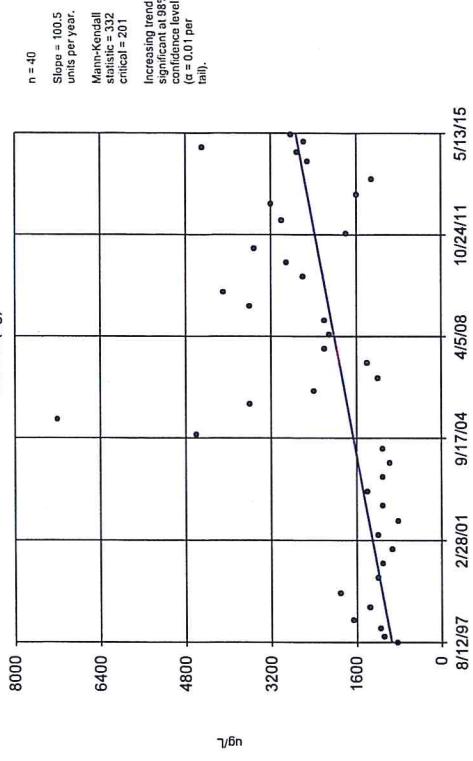
109-SS (bg)



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

Sen's Slope Estimator

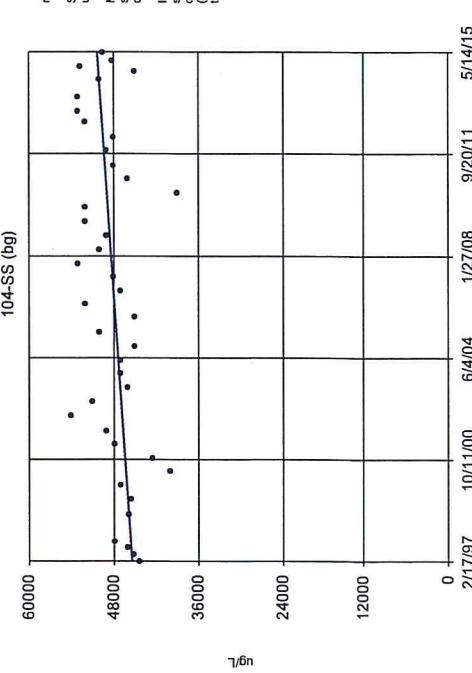
115-SS (bg)



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

Sen's Slope Estimator

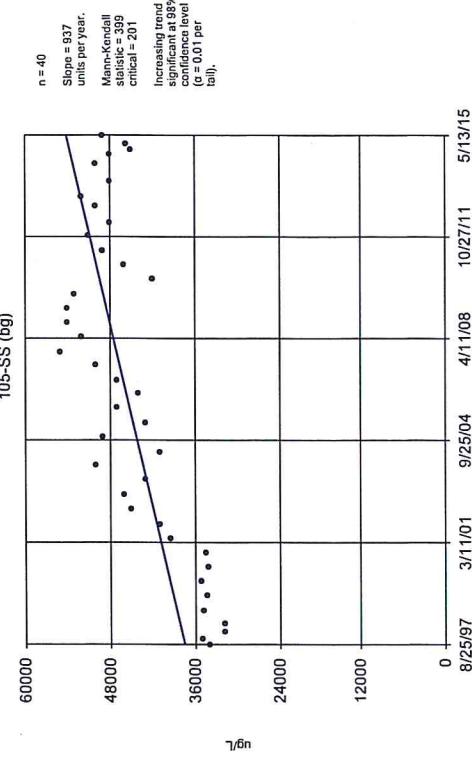
104-SS (bg)



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

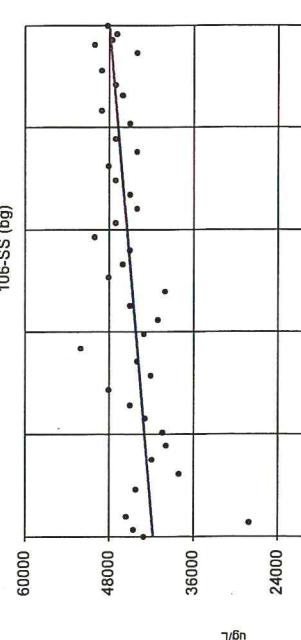
Sen's Slope Estimator

105-SS (bg)



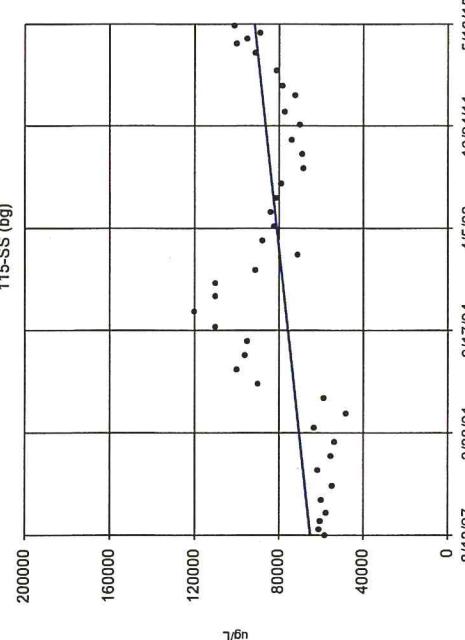
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



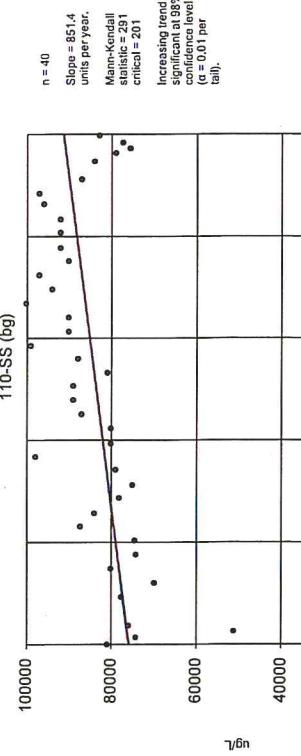
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



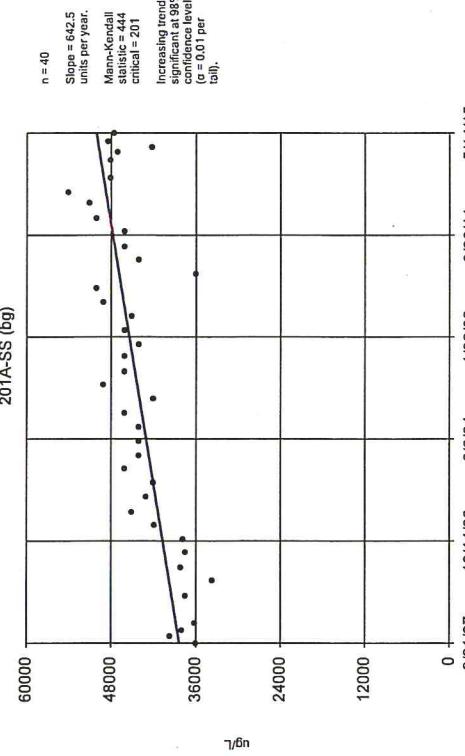
Constituent: Magnesium Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



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

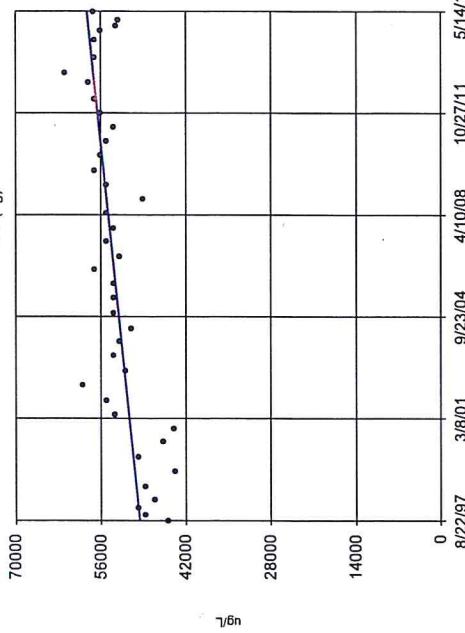
Sen's Slope Estimator



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

Sen's Slope Estimator

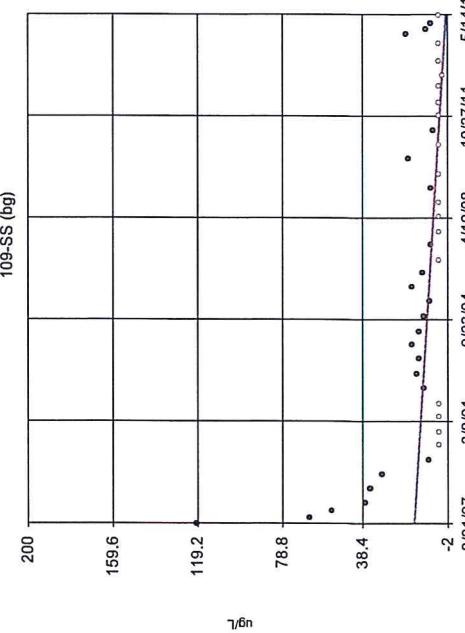
205-SS (bg)



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

Sen's Slope Estimator

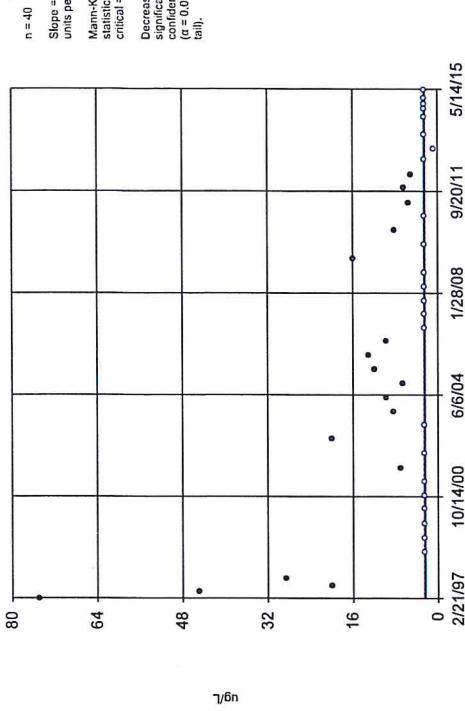
109-SS (bg)



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

Sen's Slope Estimator

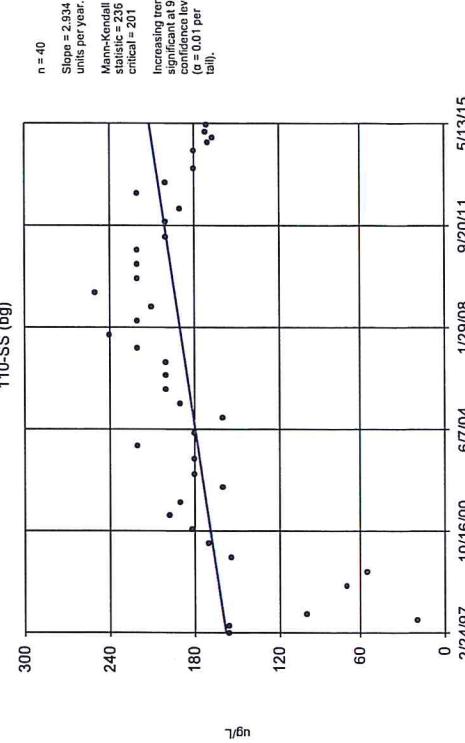
100-SS (bg)



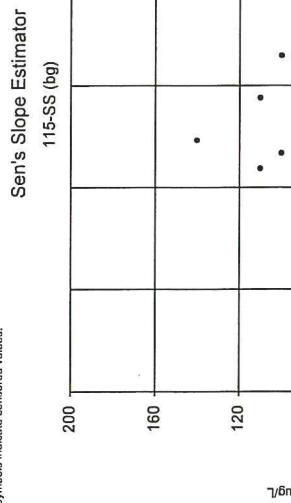
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

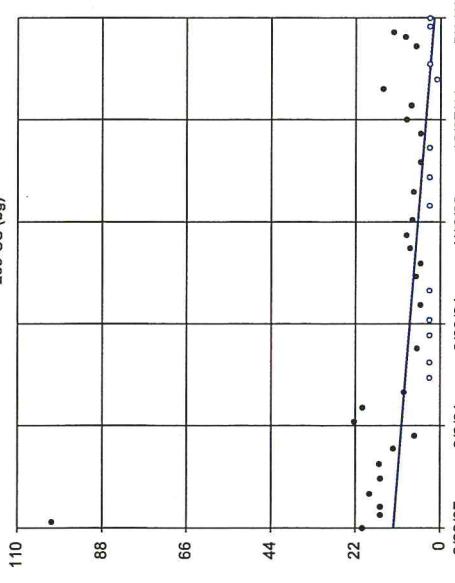
110-SS (bg)



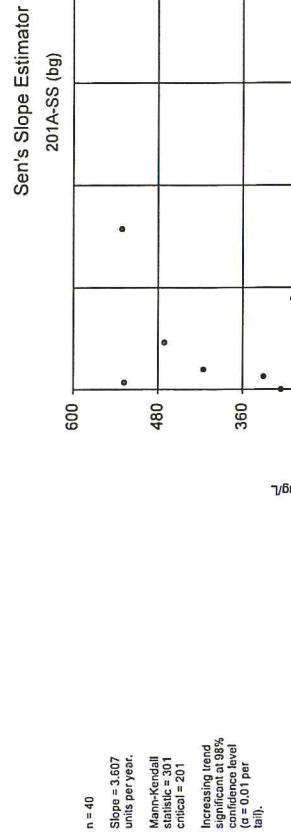
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



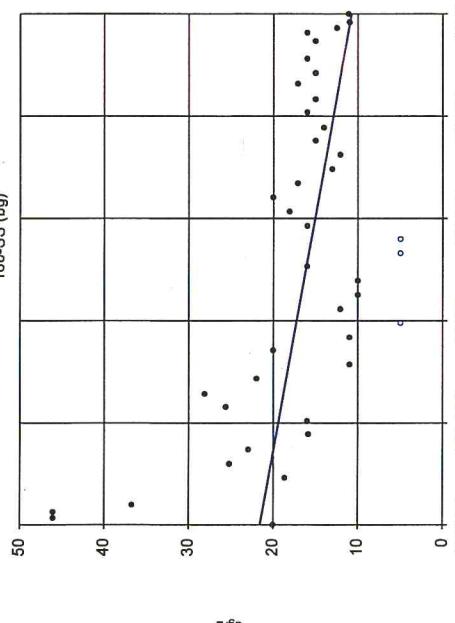
Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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

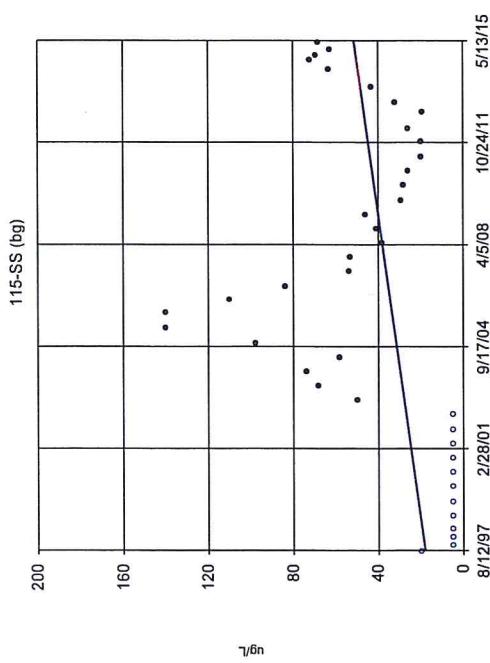


Constituent: Manganese Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



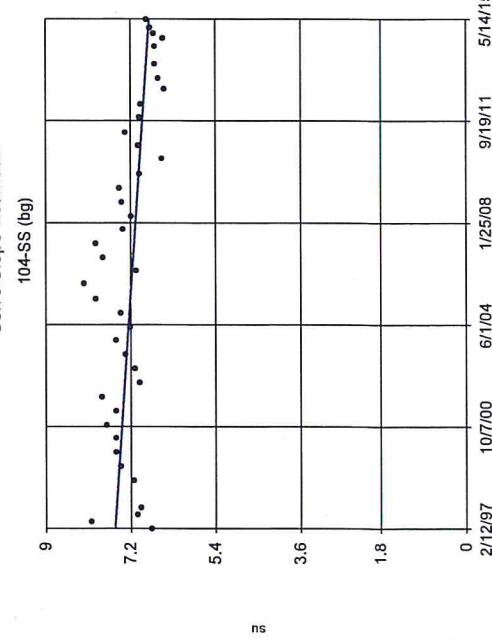
Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



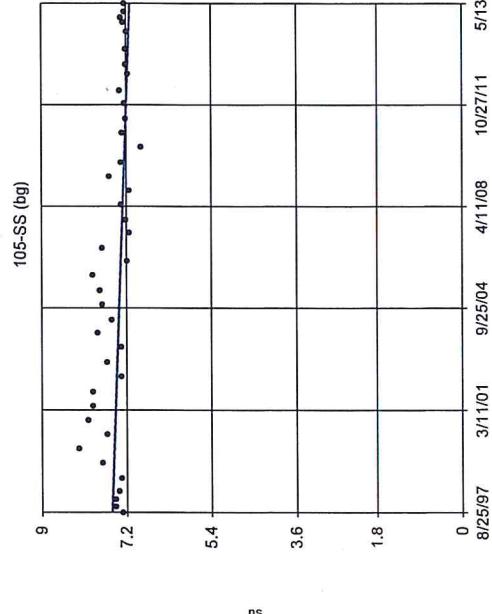
Constituent: Nickel Total Analysis Run 1/7/2016 1:05 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



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

Sen's Slope Estimator

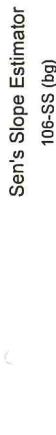


Constituent: Nitrate/Nitrite Analysis Run 1/7/2016 1:05 PM
Bridgeion LF Client: RSI Data: BRIDGETON

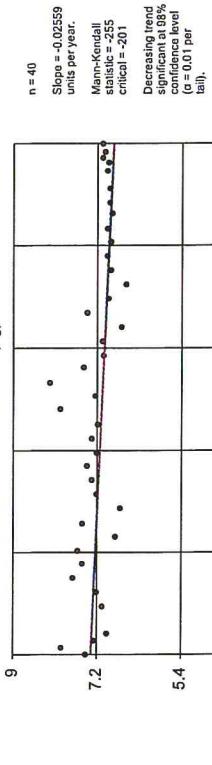
Sen's Slope Estimator



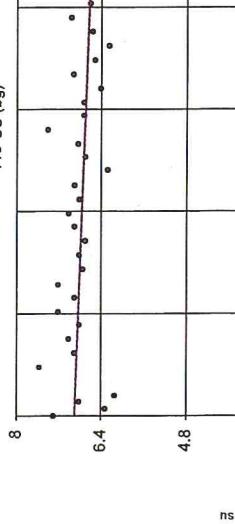
Constituent: 201A-SS Analysis Run 1/7/2016 1:05 PM
Bridgeion LF Client: RSI Data: BRIDGETON



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



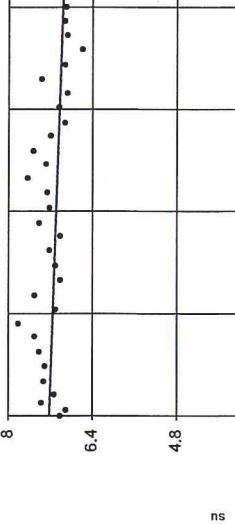
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



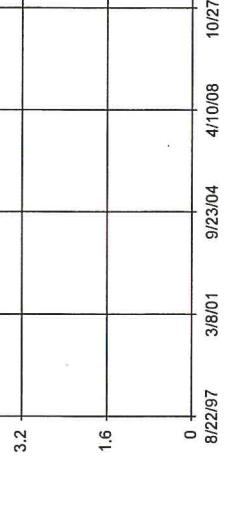
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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

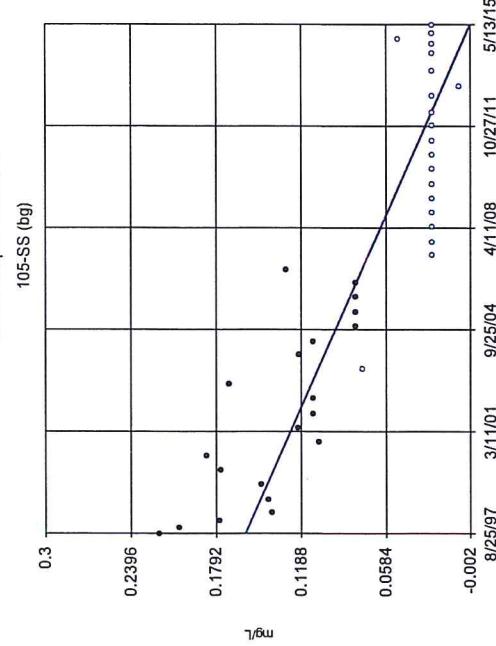


Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON



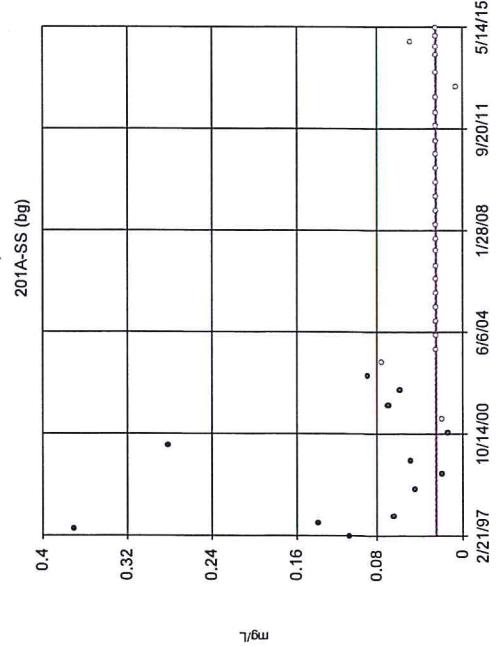
Constituent: pH [Field] Analysis Run 1/7/2016 1:05 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



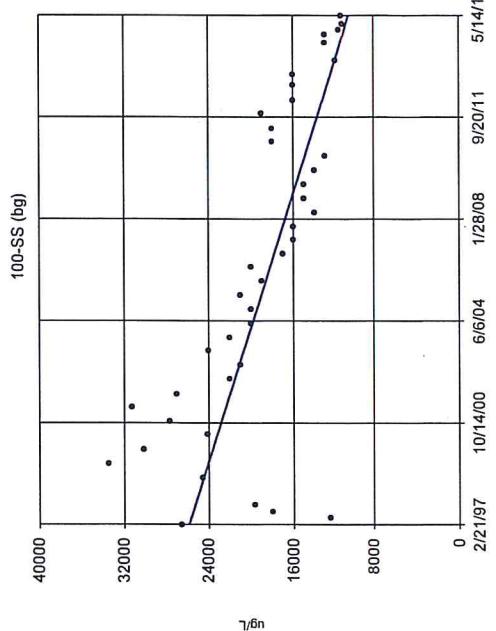
Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



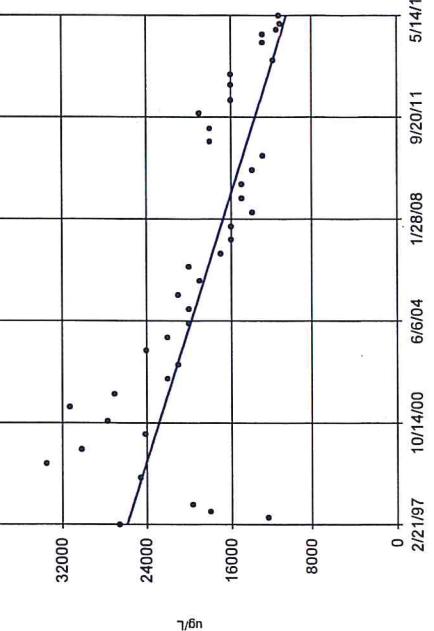
Constituent: Phosphorus Total Analysis Run 1/7/2016 1:05 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



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

Sen's Slope Estimator



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



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



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



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



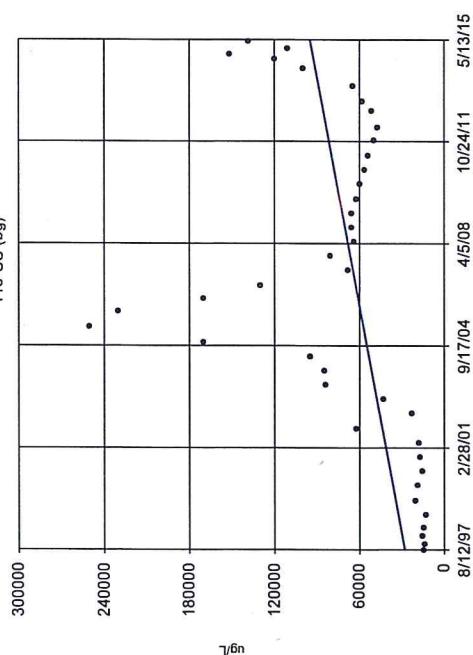
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON



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

Sen's Slope Estimator

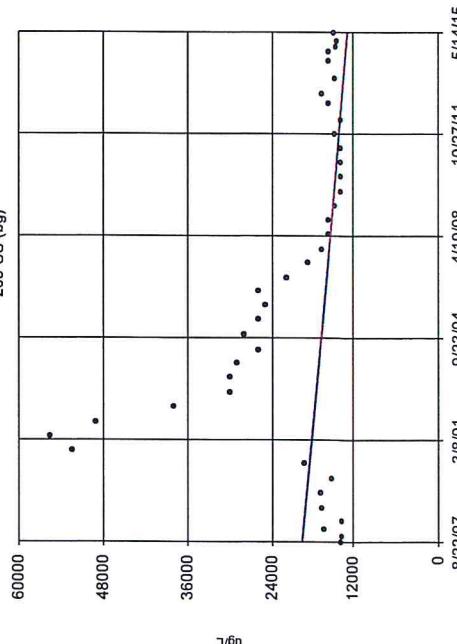
115-SS (bg)



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

Sen's Slope Estimator

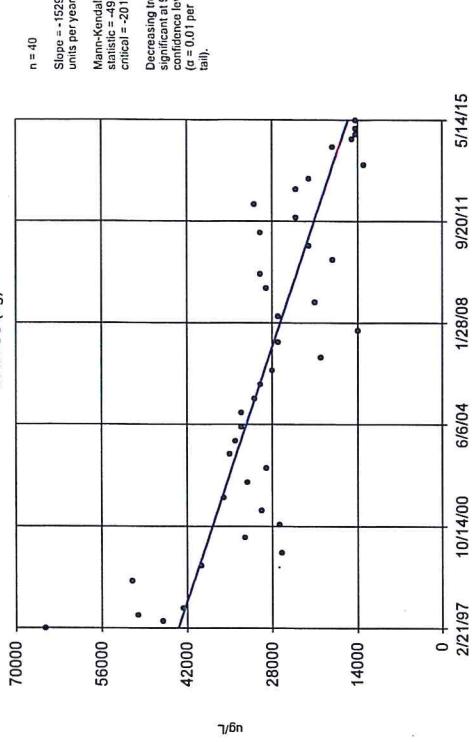
205-SS (bg)



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

Sen's Slope Estimator

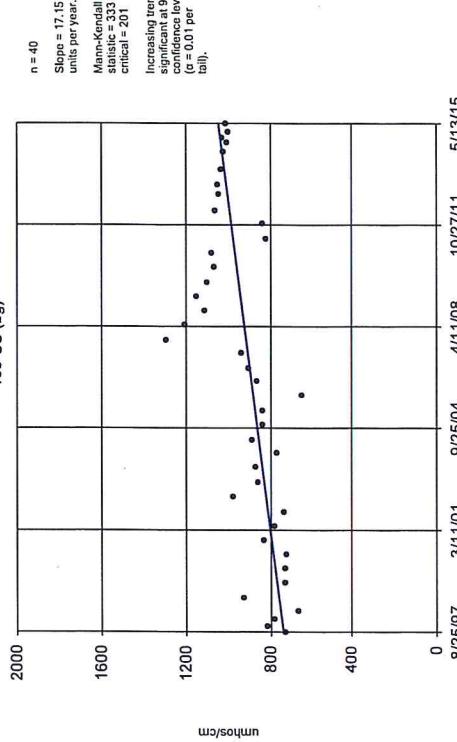
201A-SS (bg)



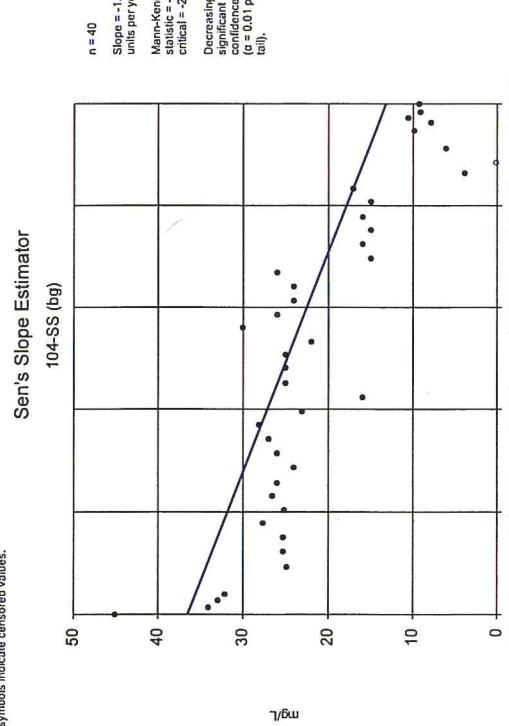
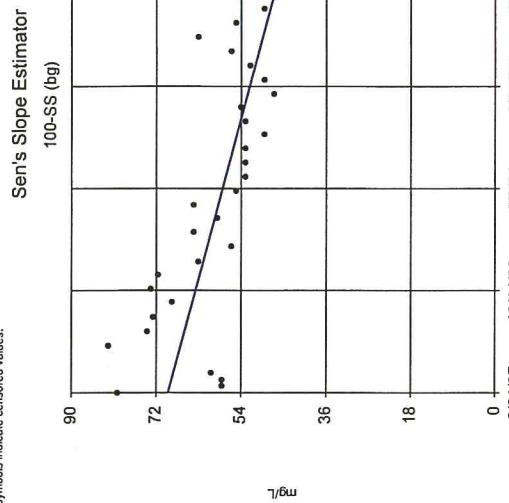
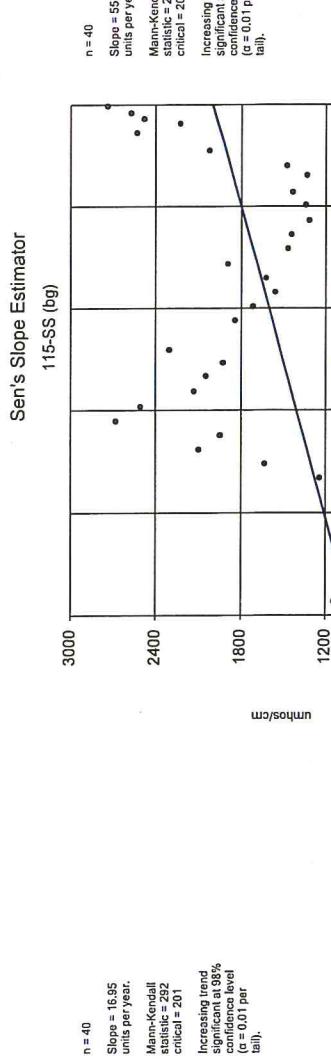
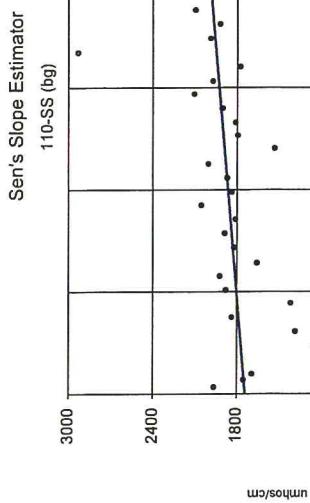
Constituent: Sodium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

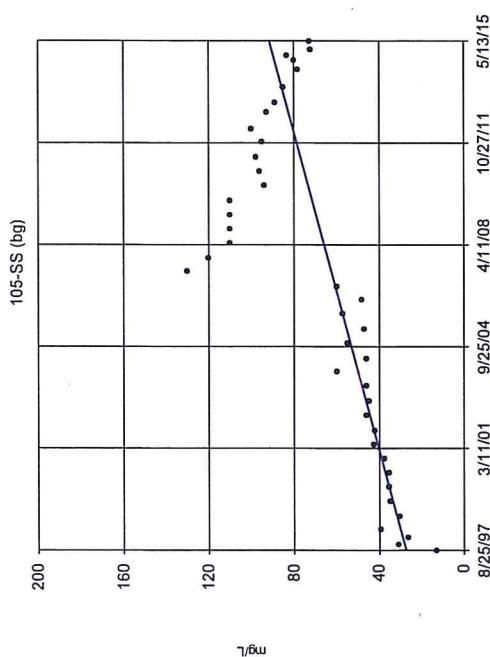
105-SS (bg)



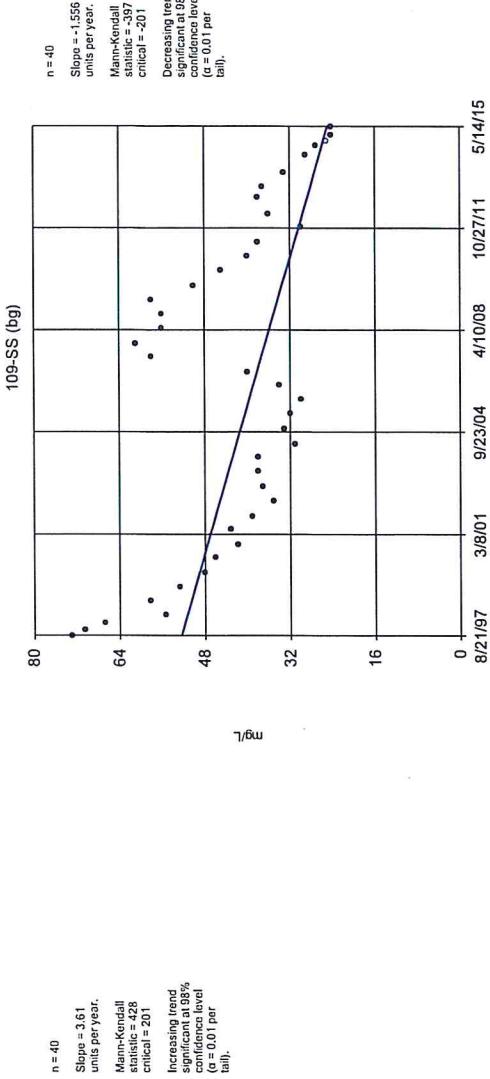
Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON



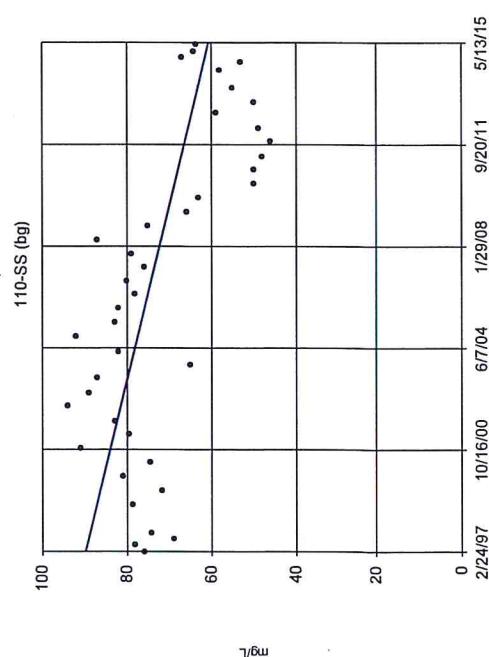
Sen's Slope Estimator



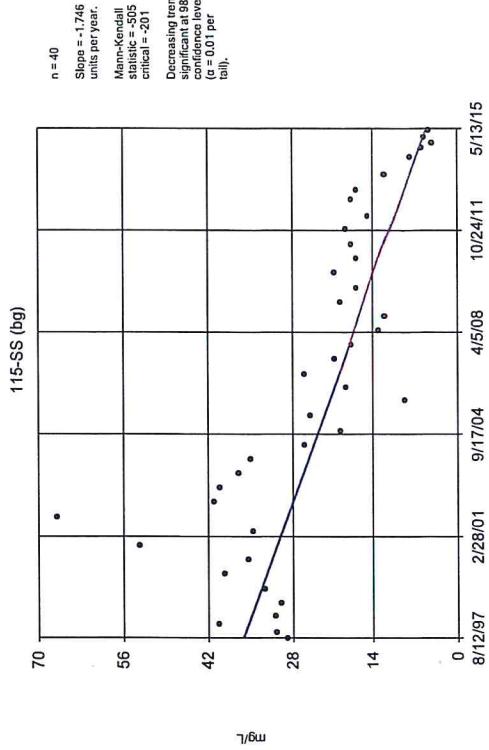
Sen's Slope Estimator



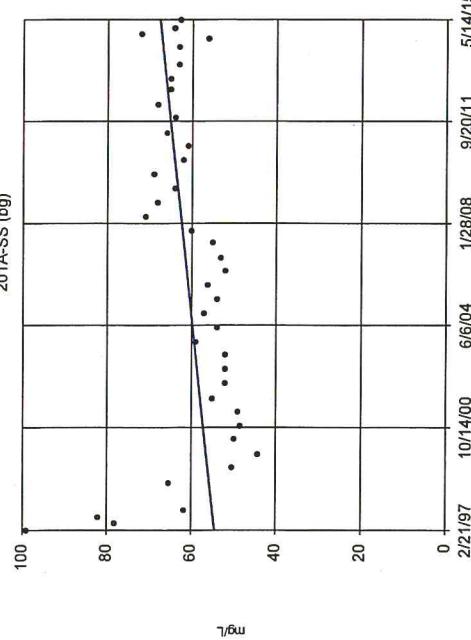
Sen's Slope Estimator



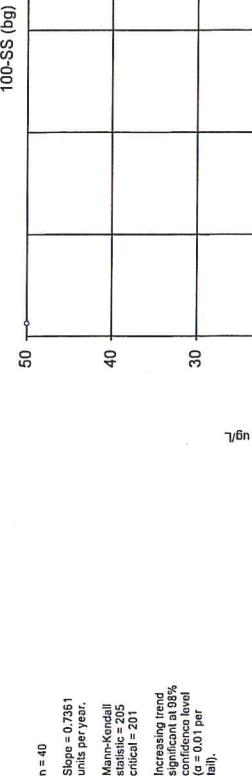
Sen's Slope Estimator



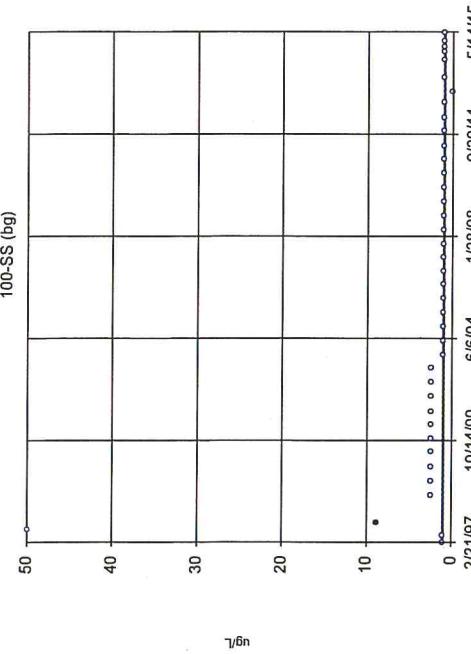
Sen's Slope Estimator



Sen's Slope Estimator



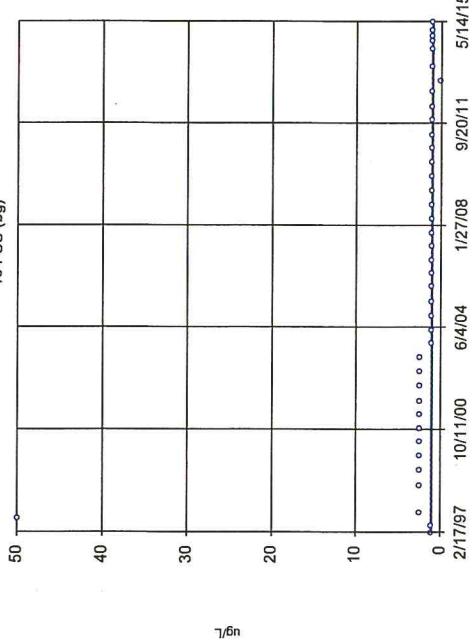
Sen's Slope Estimator



Sen's Slope Estimator

n = 40
Slope = 0 units per year.
Mann-Kendall statistic = -3.24 critical = -2.01
Decreasing trend significant at 99% confidence level (alpha = 0.01 per tail).

Sen's Slope Estimator



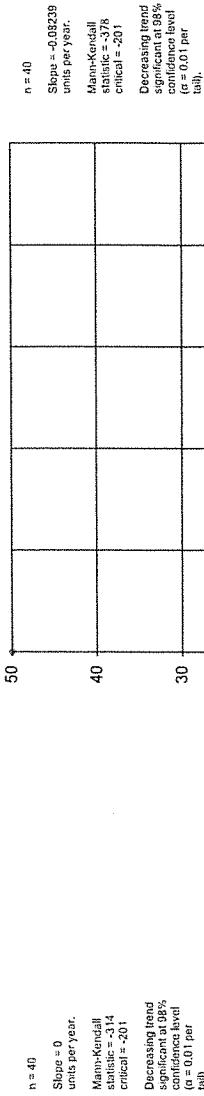
Sen's Slope Estimator

n = 40
Slope = -0.08868 units per year.
Mann-Kendall statistic = -3.90 critical = -3.30
Decreasing trend significant at 99% confidence level (alpha = 0.01 per tail).

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

Sen's Slope Estimator

106-SS (bg)

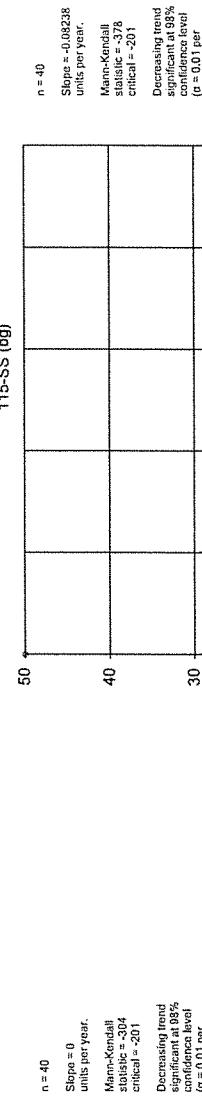


Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

110-SS (bg)

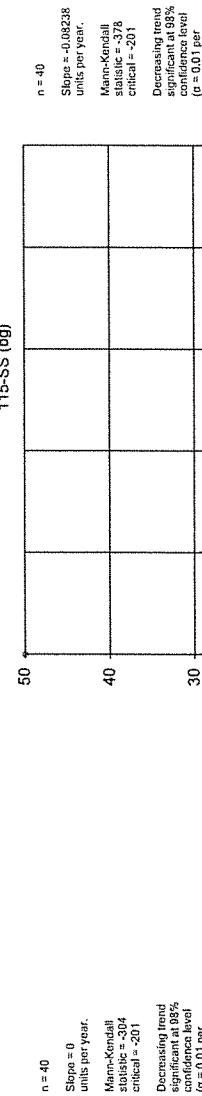


Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

115-SS (bg)

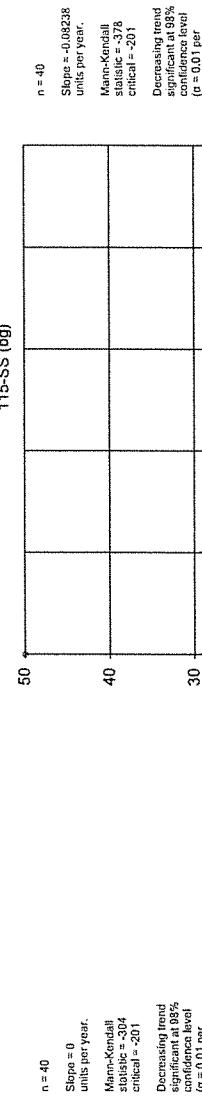


Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

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

Sen's Slope Estimator

109-SS (bg)

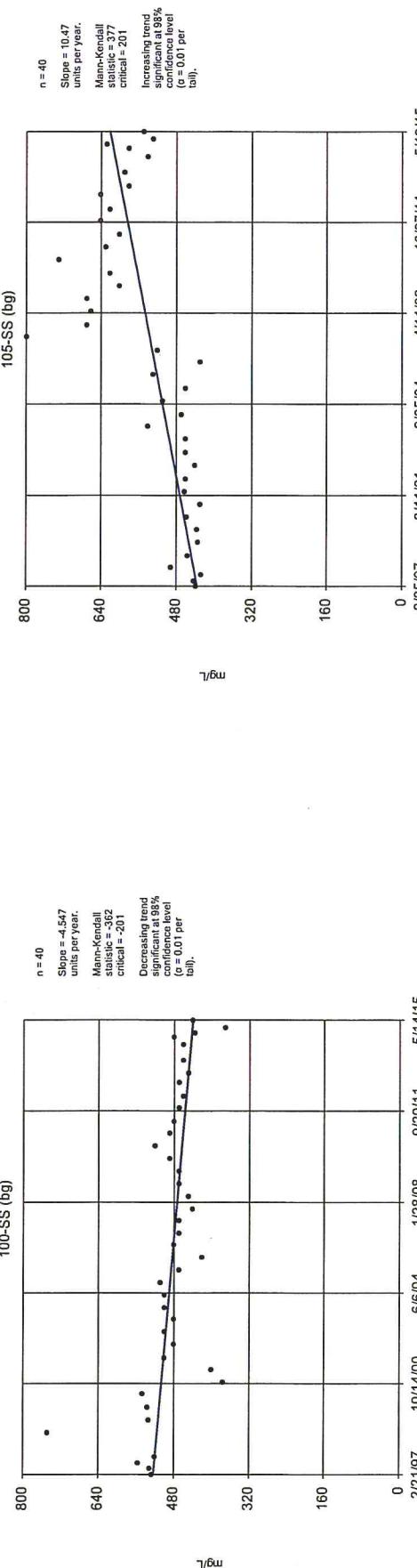


Sen's Slope Estimator 201A-SS (bg)



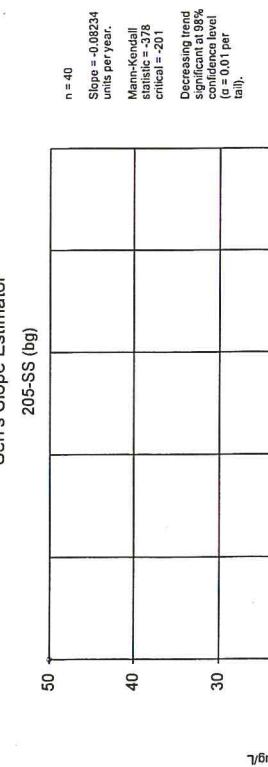
Constituent: Thallium Total Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator 100-SS (bg)



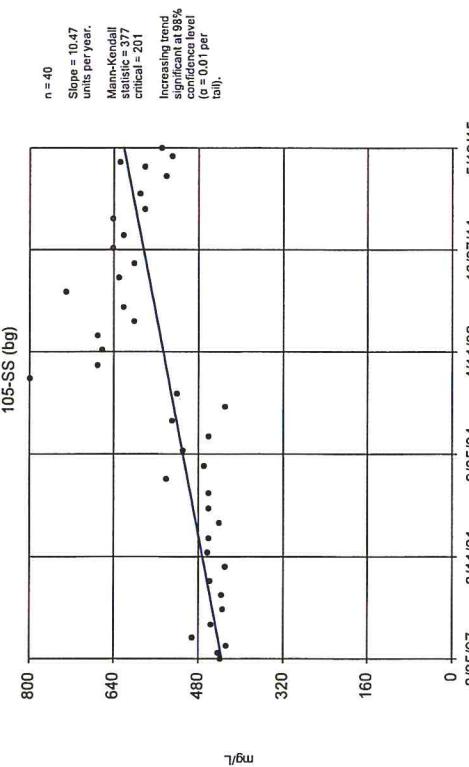
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:06 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator 205-SS (bg)



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

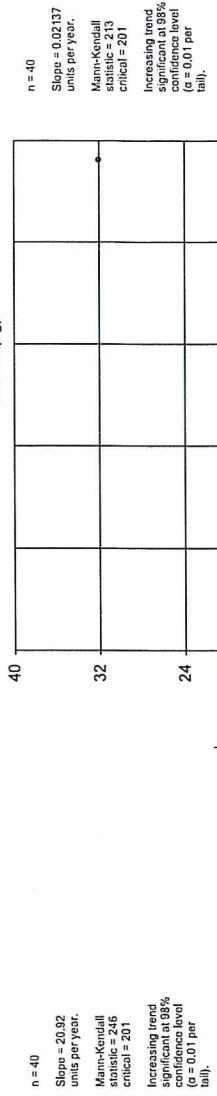
Sen's Slope Estimator 105-SS (bg)



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

Sen's Slope Estimator

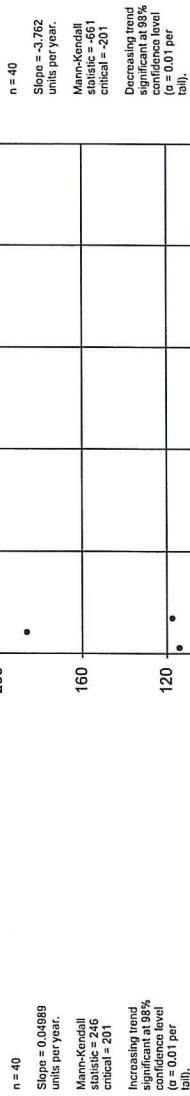
115-SS (bg)



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

Sen's Slope Estimator

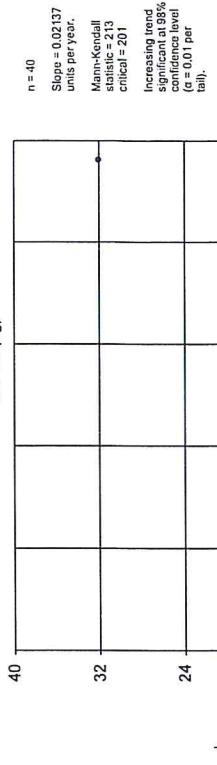
205-SS (bg)



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

Sen's Slope Estimator

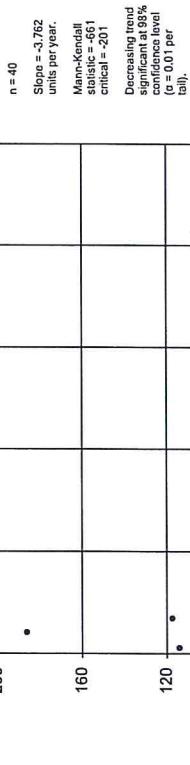
106-SS (bg)



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

Sen's Slope Estimator

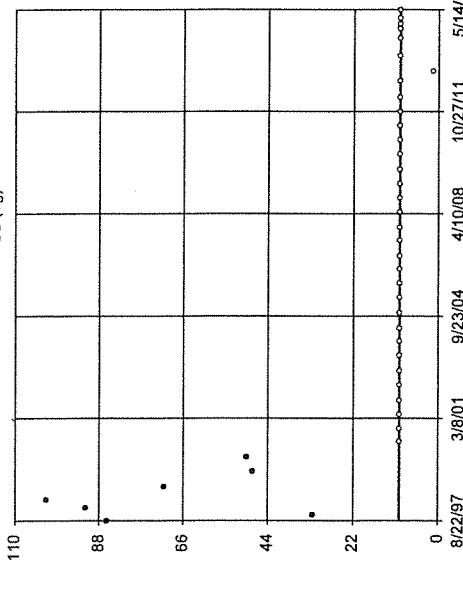
109-SS (bg)



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

Sen's Slope Estimator

205-SS (bg)



n = 40
Slope = 0
units per year.
Mann-Kendall
statistic = -34
critical = -20.1
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.01$ 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 SO₄ at PZ-105-SS (11/97 through 11/00)
- Sulfate at SO₄ 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

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observed	Sign.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha
Ammonia as N (mg/L)	100-SS	0.80	n/a	5/5/2017	0.05ND	No	40	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	104-SS	0.47	n/a	5/8/2017	34	Yes	40	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	108-SS	0.31	n/a	5/2/2017	0.05ND	No	40	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	105-SS	0.14	n/a	5/5/2017	0.05ND	No	40	n/a	85	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	106-SS	0.80	n/a	5/4/2017	0.19	No	40	n/a	67.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	115-SS	0.34	n/a	5/15/2017	1.3	Yes	40	n/a	67.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	201A-SS	0.32	n/a	5/5/2017	0.05ND	No	40	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Ammonia as N (mg/L)	205-SS	0.34	n/a	5/4/2017	0.05ND	No	40	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	100-SS	770	n/a	5/5/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	109-SS	1800	n/a	5/2/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	115-SS	5.0	n/a	5/15/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	201A-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Antimony Total (ug/L)	205-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	100-SS	3000	n/a	5/5/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	104-SS	11	n/a	5/8/2017	16.2	Yes	40	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	108-SS	5800	n/a	5/2/2017	2.5ND	No	40	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	105-SS	3.0	n/a	5/5/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	106-SS	11	n/a	5/4/2017	6.4	No	40	n/a	55	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	201A-SS	6.5	n/a	5/5/2017	2.5ND	No	40	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Arsenic Total (ug/L)	205-SS	5.2	n/a	5/4/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Barium Total (ug/L)	100-SS	80	n/a	5/5/2017	68.5	No	40	319853	76541	0	None	x^3	0.00009683 Param Intra 1 of 2
Barium Total (ug/L)	109-SS	76	n/a	5/2/2017	57.3	No	40	4156	605.3	0	None	x^2	0.00009683 Param Intra 1 of 2
Barium Total (ug/L)	108-SS	170	n/a	5/4/2017	181	Yes	39	5.223	0.1277	0	None	x^(1/3)	0.00009683 Param Intra 1 of 2
Barium Total (ug/L)	201A-SS	150	n/a	5/5/2017	125	No	39	111.8	14.77	0	None	No	0.00009683 Param Intra 1 of 2
Beryllium Total (ug/L)	100-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	104-SS	2.0	n/a	5/8/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	109-SS	2.0	n/a	5/2/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	105-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	106-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	115-SS	2.0	n/a	5/15/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	201A-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Beryllium Total (ug/L)	205-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	109-SS	330	n/a	5/2/2017	176	No	40	n/a	0	n/a	n/a	0.001152	NP Intra (Normality) 1 of 2
Boron Total (ug/L)	105-SS	100	n/a	5/5/2017	50ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	106-SS	100	n/a	5/4/2017	50ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Boron Total (ug/L)	201A-SS	100	n/a	5/5/2017	50ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	105-SS	2.5	n/a	5/4/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SS	2.5	n/a	5/6/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	104-SS	0.20	n/a	5/8/2017	0.1ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	109-SS	4.6	n/a	5/2/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	105-SS	2.5	n/a	5/5/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	106-SS	2.5	n/a	5/4/2017	0.1ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	115-SS	2.5	n/a	5/15/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	201A-SS	2.5	n/a	5/5/2017	0.1ND	No	40	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Cadmium Total (ug/L)	205-SS	5.8	n/a	5/4/2017	0.1ND	No	40	n/a	11.46	0.04697	0	In(X)	0.00009683 Param Intra 1 of 2
Calcium Total (ug/L)	100-SS	110000	n/a	5/5/2017	92300	No	39	1.0e9	1.0e9	0	None	x^2	0.00009683 Param Intra 1 of 2
Calcium Total (ug/L)	104-SS	97000	n/a	5/8/2017	97700	Yes	40	6.8e9	1.0e9	0	None	x^2	0.00009683 Param Intra 1 of 2

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Data: Bridgerton LF

Client: RSI

Bridgerton LF

Prediction Limit

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Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Bg.N	Sig.	Bg.Mean	Std. Dev.	%NDS	ND Adj.	Transform	Alpha	Method
Calcium Total (ug/L)	109-SS	96000	n/a	5/22/2017	89500	No	39	4.0629	1.4629	0	None	x^6	0.00009683	Param Intra 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	100-SS	21	n/a	5/5/2017	17.4	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	104-SS	96	n/a	5/8/2017	170	Yes	40	n/a	75	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	109-SS	18	n/a	5/2/2017	5ND	No	40	n/a	95	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	105-SS	42	n/a	5/5/2017	17.3	No	40	n/a	75	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	106-SS	66	n/a	5/4/2017	20.3	No	40	n/a	90	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	115-SS	180	n/a	5/15/2017	31.3	No	40	n/a	30	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	201A-SS	27	n/a	5/5/2017	5ND	No	40	n/a	95	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	205-SS	52	n/a	5/4/2017	5ND	No	40	n/a	90	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chloride (ng/L)	100-SS	12	n/a	5/5/2017	4.6	No	40	1.706	0.3034	0	None	In(X)	0.00009683	Param Intra 1 of 2
Chloride (ng/L)	109-SS	17	n/a	5/2/2017	3.7	No	40	n/a	0	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chloride (ng/L)	105-SS	75	n/a	5/4/2017	43.6	No	40	n/a	2.5	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Chromium Total (ug/L)	100-SS	21	n/a	5/5/2017	2.5ND	No	40	n/a	90	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	104-SS	6.6	n/a	5/8/2017	9.5	Yes	40	n/a	95	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	109-SS	14	n/a	5/2/2017	2.5ND	No	40	n/a	82.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	105-SS	6.4	n/a	5/5/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	106-SS	8.0	n/a	5/4/2017	2.5ND	No	40	n/a	90	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	115-SS	5.5	n/a	5/15/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	201A-SS	7.5	n/a	5/5/2017	2.5ND	No	40	n/a	92.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Chromium Total (ug/L)	205-SS	52	n/a	5/4/2017	2.5ND	No	40	n/a	85	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	100-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	109-SS	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	115-SS	62	n/a	5/15/2017	31.4	No	40	n/a	42.5	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Cobalt Total (ug/L)	201A-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	205-SS	10	n/a	5/4/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Cobalt Total (ug/L)	100-SS	20	n/a	5/5/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	109-SS	31	n/a	5/2/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	105-SS	10	n/a	5/4/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	108-SS	10	n/a	5/4/2017	2.5ND	No	40	n/a	95	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	115-SS	21	n/a	5/15/2017	2.5ND	No	40	n/a	82.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	201A-SS	10	n/a	5/5/2017	7	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	205-SS	46	n/a	5/4/2017	2.5ND	No	40	n/a	90	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Copper Total (ug/L)	100-SS	0.94	n/a	5/5/2017	0.62	No	25	0.3625	0.1685	0	None	x^3	0.00009683	Param Intra 1 of 2
Copper Total (ug/L)	104-SS	0.97	n/a	5/8/2017	0.92	No	24	0.4327	0.1674	0	None	x^3	0.00009683	Param Intra 1 of 2
Copper Total (ug/L)	105-SS	1.1	n/a	5/5/2017	0.54	No	26	0.6303	0.1403	0	None	In(X)	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	105-SS	2.4	n/a	5/4/2017	1.9	No	26	0.6576	0.08543	0	None	x^5	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	115-SS	2.7	n/a	5/15/2017	0.29	No	26	0.9509	0.1584	0	None	x^4	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	201A-SS	0.65	n/a	5/5/2017	0.42	No	25	0.4567	0.06897	0	None	x^3	0.00009683	Param Intra 1 of 2
Fluoride (mg/L)	205-SS	0.6	n/a	5/4/2017	0.45	No	25	-0.909	0.1421	0	None	In(X)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	100-SS	510	n/a	5/5/2017	441	No	39	2.0613	5.2812	0	None	In(X)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	104-SS	460	n/a	5/8/2017	490	Yes	39	2.7e10	7.1e9	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2
Hardness Total (mg/L)	108-SS	740	n/a	5/2/2017	436	No	40	n/a	0	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	2000	n/a		5/5/2017	25ND	No	40	n/a	25	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Iron Total (ug/L)	104-SS	8500	n/a	5/8/2017	9760	Yes	40	10.96	3.646	0	None	In(X)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	5200	n/a		5/2/2017	25ND	No	40	5.028	1.361	5	None	In(X)	0.00009683	Param Intra 1 of 2
Iron Total (ug/L)	12000	n/a		5/5/2017	2400	No	40	7.052	0.9184	0	None	In(X)	0.00009683	Param Intra 1 of 2

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 7/11/2017, 2:42 PM

Prediction Limit

		Bridgeton LF	Client: RSI	Data: Bridgeton LF	Printed 7/11/2017, 2:42 PM									
Constituent	Well	Lower Lim.	Upper Lim.	Date	Open/	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adi:	Transform	Alpha	Method	
Iron Total (ug/L)	201A-SS	5700	n/a	5/6/2017	59.4	No	40	5.9	1.058	0	None	ln(x)	0.00009663	
Iron Total (ug/L)	205-SS	5300	n/a	5/4/2017	275	No	40	6.53	0.7894	0	None	ln(x)	0.00009663	
Lead Total (ug/L)	100-SS	2700	n/a	5/5/2017	2.5ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	104-SS	25	n/a	5/6/2017	2.5ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	109-SS	3400	n/a	5/2/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	115-SS	5.0	n/a	5/15/2017	2.5ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	201A-SS	25	n/a	5/5/2017	2.5ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Lead Total (ug/L)	205-SS	89	n/a	5/4/2017	2.5ND	No	40	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Magnesium Total (ug/L)	100-SS	60000	n/a	5/5/2017	51100	No	40	1.5e14	2.5e13	0	None	x^3	0.00009683	
Magnesium Total (ug/L)	109-SS	57000	n/a	5/2/2017	51500	No	39	2.0e28	5.9e27	0	None	x^6	0.00009683	
Manganese Total (ug/L)	100-SS	75	n/a	5/5/2017	2.5ND	No	40	n/a	57.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Manganese Total (ug/L)	104-SS	100	n/a	5/8/2017	122	Yes	39	5.486	1.746	2.564	None	sqr(x)	0.00009683	
Manganese Total (ug/L)	109-SS	120	n/a	5/2/2017	2.5ND	No	40	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2	
Manganese Total (ug/L)	105-SS	67	n/a	5/5/2017	87.8	Yes	39	2.59	0.5683	2.564	None	x^(1/3)	0.00009683	
Manganese Total (ug/L)	106-SS	52	n/a	5/4/2017	16.6	No	38	4.249	1.13	2.632	None	sqr(x)	0.00009683	
Manganese Total (ug/L)	201A-SS	1100	n/a	5/5/2017	10.8	No	40	4.69	0.8837	0	None	ln(x)	0.00009683	
Manganese Total (ug/L)	205-SS	100	n/a	5/4/2017	2.5ND	No	40	n/a	30	n/a	n/a	0.001152	NP Intra (normality) 1 of 2	
Mercury Total (ug/L)	100-SS	0.20	n/a	5/5/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	104-SS	0.30	n/a	5/8/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	109-SS	0.20	n/a	5/2/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	105-SS	0.20	n/a	5/5/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	106-SS	0.20	n/a	5/4/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	115-SS	0.20	n/a	5/15/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	201A-SS	0.35	n/a	5/5/2017	0.1ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Mercury Total (ug/L)	205-SS	0.20	n/a	5/4/2017	0.1ND	No	40	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	100-SS	55	n/a	5/5/2017	10.6	No	40	2.743	4.491	10	None	ln(x)	0.00009683	
Nickel Total (ug/L)	104-SS	23	n/a	5/8/2017	48.5	Yes	40	n/a	9.1a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Nickel Total (ug/L)	109-SS	20	n/a	5/2/2017	5ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	105-SS	20	n/a	5/5/2017	5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	106-SS	20	n/a	5/4/2017	5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	205-SS	32	n/a	5/2/2017	5ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	100-SS	0.27	n/a	5/5/2017	0.05ND	No	40	n/a	75	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	104-SS	0.39	n/a	5/8/2017	0.05ND	No	40	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	109-SS	0.50	n/a	5/2/2017	0.05ND	No	40	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	105-SS	0.12	n/a	5/5/2017	0.05ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nickel Total (ug/L)	106-SS	0.54	n/a	5/4/2017	0.05ND	No	40	n/a	92.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nitrate/Nitrite (mg/L)	115-SS	5.0	n/a	5/15/2017	0.05ND	No	40	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nitrate/Nitrite (mg/L)	205-SS	0.15	n/a	5/4/2017	0.05ND	No	40	n/a	95	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2	
Nitrate/Nitrite (mg/L)	100-SS	8.0	6.6	5/5/2017	7	No	40	n/a	0	n/a	n/a	0.002305	NP Intra (normality) 1 of 2	
pH [Field] (su)	105-SS	8	6.5	5/2/2017	6.97	No	39	1.973	0.04155	0	None	ln(x)	0.00004842	
pH [Field] (su)	115-SS	7.6	6.1	5/15/2017	6.35	No	39	1.911	0.04272	0	None	ln(x)	0.00004842	
Phosphorus Total (mg/L)	100-SS	0.21	n/a	5/5/2017	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	
Phosphorus Total (mg/L)	104-SS	0.46	n/a	5/8/2017	0.13	No	40	n/a	n/a	60	n/a	n/a	0.001152	
Phosphorus Total (mg/L)	109-SS	0.25	n/a	5/2/2017	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	
Phosphorus Total (mg/L)	105-SS	0.22	n/a	5/5/2017	0.025ND	No	40	n/a	n/a	50	n/a	n/a	0.001152	
Phosphorus Total (mg/L)	106-SS	0.38	n/a	5/4/2017	0.025ND	No	40	n/a	n/a	72.5	n/a	n/a	0.001152	
Phosphorus Total (mg/L)	201A-SS	0.37	n/a	5/5/2017	0.025ND	No	40	n/a	n/a	70	n/a	n/a	0.001152	

Prediction Limit

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Constituent	Bridgeton LF	Client: RSI	Data: Bridgeton LF	Obsv.	Std.	Bg Mean	Std. Dev.	%NDS	ND Adj.
Well									
Phosphorous Total (mg/L)	205-SS	0.11	n/a	5/4/2017	0.025ND	No	40	n/a	70
Selenium Total (ug/L)	100-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Selenium Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100
Selenium Total (ug/L)	109-SS	39	n/a	5/2/2017	2.5ND	No	40	n/a	80
Selenium Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Selenium Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100
Selenium Total (ug/L)	115-SS	50	n/a	5/15/2017	2.5ND	No	40	n/a	97.5
Selenium Total (ug/L)	201A-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Selenium Total (ug/L)	205-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100
Silver Total (ug/L)	100-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Silver Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	39	n/a	100
Silver Total (ug/L)	108-SS	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	100
Silver Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Silver Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	38	n/a	100
Silver Total (ug/L)	115-SS	5.9	n/a	5/15/2017	2.5ND	No	40	n/a	97.5
Silver Total (ug/L)	201A-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Silver Total (ug/L)	205-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100
Sodium Total (ug/L)	100-SS	39000	n/a	5/5/2017	10500	No	40	9.808	0.295
Sodium Total (ug/L)	104-SS	27000	n/a	5/8/2017	132000	Yes	39	9.617	0.2257
Sodium Total (ug/L)	108-SS	49000	n/a	5/2/2017	9740	No	39	9.978	0.3165
Sodium Total (ug/L)	106-SS	20000	n/a	5/4/2017	30800	Yes	40	118.3	9.566
Sodium Total (ug/L)	201A-SS	65000	n/a	5/5/2017	11400	No	37	824	3.85
Sodium Total (ug/L)	205-SS	56000	n/a	5/4/2017	15700	No	40	n/a	0
Specific Conductance [Field] (umhos/cm)	100-SS	1000	n/a	5/5/2017	779	No	39	6.746	0.06655
Specific Conductance [Field] (umhos/cm)	104-SS	930	n/a	5/8/2017	812	No	39	4.683	0
Specific Conductance [Field] (umhos/cm)	108-SS	990	n/a	5/2/2017	769	No	39	1.388	0
Specific Conductance [Field] (umhos/cm)	106-SS	950	n/a	5/4/2017	987	Yes	39	4.6e11	1.3e11
Specific Conductance [Field] (umhos/cm)	201A-SS	970	n/a	5/5/2017	759	No	39	660296	108124
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	5/4/2017	887	No	40	n/a	0
Sulfate (mg/L)	100-SS	91	n/a	5/5/2017	34.9	No	40	4.009	0.1952
Sulfate (mg/L)	104-SS	45	n/a	5/8/2017	10.1	No	40	21.19	9.203
Sulfate (mg/L)	109-SS	89	n/a	5/2/2017	22.3	No	40	3.71	0.2988
Sulfate (mg/L)	106-SS	66	n/a	5/4/2017	46.1	No	40	3.901	0.1104
Sulfate (mg/L)	115-SS	70	n/a	5/15/2017	3.1	No	40	4.715	1.41
Sulfate (mg/L)	205-SS	73	n/a	5/4/2017	52.2	No	39	50.72	8.593
Sulfate (mg/L)	100-SS	50	n/a	5/5/2017	1ND	No	40	n/a	97.5
Sulfate (mg/L)	104-SS	2.0	n/a	5/8/2017	1ND	No	40	n/a	100
Sulfate (mg/L)	109-SS	2.0	n/a	5/2/2017	1ND	No	40	n/a	100
Sulfate (mg/L)	105-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100
Sulfate (mg/L)	106-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100
Thallium Total (ug/L)	115-SS	2.0	n/a	5/15/2017	1ND	No	40	n/a	100
Thallium Total (ug/L)	201A-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100
Thallium Total (ug/L)	205-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100
Thallium Total (ug/L)	100-SS	570	n/a	5/5/2017	426	No	39	1.168	2.8e7
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	5/8/2017	883	Yes	38	6.039	0.07516
Total Dissolved Solids [TDS] (mg/L)	109-SS	570	n/a	5/2/2017	444	No	40	6.134	0.07956
Total Dissolved Solids [TDS] (mg/L)	106-SS	530	n/a	5/4/2017	546	Yes	39	21.4	0.6626
Total Dissolved Solids [TDS] (mg/L)	201A-SS	560	n/a	5/5/2017	458	No	39	226671	33845
Total Dissolved Solids [TDS] (mg/L)	205-SS	580	n/a	5/4/2017	493	No	39	6.217	0.05445
Total Organic Carbon [TOC] (mg/L)	100-SS	31	n/a	5/5/2017	0.51ND	No	40	n/a	72.5

Constituent	Printed 7/11/2017, 2:42 PM		Client: RSI	Data: Bridgeton LF	Obsv.	Std.	Bg N	Bg Mean	Std. Dev.	%NDS	ND Adj.	Transform	Alpha	Method
Phosphorous Total (mg/L)	205-SS	0.11	n/a	5/4/2017	0.025ND	No	40	n/a	70	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	100-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	109-SS	39	n/a	5/2/2017	2.5ND	No	40	n/a	80	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	115-SS	50	n/a	5/15/2017	2.5ND	No	39	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	201A-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Selenium Total (ug/L)	205-SS	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Silver Total (ug/L)	100-SS	5.0	n/a	5/4/2017	2.5ND	No	38	n/a	100	n/a	n/a	n/a	0.001286	NP Intra (NDS) 1 of 2
Silver Total (ug/L)	104-SS	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Silver Total (ug/L)	108-SS	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Silver Total (ug/L)	105-SS	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Silver Total (ug/L)	106-SS	5.0	n/a	5/4/2017	2.5ND	No	38	n/a	100	n/a	n/a	n/a	0.001286	NP Intra (NDS) 1 of 2
Sodium Total (ug/L)	104-SS	27000	n/a	5/8/2017	132000	Yes	39	9.617	0.2257	0	None	n/a	0.0009683	Param Intra 1 of 2
Sodium Total (ug/L)	108-SS	49000	n/a	5/2/2017	9740	No	39	9.978	0.3165	0	None	n/a	0.0009683	Param Intra 1 of 2
Sodium Total (ug/L)	106-SS	20000	n/a	5/4/2017	30800	Yes	40	118.3	9.566	0	None	n/a	0.0009683	Param Intra 1 of 2
Sodium Total (ug/L)	201A-SS	65000	n/a	5/5/2017	11400	No	37	824	3.85	0	None	n/a	0.0009683	Param Intra 1 of 2
Sodium Total (ug/L)	205-SS	56000	n/a	5/4/2017	15700	No	40	n/a	0	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SS	1000	n/a	5/5/2017	779	No	39	6.746	0.06655	0	None	n/a	0.0009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SS	930	n/a	5/8/2017	812	No	39	4.683	0	None	n/a	n/a	0.0009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	108-SS	990	n/a	5/2/2017	769	No	39	1.388	0	None	n/a	n/a	0.0009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	106-SS	950	n/a	5/4/2017	987	Yes	39	4.6e11	1.3e11	0	None	n/a	0.0009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	201A-SS	970	n/a	5/5/2017	759	No	39	6.746	0.06655	0	None	n/a	0.0009683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	205-SS	1300	n/a	5/4/2017	887	No	40	n/a	0	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	100-SS	91	n/a	5/5/2017	34.9	No	40	4.009	0.1952	2.5	None	No	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	104-SS	45	n/a	5/8/2017	10.1	No	40	21.19	9.203	2.5	None	No	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	109-SS	89	n/a	5/2/2017	22.3	No	40	3.71	0.2988	2.5	None	No	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	106-SS	66	n/a	5/4/2017	46.1	No	40	3.901	0.1104	2.5	None	No	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	115-SS	70	n/a	5/15/2017	3.1	No	40	4.715	1.41	0	None	n/a	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	205-SS	73	n/a	5/4/2017	52.2	No	39	50.72	8.593	0	None	No	0.0009683	Param Intra 1 of 2
Sulfate (mg/L)	100-SS	50	n/a	5/5/2017	1ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Sulfate (mg/L)	104-SS	2.0	n/a	5/8/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Sulfate (mg/L)	109-SS	2.0	n/a	5/2/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Sulfate (mg/L)	105-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Sulfate (mg/L)	106-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Thallium Total (ug/L)	115-SS	2.0	n/a	5/15/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Thallium Total (ug/L)	201A-SS	2.0	n/a	5/5/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Thallium Total (ug/L)	205-SS	2.0	n/a	5/4/2017	1ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Thallium Total (ug/L)	100-SS	570	n/a	5/5/2017	426	No	39	1.168	2.8e7	0	None	n/a	x^3	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SS	510	n/a	5/8/2017	883	Yes	38	6.039	0.07516	0	None	n/a	0.0009683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	109-SS	570	n/a	5/2/2017	444	No	40	6.134	0.07956	0	None	n/a	0.0009683	Param Intra 1 of 2

Prediction Limit

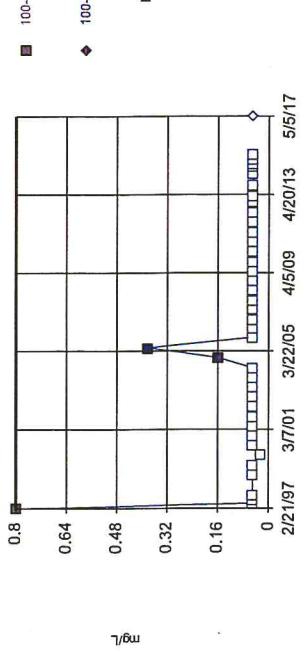
	Well	Lower Lim.	Upper Lim.	Date	Closed?	Sign.	Bg N	Bg Mean	Std. Dev.	%NDS	ND Adi.	Transform	Alpha	Method
Total Organic Carbon [TOC] (mg/L)	104-SS	28	n/a	5/8/2017	45.4	Yes	40	n/a	47.5	n/a	n/a	x'(1/3)	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	109-SS	31	n/a	5/2/2017	1	No	40	n/a	52.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Total Organic Carbon [TOC] (mg/L)	105-SS	29	n/a	5/5/2017	2.7	No	40	n/a	17.5	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	115-SS	55	n/a	5/15/2017	13.7	No	40	1.813	0.7701	22.5	Kaplan-Meier	n/a	0.0009683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	201A-SS	33	n/a	5/6/2017	0.5ND	No	40	n/a	50	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Vanadium Total (ug/L)	100-SS	10	n/a	5/5/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	104-SS	10	n/a	5/8/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	109-SS	10	n/a	5/2/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	105-SS	10	n/a	5/6/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	106-SS	10	n/a	5/4/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	115-SS	14	n/a	5/15/2017	5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	201A-SS	10	n/a	5/6/2017	5ND	No	40	n/a	100	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Vanadium Total (ug/L)	205-SS	110	n/a	5/4/2017	5ND	No	40	n/a	97.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	100-SS	230	n/a	5/5/2017	10ND	No	40	n/a	92.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	104-SS	220	n/a	5/8/2017	10ND	No	40	n/a	85	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	109-SS	190	n/a	5/2/2017	10ND	No	40	n/a	32.5	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Zinc Total (ug/L)	105-SS	43	n/a	5/5/2017	10ND	No	40	n/a	85	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	106-SS	40	n/a	5/4/2017	10ND	No	40	n/a	92.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	115-SS	68	n/a	5/15/2017	10ND	No	40	n/a	87.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	201A-SS	180	n/a	5/5/2017	27	No	40	n/a	85	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2
Zinc Total (ug/L)	205-SS	100	n/a	5/4/2017	10ND	No	40	n/a	82.5	n/a	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2

Bridgeton LF Client: RSI Data: Bridgeton LF Printed 7/11/2017, 2:42 PM

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Hollow symbols indicate censored values.
Within Limit

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Hollow symbols indicate censored values.
Exceeds Limit

Within Limit
Intrawell Non-parametric

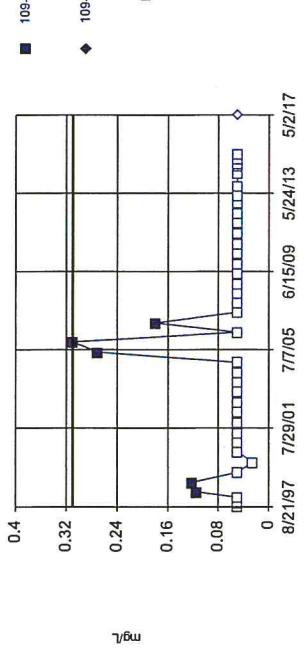


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

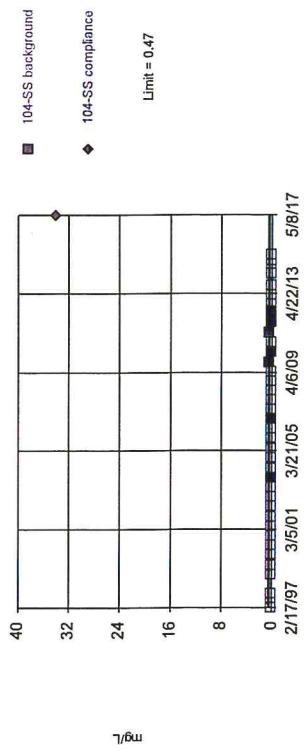
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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

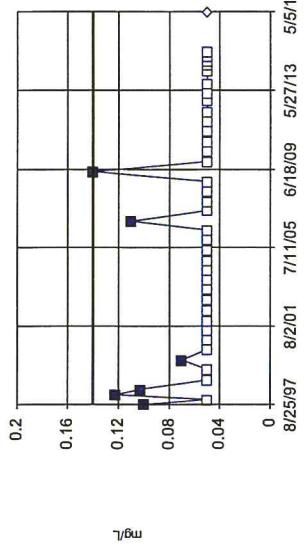
Prediction Limit
Intrawell Non-parametric



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.

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

Prediction Limit
Intrawell Non-parametric



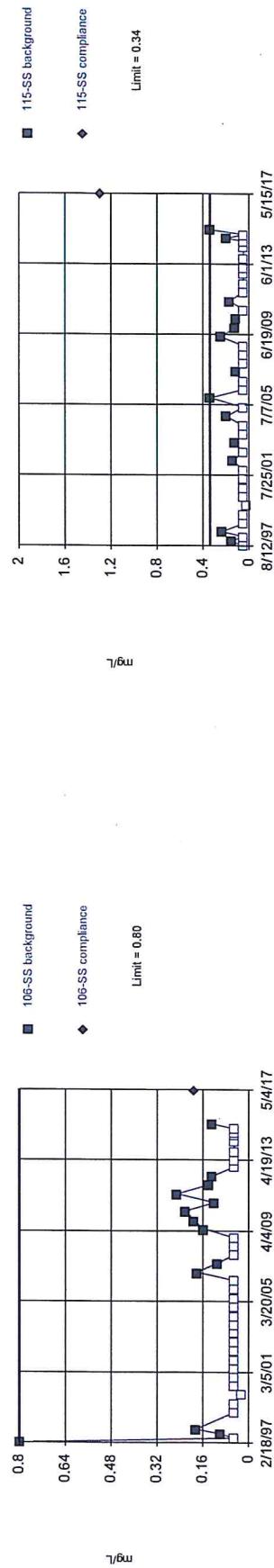
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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

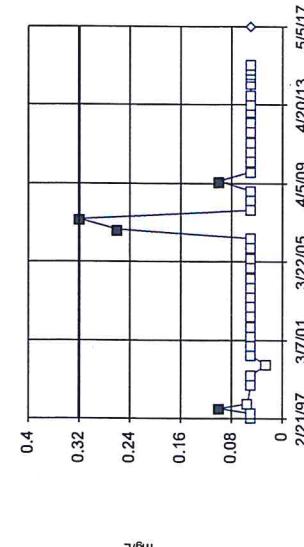
Santax™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



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

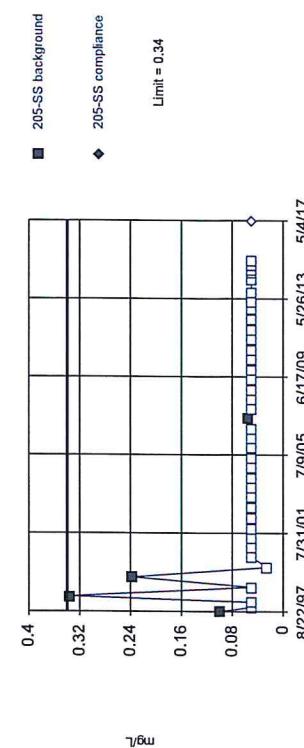
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Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



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

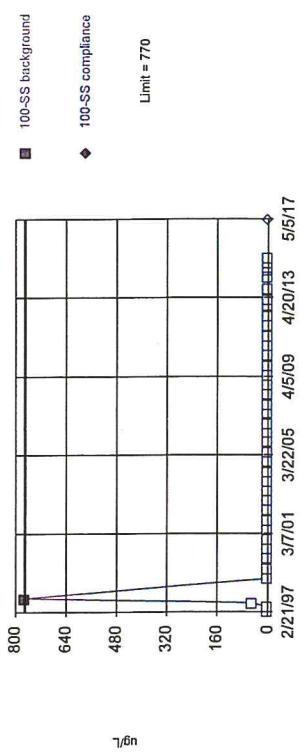
Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Ammonia as N Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

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Hollow symbols indicate censored values.
Within Limit

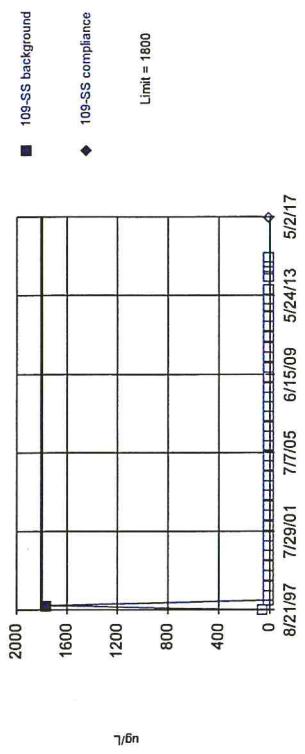
Prediction Limit
Intrawell Non-parametric



Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

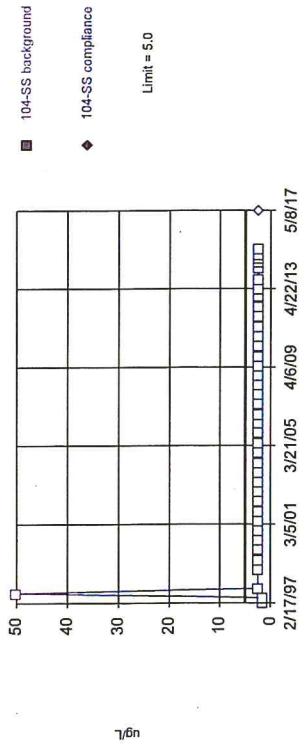
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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

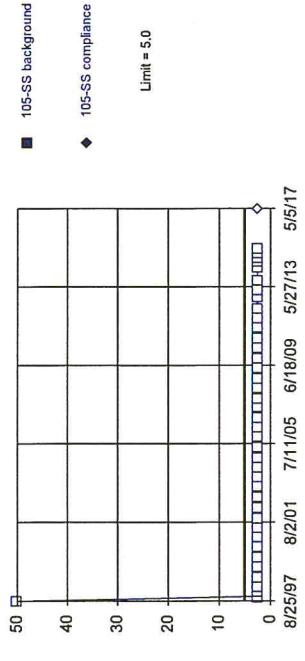
Prediction Limit
Intrawell Non-parametric



Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

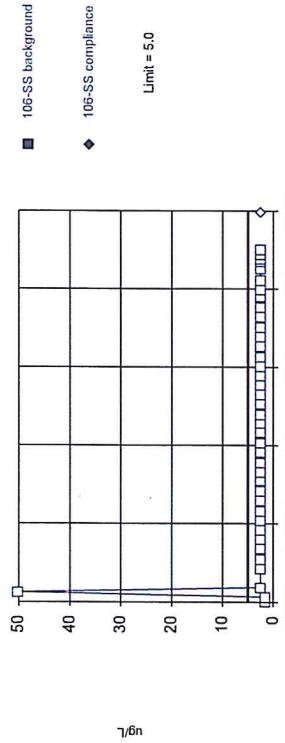
Prediction Limit
Intrawell Non-parametric



Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric

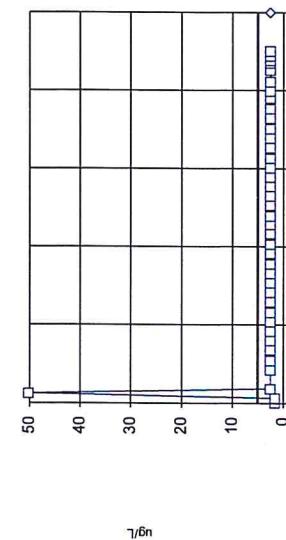


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

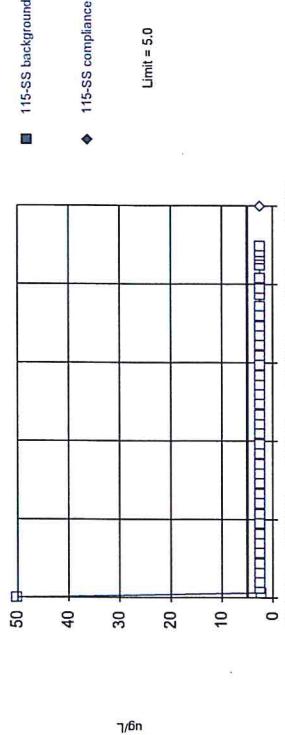
Prediction Limit
Intrawell Non-parametric



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

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

Prediction Limit
Intrawell Non-parametric

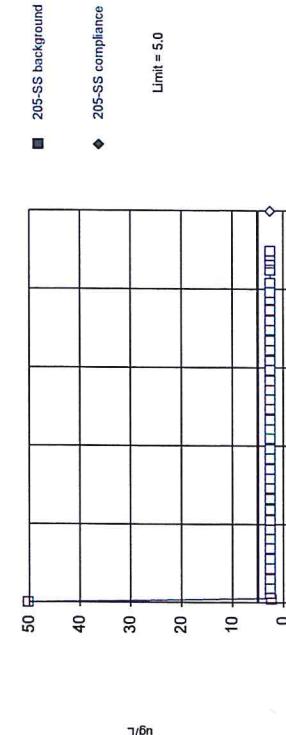


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric



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

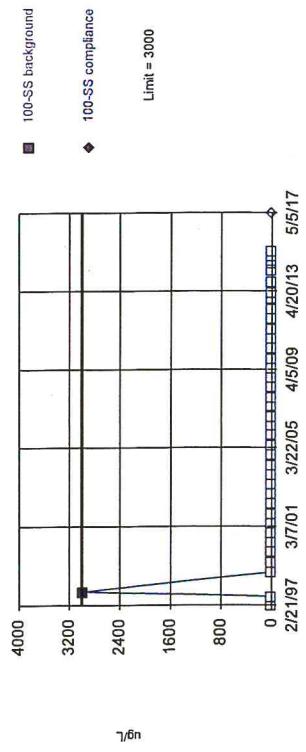
Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Antimony Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Intrawell Non-parametric



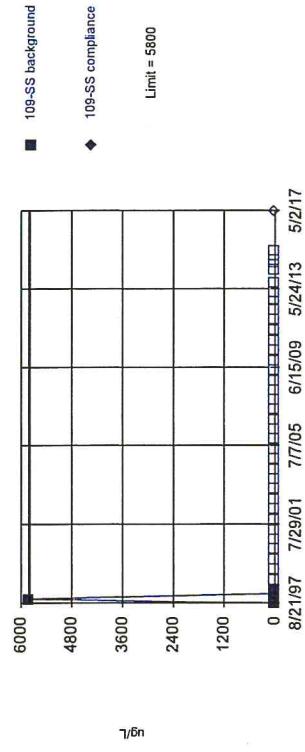
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

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

Intrawell Non-parametric



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

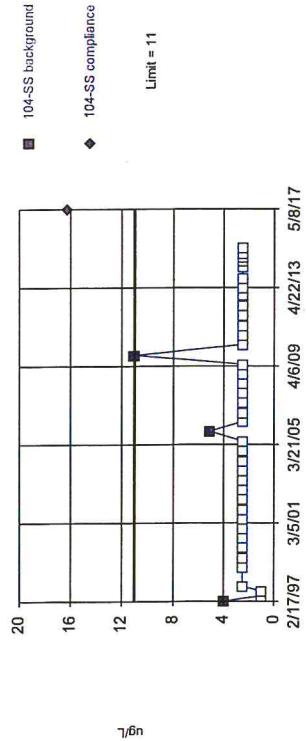
Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

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

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

Intrawell Non-parametric



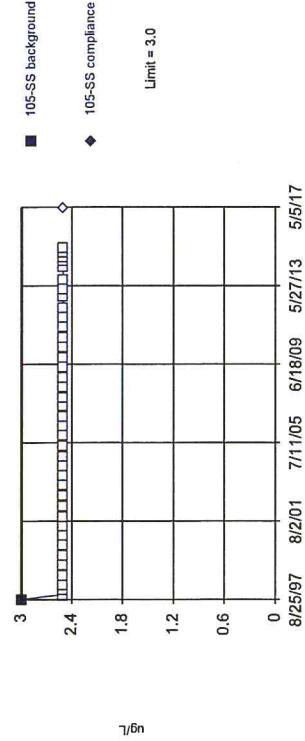
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

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

Intrawell Non-parametric



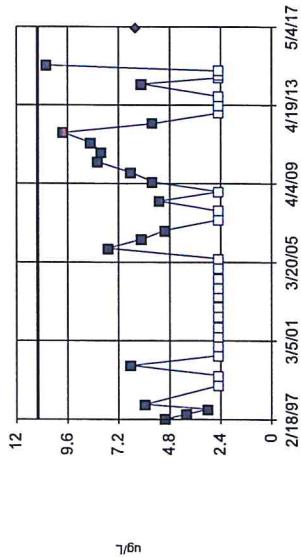
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit Intrawell Non-parametric

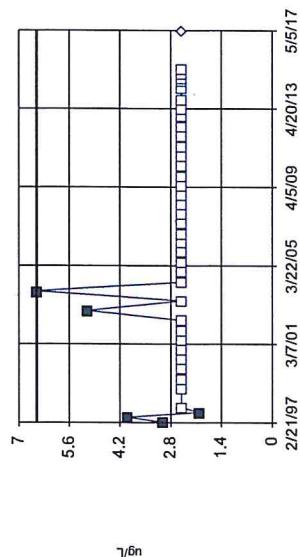


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Non-parametric

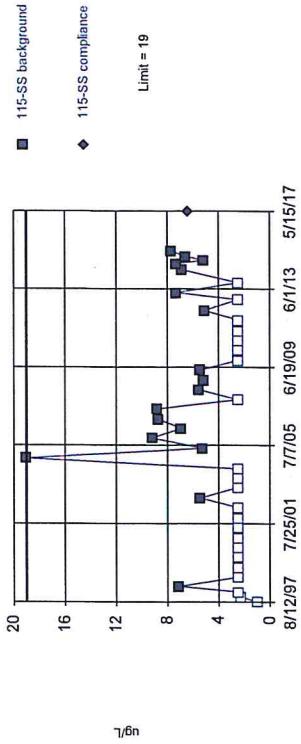


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Non-parametric

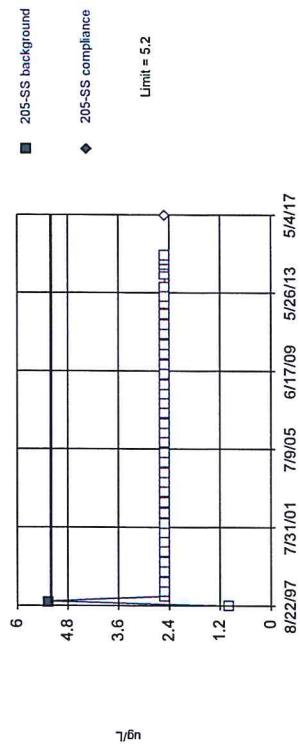


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 55% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Date: Bridgeton LF

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

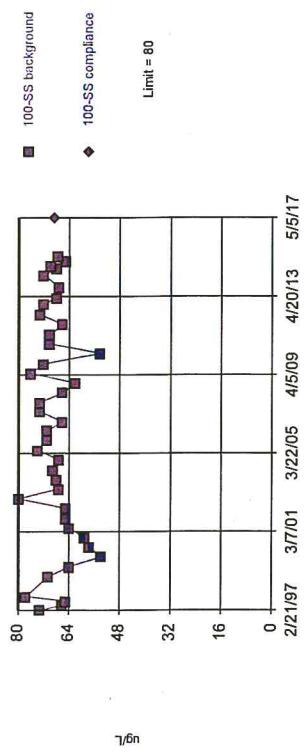
Prediction Limit Intrawell Non-parametric



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

Constituent: Arsenic Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Date: Bridgeton LF

Within Limit Prediction Limit
Intrawell Parametric

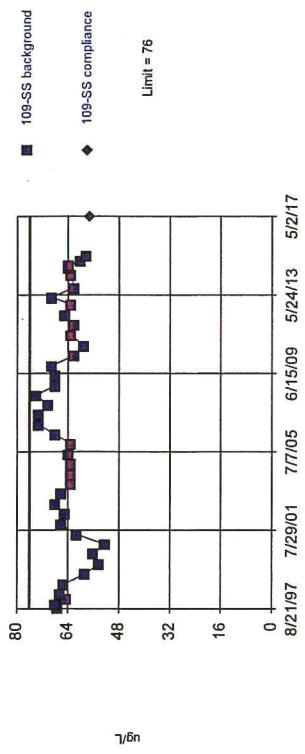


Background Data Summary (based on cube transformation): Mean=319653, Std Dev =75641, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9781, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Within Limit

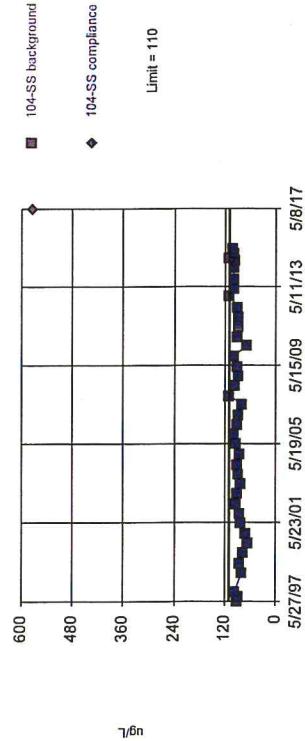
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4156, Std Dev =-6053, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9757, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit Prediction Limit
Intrawell Parametric

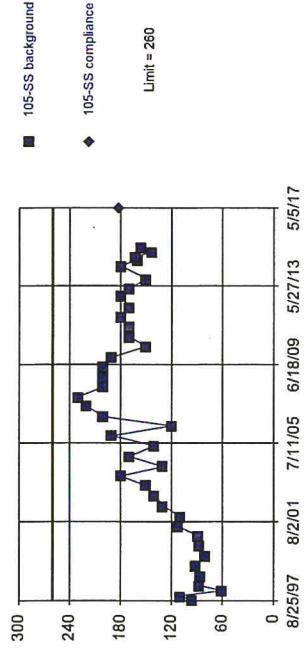


Background Data Summary (based on square transformation): Mean=3286, Std Dev =-1849, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9676, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Within Limit

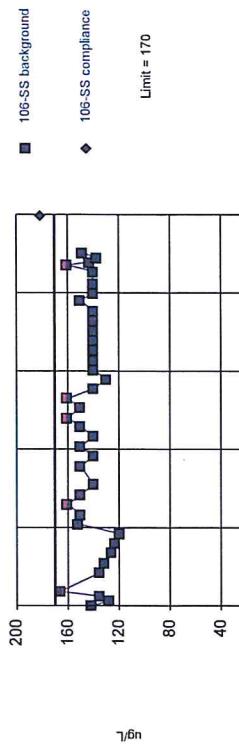
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1485, Std. Dev.=42.94, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

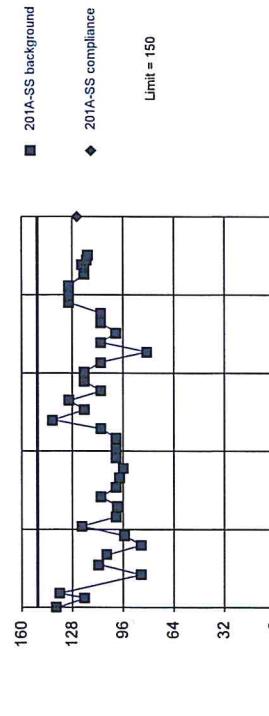
Exceeds Limit
Prediction Limit:
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=5.223, Std. Dev.=0.1277, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9455, critical = 0.917, Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026), Report alpha = 0.0009683, Rosner's outlier test was performed on the background data. One background outlier was removed: 78 (1/12/2003).

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

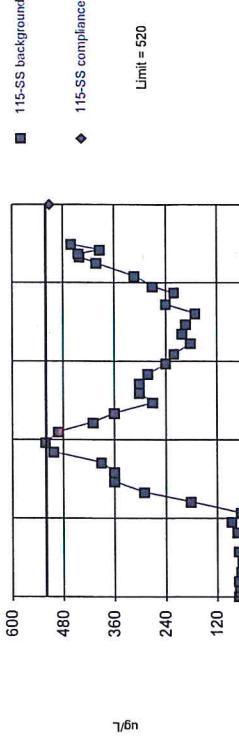
Within Limit
Prediction Limit:
Intrawell Parametric



Background Data Summary: Mean=111.8, Std. Dev.=14.77, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9618, critical = 0.917, Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026), Report alpha = 0.0009683, Rosner's outlier test was performed on the background data. One background outlier was removed: 206 (5/27/1997).

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

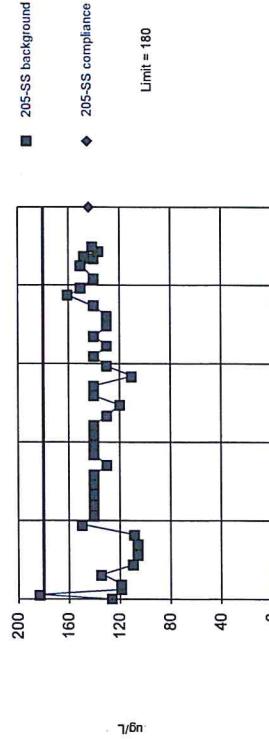
Within Limit
Prediction Limit:
Intrawell Non-parametric



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 40 background values. Well-constituent pair annual alpha = 0.04602, Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit:
Intrawell Non-parametric

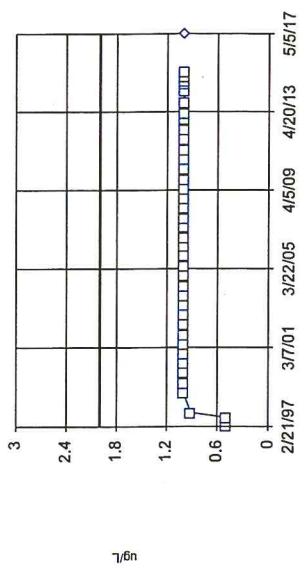


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.04602, Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



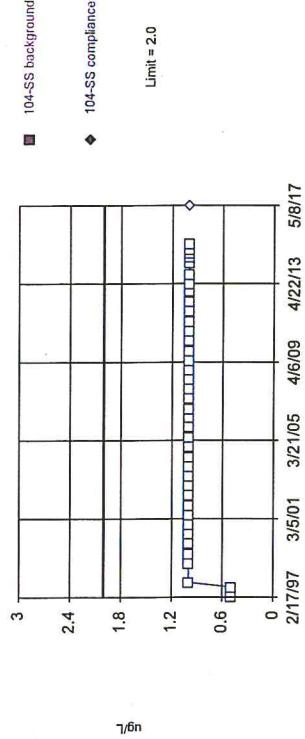
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

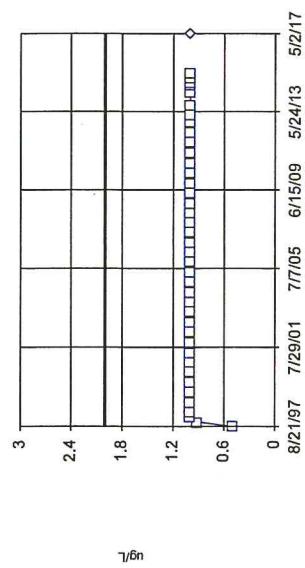


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



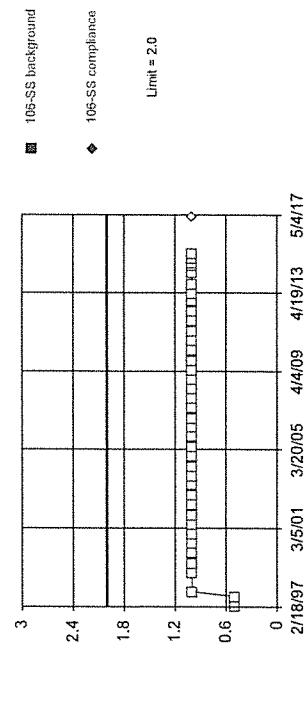
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara 5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Prediction Limit
Within Limit
Intrawell Non-parametric

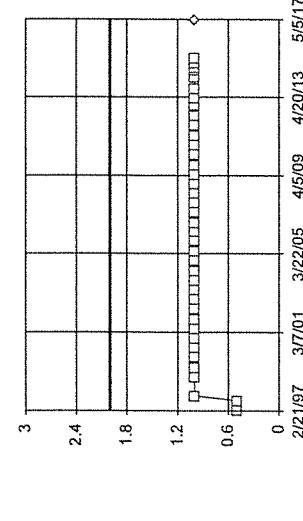


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara 5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

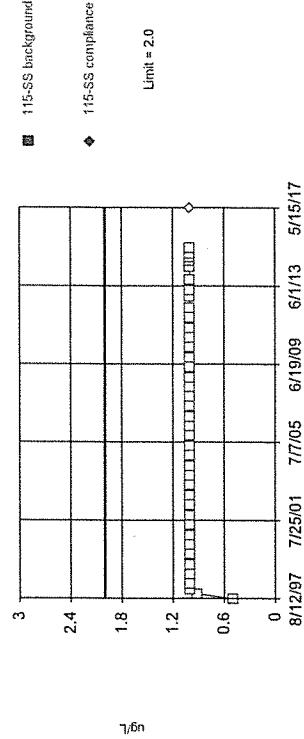
Prediction Limit
Within Limit
Intrawell Non-parametric



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

Santabarbara 5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Within Limit
Intrawell Non-parametric

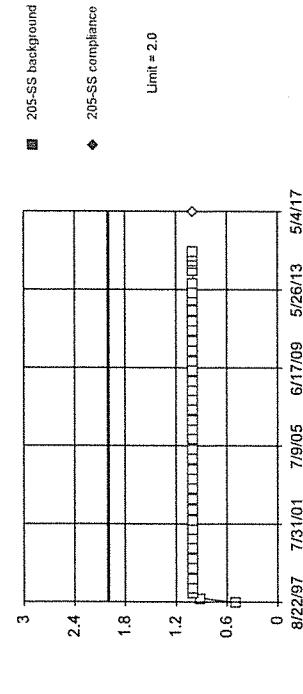


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara 5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Within Limit
Intrawell Non-parametric



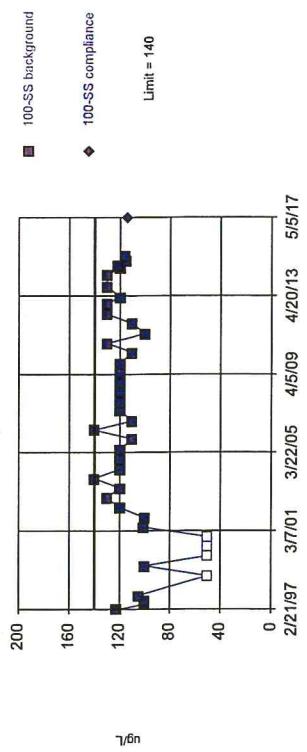
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Beryllium Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

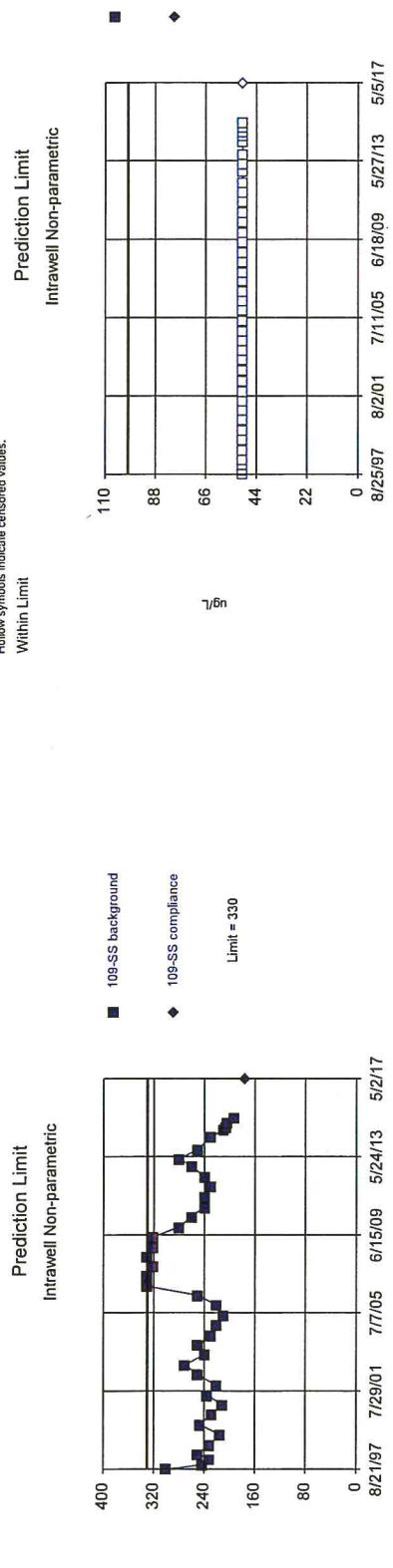
Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit



Background Data Summary (based on x^4 transformation): Mean=1.868, Std. Dev.=9.267, n=40, 10% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9305, critical = 0.919, Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jeff Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602, individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

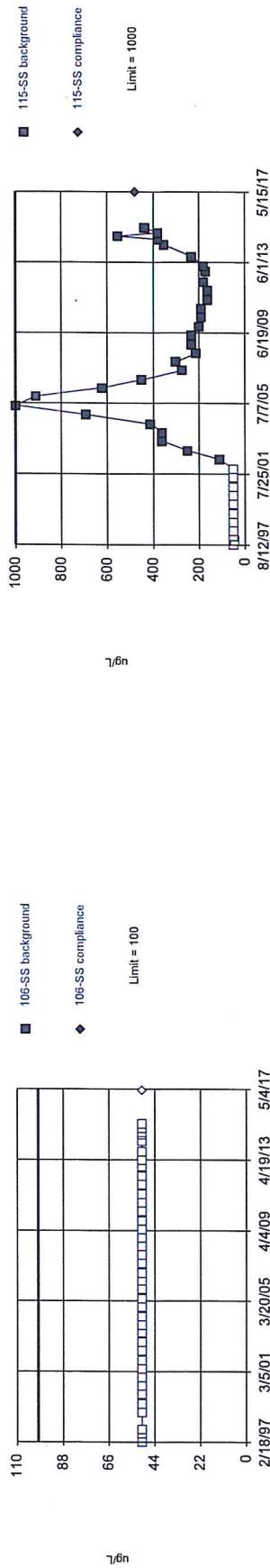
Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

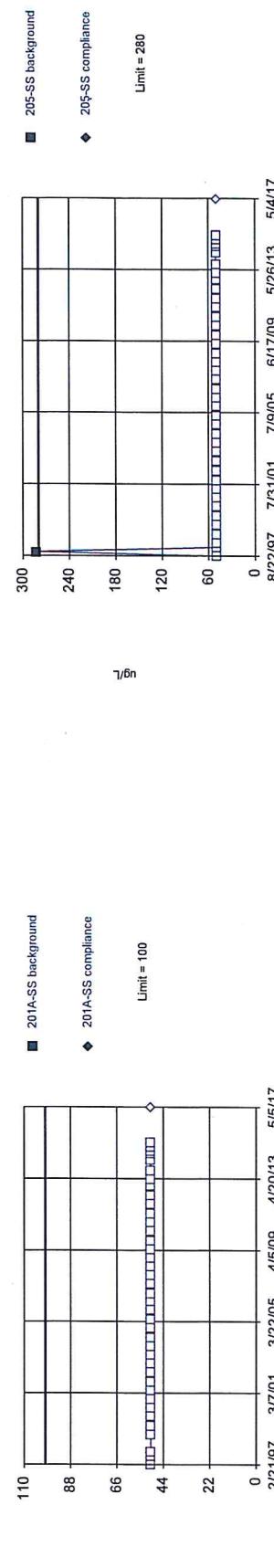


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602, Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

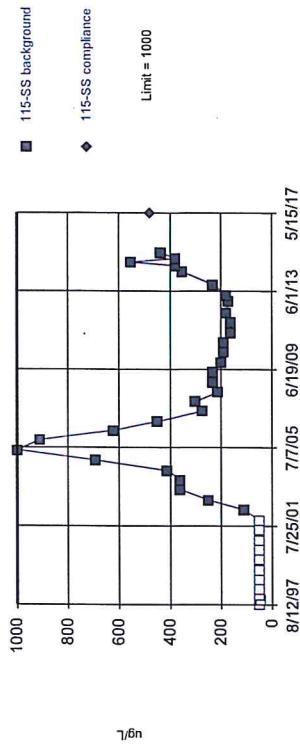
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

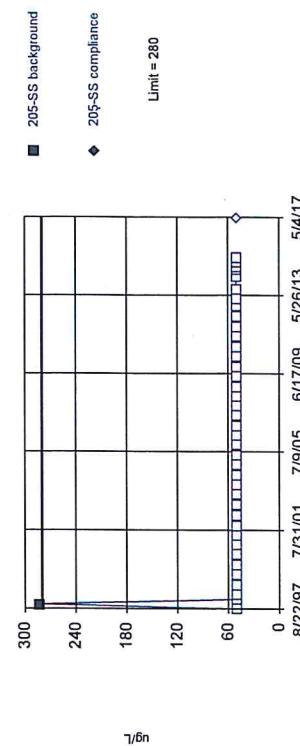


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values, 27.5% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

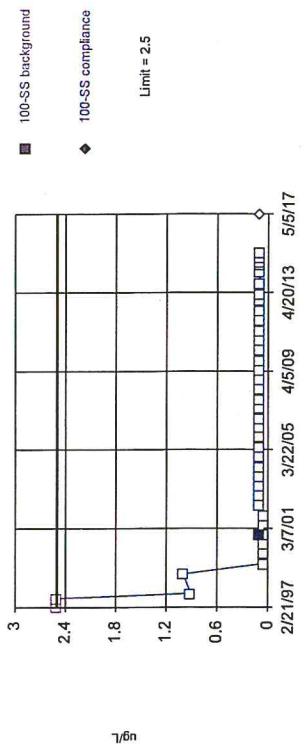


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 97.5% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

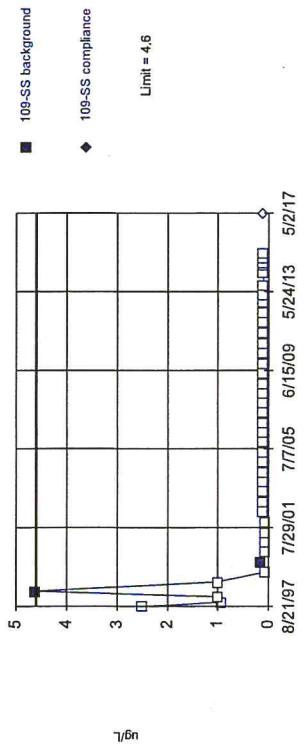
Constituent: Boron Total Analysis Run 7/11/2017 2:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric



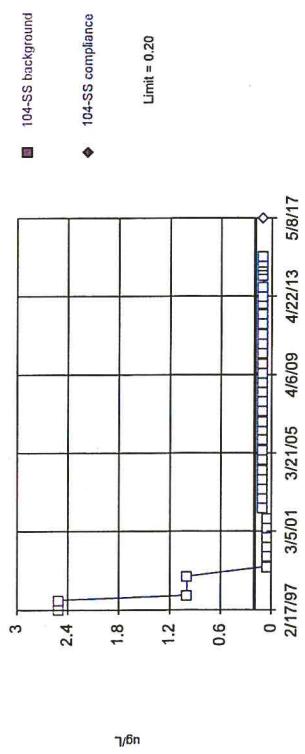
Constituent: Cadmium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric



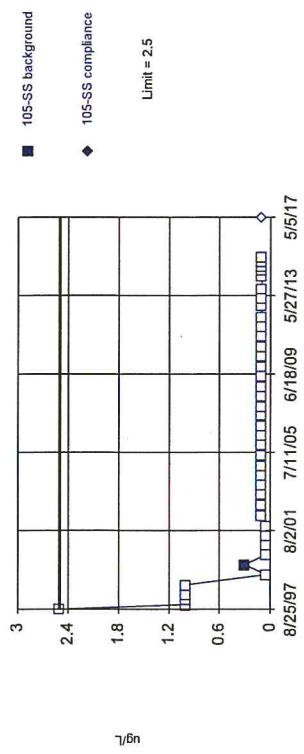
Constituent: Cadmium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric



Constituent: Cadmium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

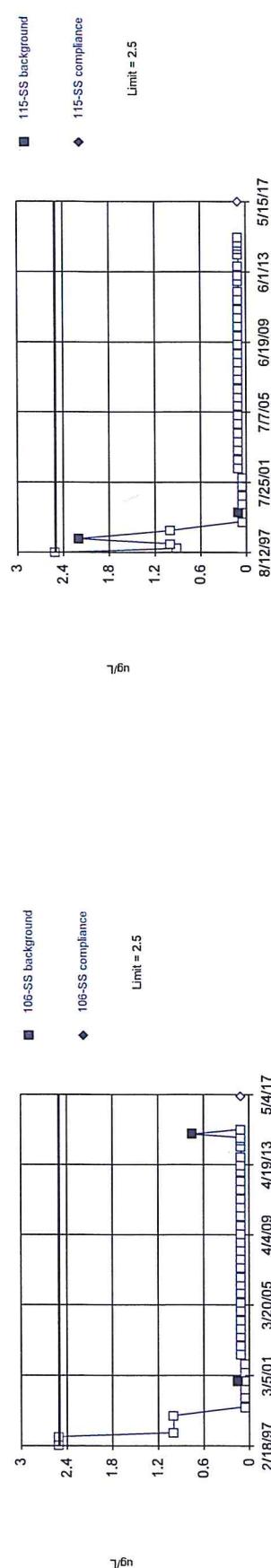
Prediction Limit
Intrawell Non-parametric



Constituent: Cadmium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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



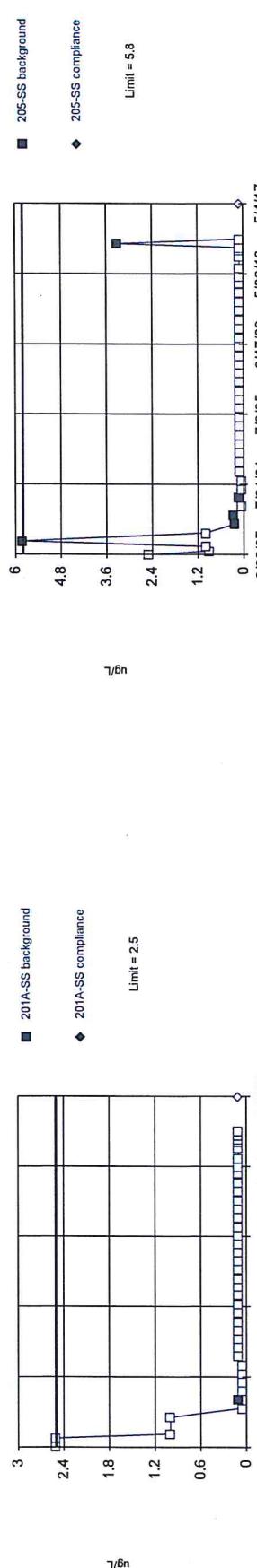
non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest non-parametric test values, 95% NBS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001525 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



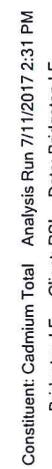
Bridgeton LF Client: RSI Data: Bridgeton LF



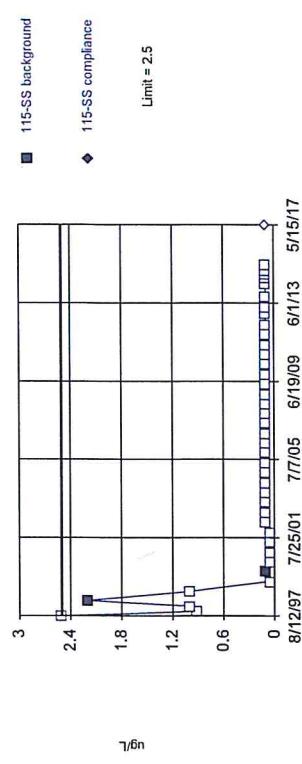
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



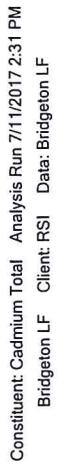
non-parametric test used in lieu of parametric limit because censored data exceeded 50%. Limit is highest (4.01 background values) at 75% NDI. When compared to a one-tail paired t-test, the non-parametric Wilcoxon signed rank test was found to have similar results.



Constituent Cadmium Total Analysis Run 7/11/2017 2:31 PM



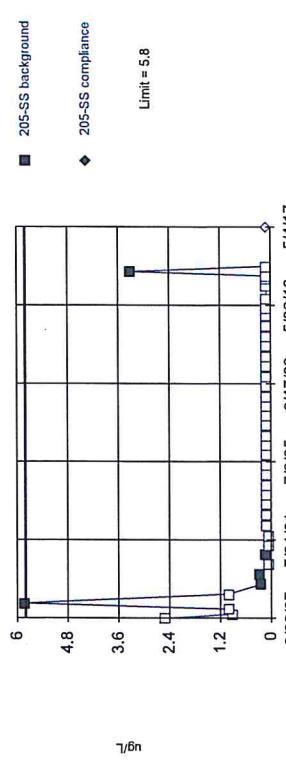
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest 0.001152 (1 or 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



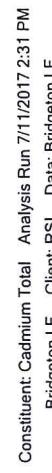
Bridgeton LF Client: RSI Data: Bridgeton LF



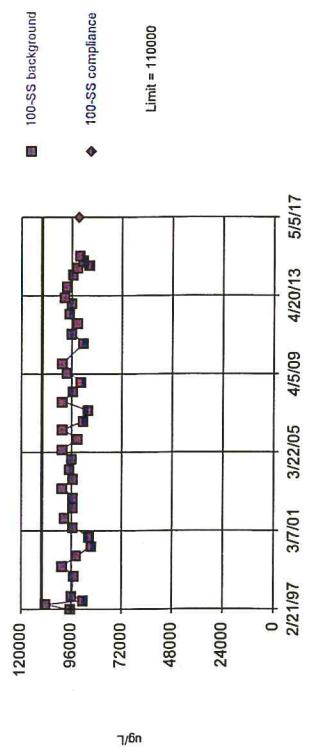
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest on 40 background species. 87.5% NDS. Wilcoxon sum per annual alpha = 0.004602. Individual comparison alpha = 0.001521 [1 of 2]. After outlier removal distribution was non-normal, so outlier results were invalidated.



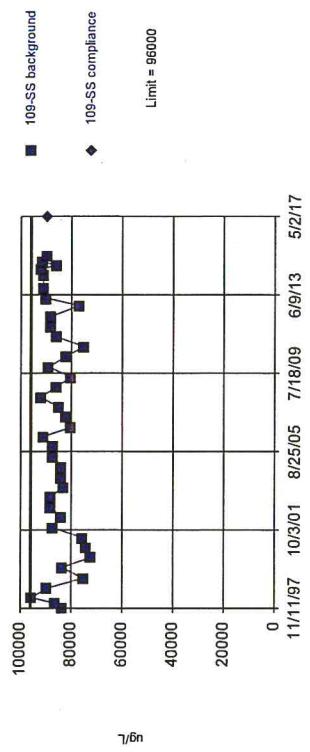
Within Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.46, Std. Dev.=0.04697, n=39, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9814, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was removed: 76000 (5/19/2010).

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

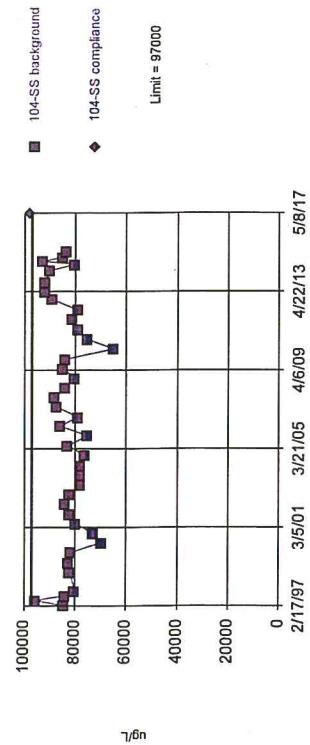
Within Limit
Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=4.0e29, Std. Dev.=1.e29, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9743, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1889 outlier screening was performed on the background data. One background outlier was removed: 174000 (8/21/1997).

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

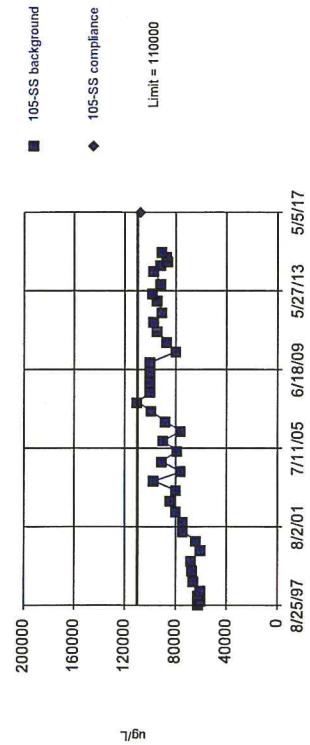
Within Limit
Exceeds Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=6.8e9, Std. Dev.=1.0e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Exceeds Limit
Intrawell Parametric

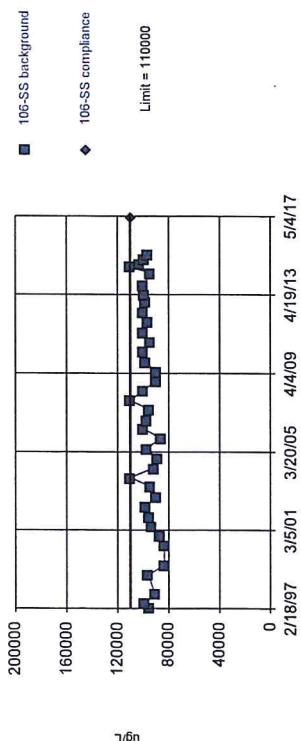


Background Data Summary (based on square transformation): Mean=6.8e9, Std. Dev.=1.0e9, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9816, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1889 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

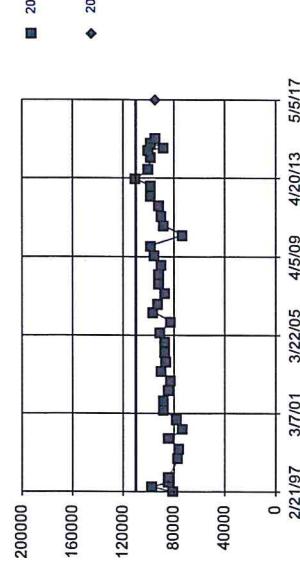


Background Data Summary (based on natural log transformation): Mean=11.47, Std. Dev.=0.06806, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9503, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1997); 90000 (11/19/1999).

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric



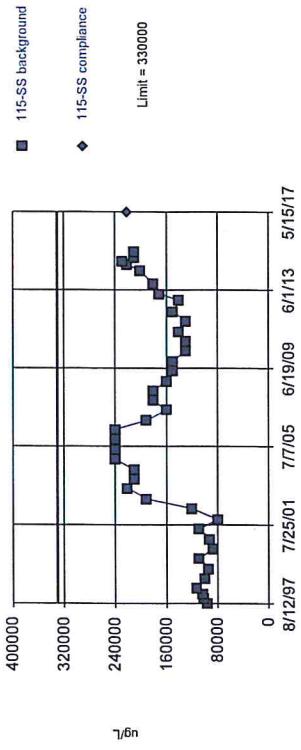
Background Data Summary: Mean=89200, Std. Dev.=8121, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9778, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

Within Limit

Prediction Limit
Intrawell Parametric



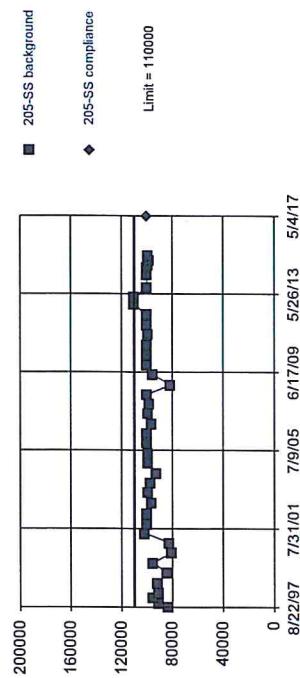
Background Data Summary (based on cube root transformation): Mean=53.67, Std. Dev.=55.983, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9292, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

Within Limit

Prediction Limit
Intrawell Non-parametric

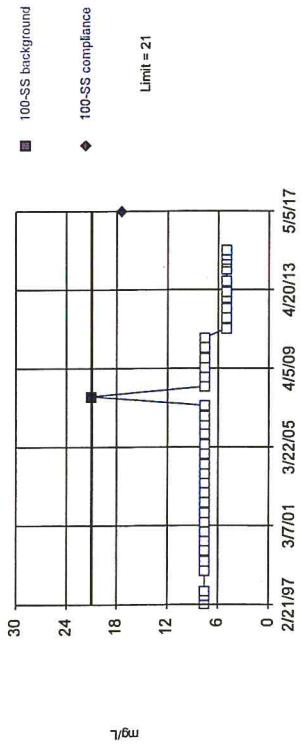


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1/2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Calcium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Suntax™ v3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

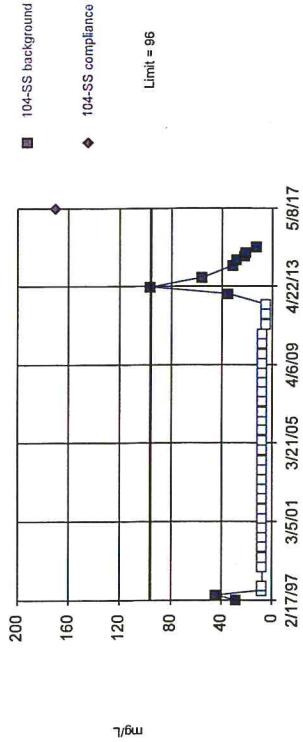
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Suntax™ v3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

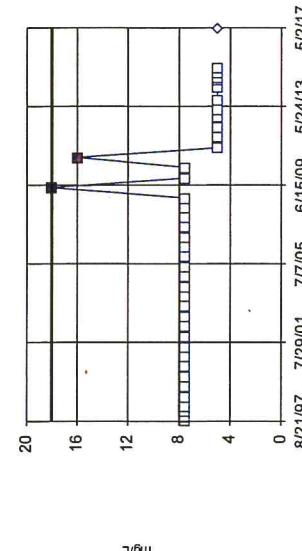
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Welch-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Suntax™ v3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

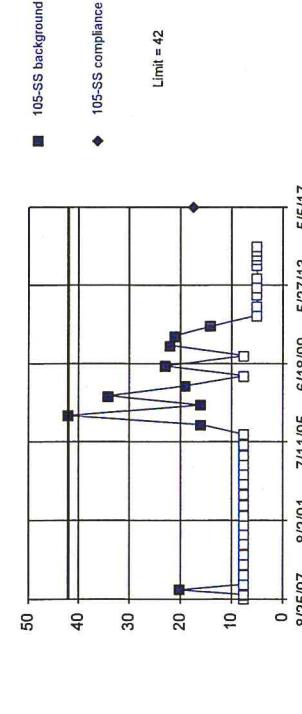
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Welch-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Suntax™ v3.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric



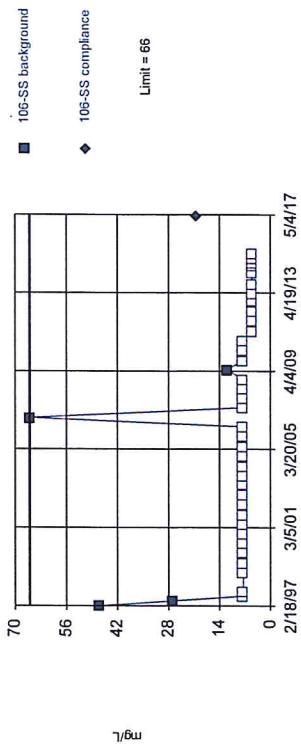
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Welch-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Chemical Oxygen Demand [COD] Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

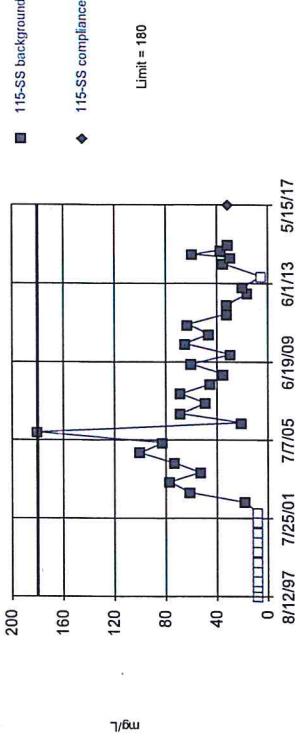
Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



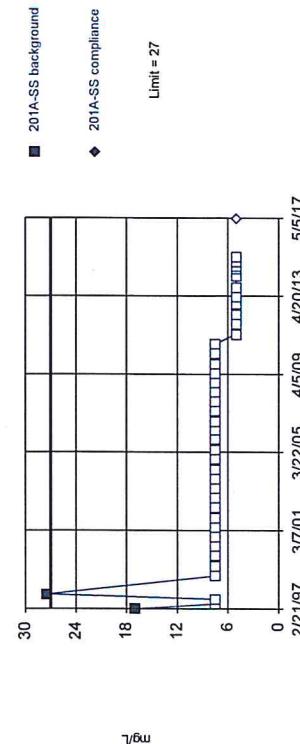
Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



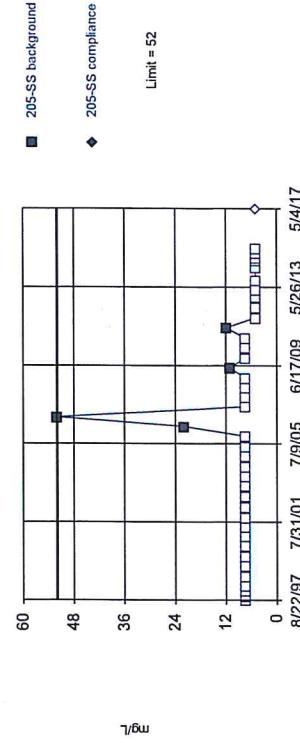
Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

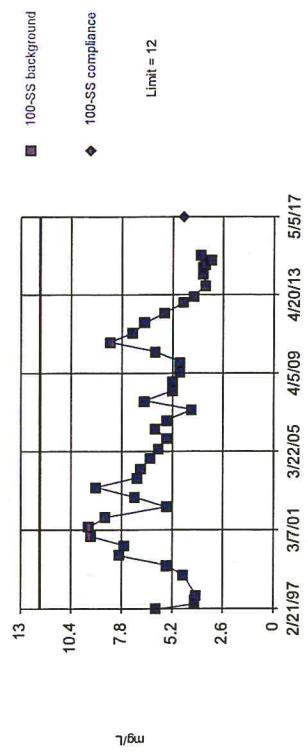


Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



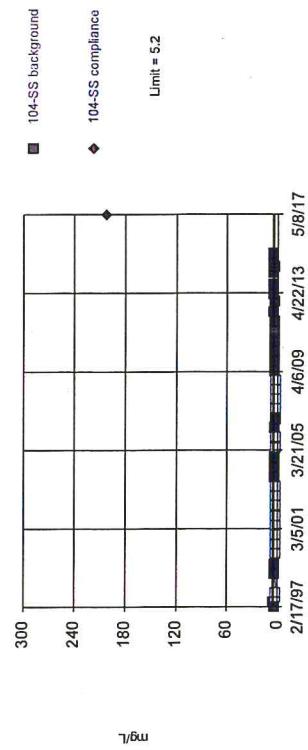
Within Limit
Intrawell Parametric



Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Background Data Summary (based on natural log transformation): Mean = 1.706, Std. Dev. = 0.3034, n=40, Normally test Shapiro Wilk @alpha = 0.01, calculated = 0.9578, critical = 0.919, Kappa = 2.592 (G=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683, EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

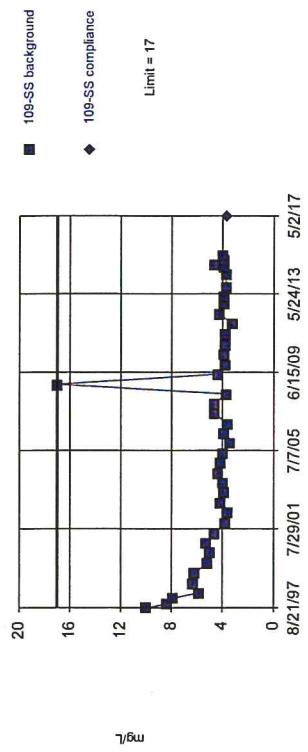
Within Limit
Intrawell Non-parametric



Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

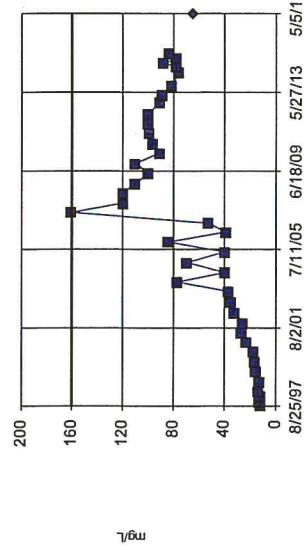
Within Limit
Intrawell Non-parametric



Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

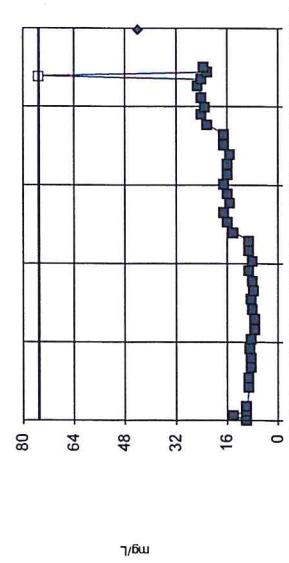
Within Limit
Intrawell Non-parametric



Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

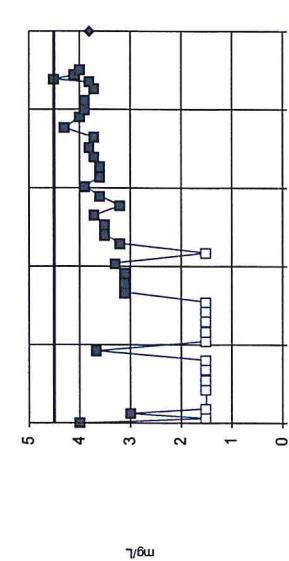
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 2.3% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

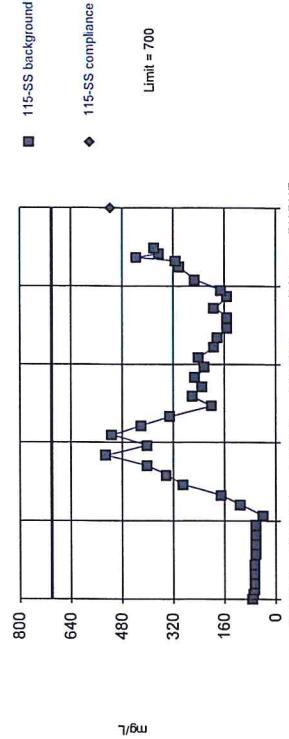
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

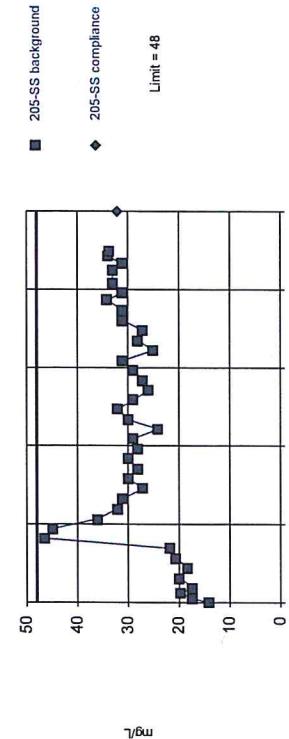
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=14.05, Std. Dev.=4.798, n=10. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9314, critical = 0.919. Kappa = 0.592 (c=34, w=8, 1 of 2 event alpha = 0.026). Report alpha = 0.0009633. EPA 1889 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 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.298, Std. Dev.=0.6393, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9436, critical = 0.917. Kappa = 2.601 (c=34 w=8, 1 of 2 event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: <150 (11/20/2014).

Constituent: Chloride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

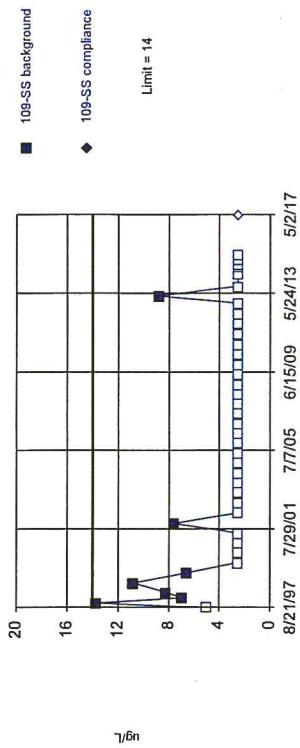


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Chromium Total Analysis Run 7/1/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

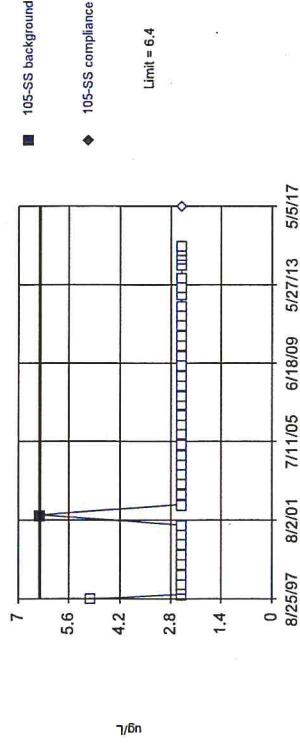


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 7/1/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Chromium Total Analysis Run 7/1/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

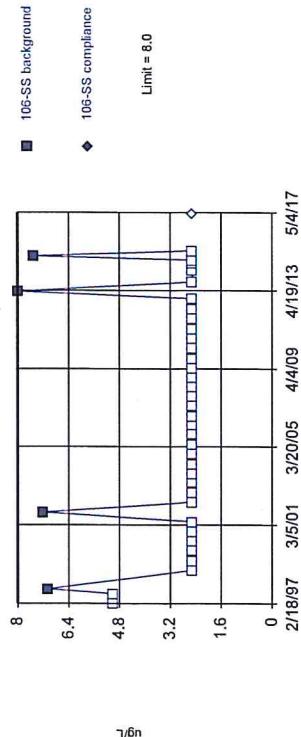
Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

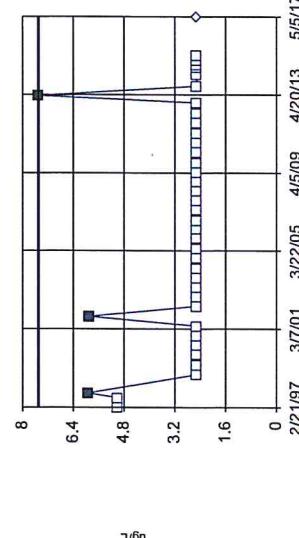


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Chromium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

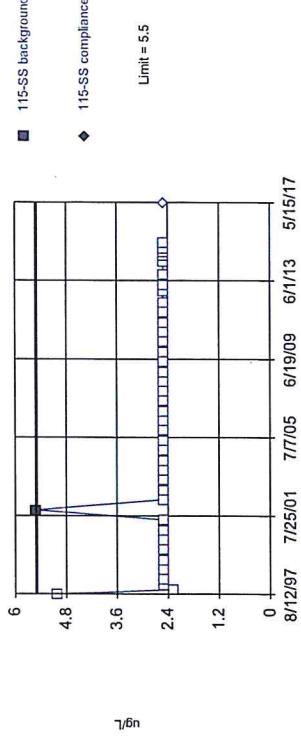


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

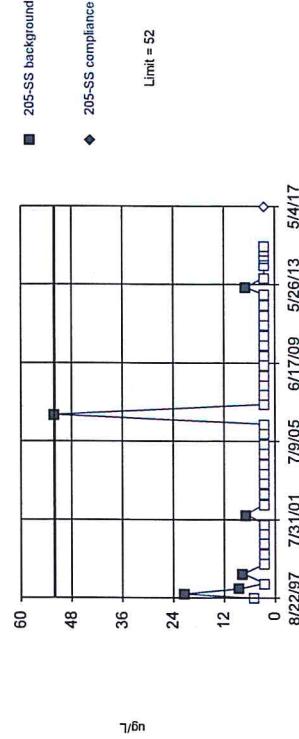


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Chromium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



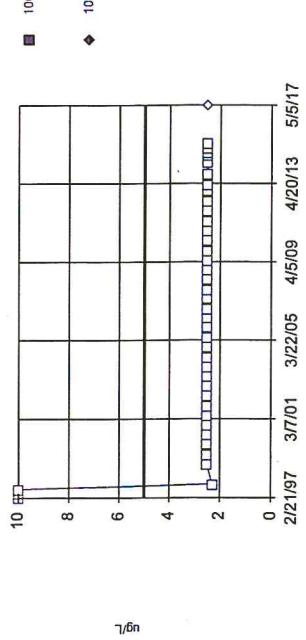
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 85% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chromium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v4.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santius™ v4.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

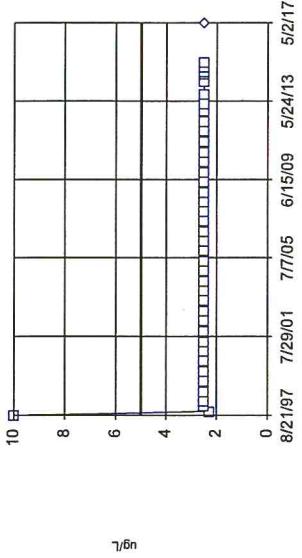


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 10$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v4.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

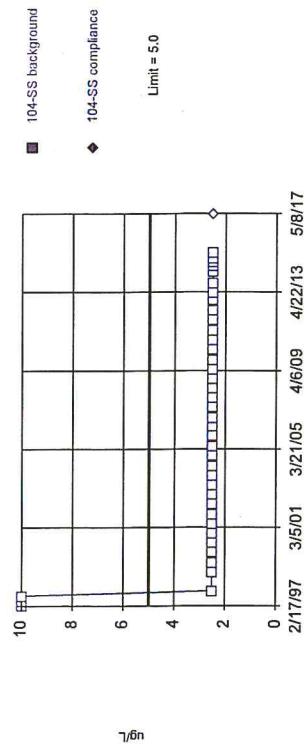
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 10$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric
Within Limit

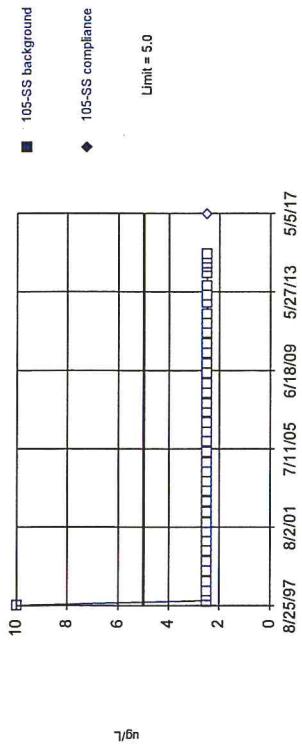


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 10$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v4.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

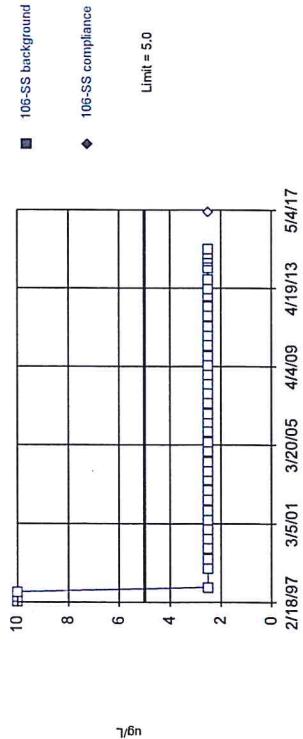


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 10$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

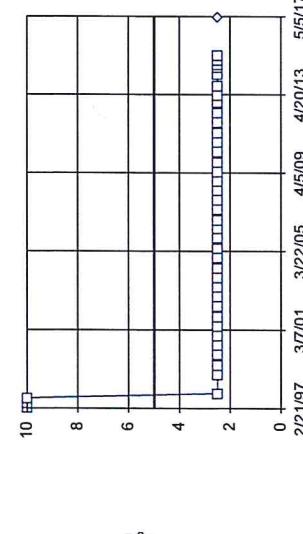


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

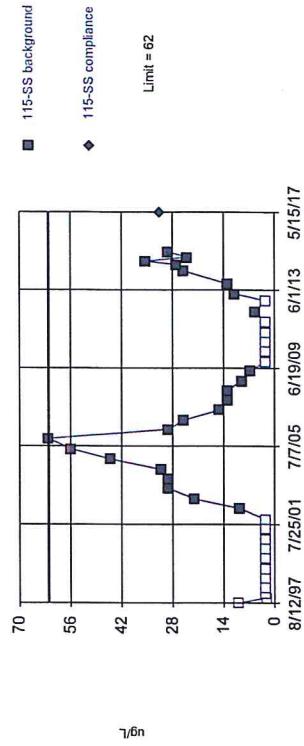
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

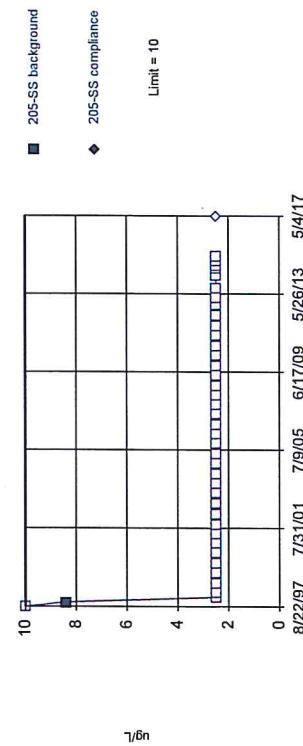


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values, 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

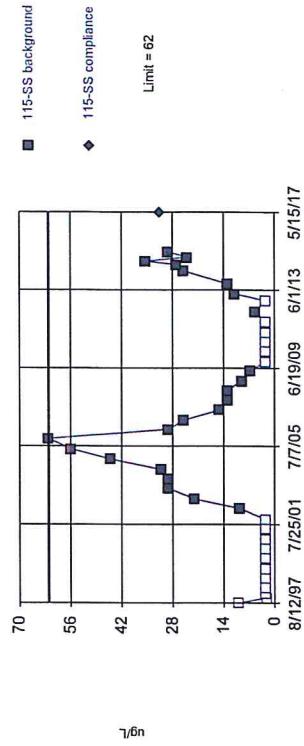
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

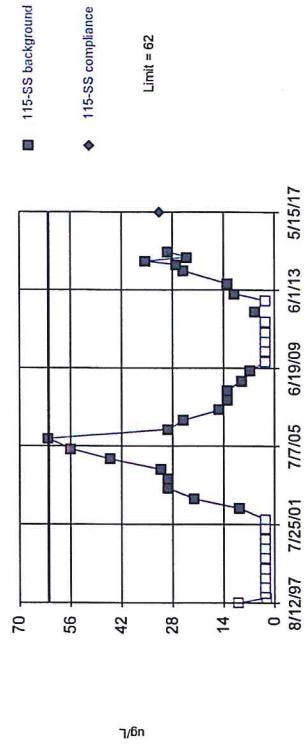


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



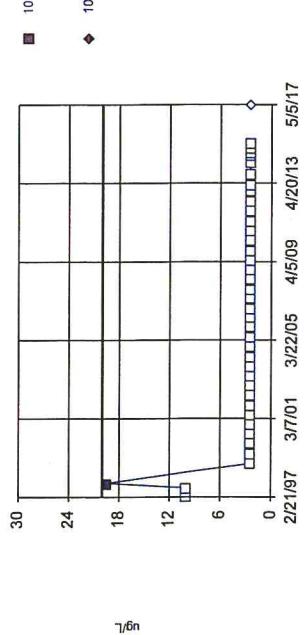
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santax™ v.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

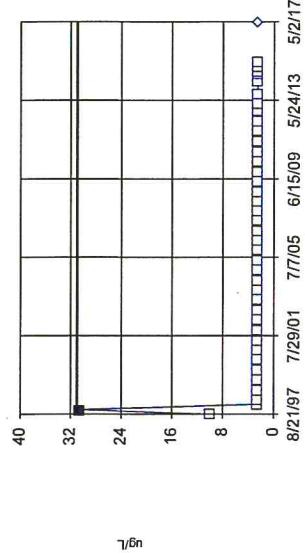


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

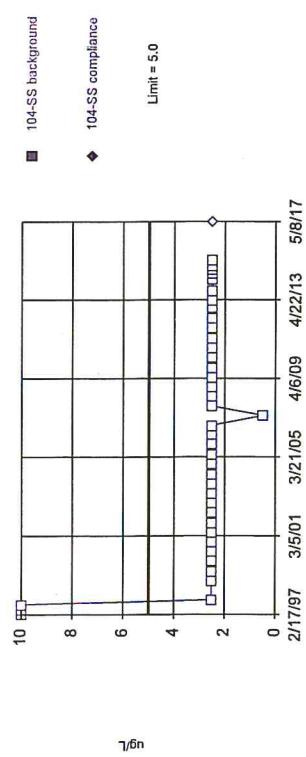


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

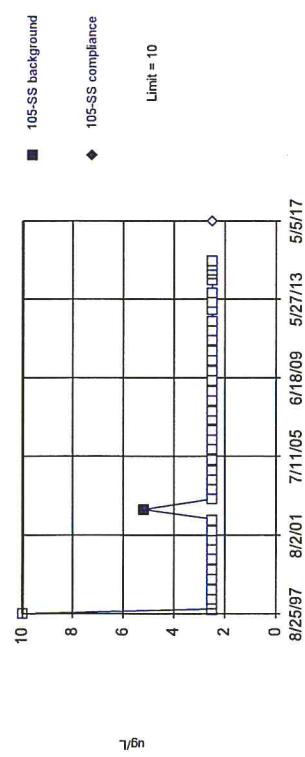


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

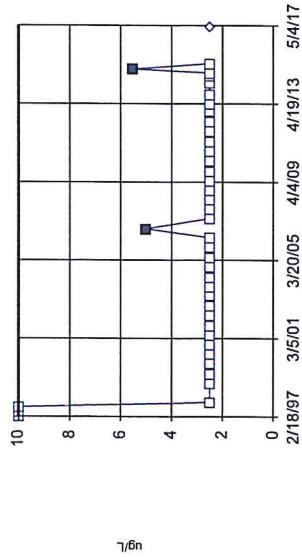


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

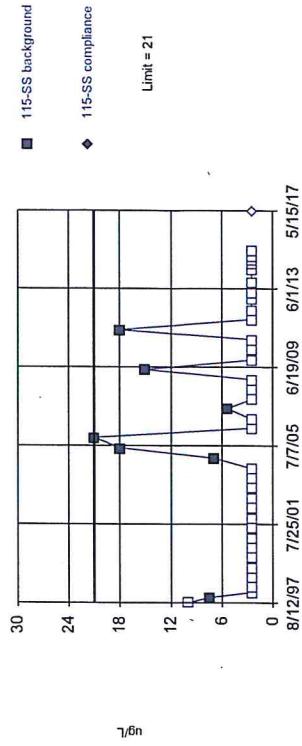
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

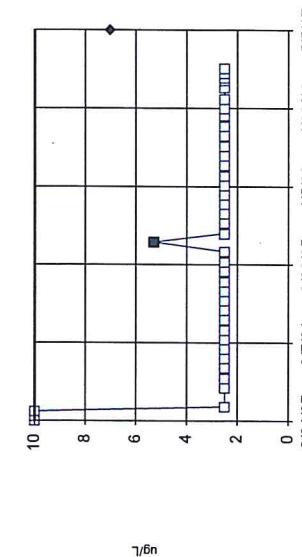
Prediction Limit
Intrawell Non-parametric



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.

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

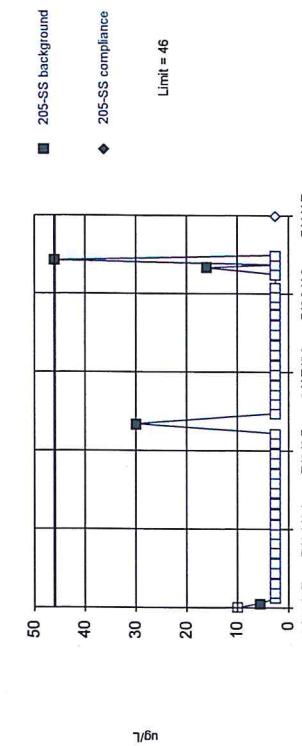
Prediction Limit
Intrawell Non-parametric



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

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

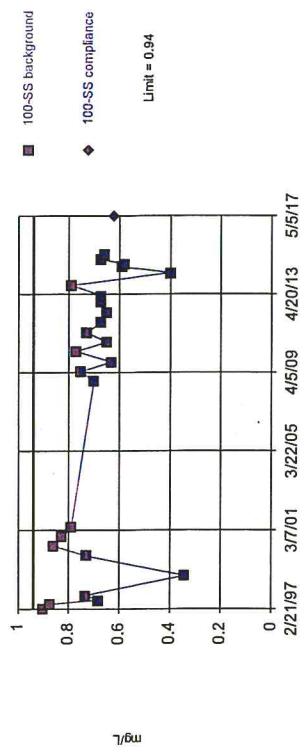


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

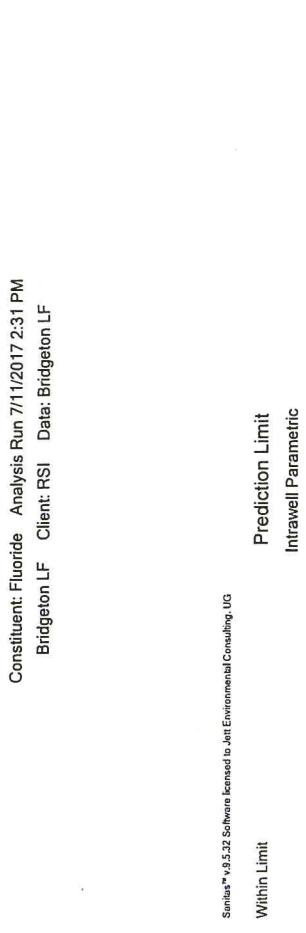
Constituent: Copper Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



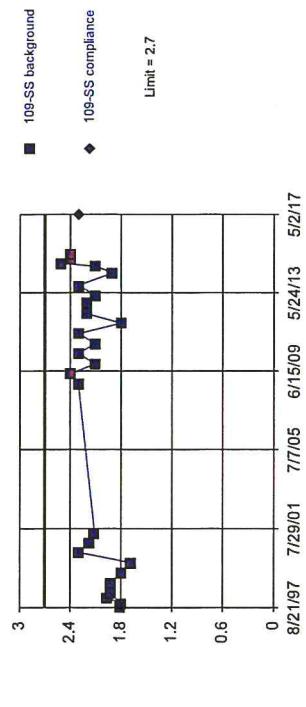
Background Data Summary (based on square transformation): Mean=0.3625, Std. Dev.=0.1685, n=25, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9619, critical = 0.888. Kappa = 2.783 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: <0.25 (5/18/1998).

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



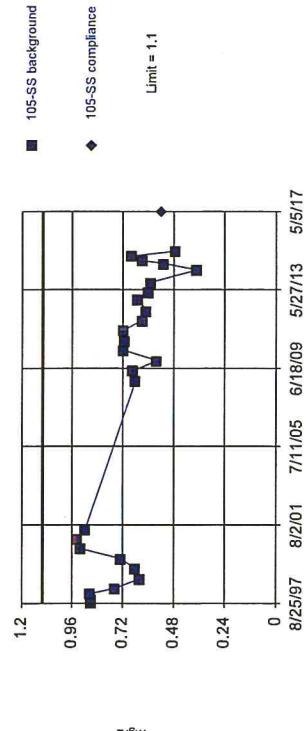
Background Data Summary (based on cube transformation): Mean=0.3625, Std. Dev.=0.1674, n=24, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9604, critical = 0.884. Kappa = 2.811 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: <0.25 (8/28/1997); 0.3 (4/11/2013).

Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.504, Std. Dev.=0.9966, n=26, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9495, critical = 0.891. Kappa = 2.766 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Within Limit
Prediction Limit
Intrawell Parametric



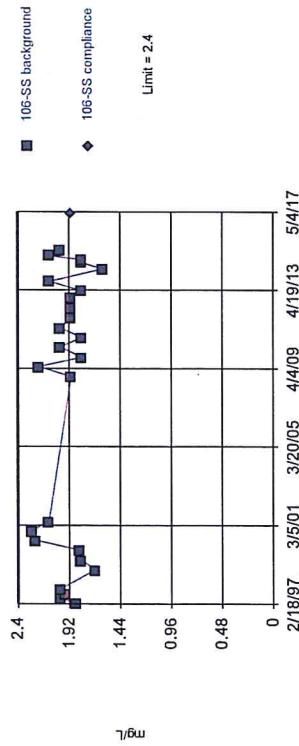
Background Data Summary (based on cube transformation): Mean=0.6903, Std. Dev.=0.1403, n=26, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9562, critical = 0.891. Kappa = 2.766 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Suntax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

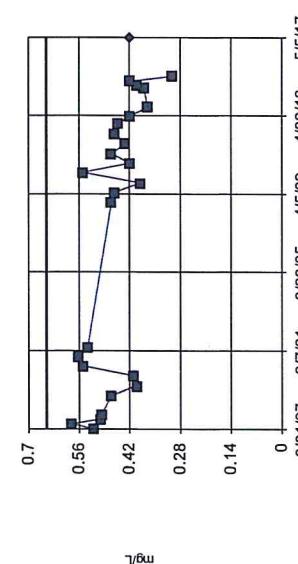


Background Data Summary (based on natural log transformation): Mean=0.6576, Std. Dev.=0.08543, n=26.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9659, critical = 0.891, Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Suntax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

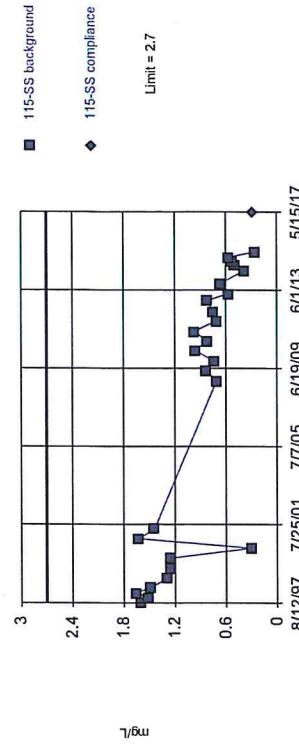
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.4567, Std. Dev.=0.06897, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.888, Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.18 (5/28/2014).

Suntax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

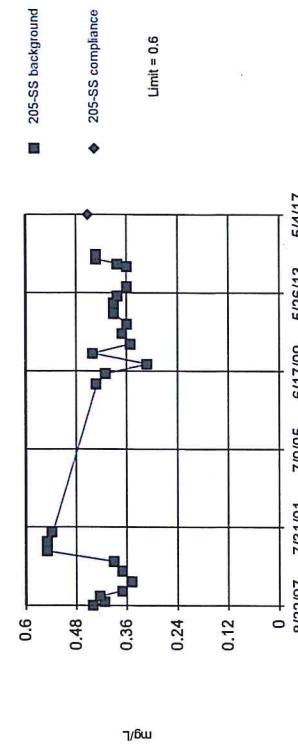


Background Data Summary (based on cube root transformation): Mean=0.9509, Std. Dev.=0.1594, n=26.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9484, critical = 0.891, Kappa = 2.766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Suntax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

Prediction Limit
Intrawell Parametric

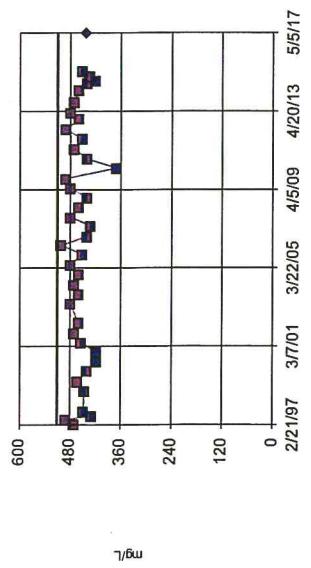


Background Data Summary (based on natural log transformation): Mean=0.909, Std. Dev.=0.1421, n=25.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9114, critical = 0.9114, Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 0.18 (5/28/2014).

Suntax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

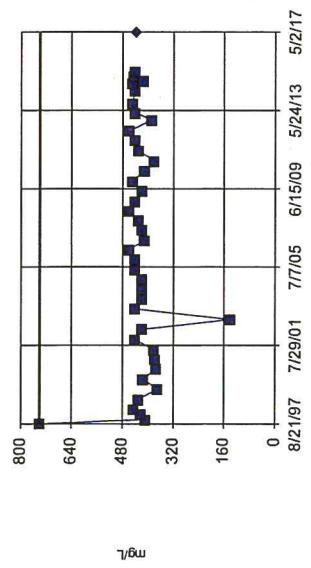
Prediction Limit
Intrawell Parametric

Constituent: Fluoride Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



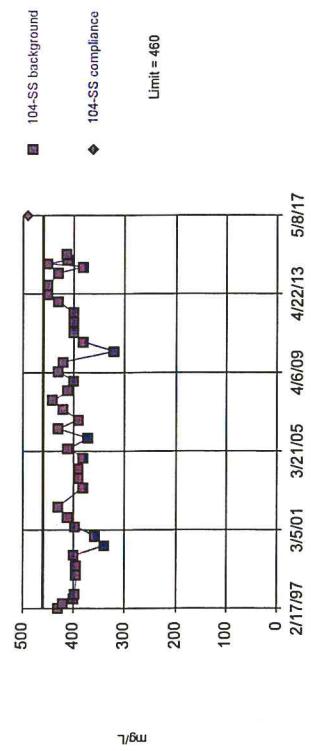
Background Data Summary (based on x^{α} transformation): Mean=2.0813, Std. Dev.=5.2412, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9827, critical = 0.977. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



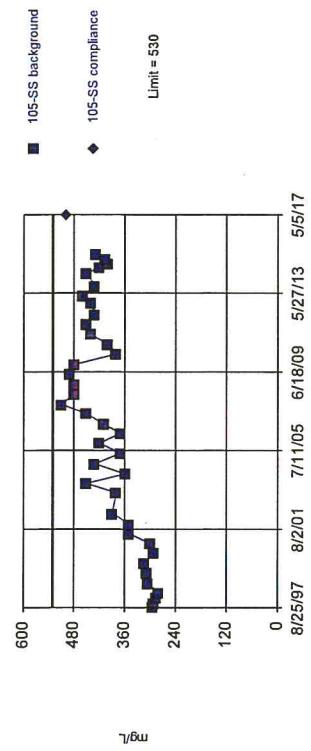
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on x^{α} transformation): Mean=2.7161, Std. Dev.=7.169, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9686, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

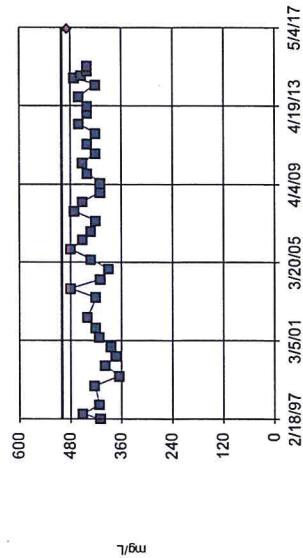
Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on cube transformation): Mean=6.667, Std. Dev.=3.087, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9477, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

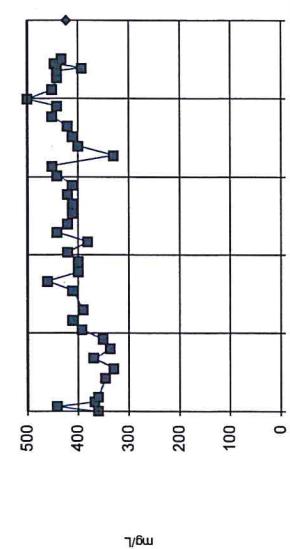
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=185370, Std. Dev.=23529, n=38. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.972, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 265 (8/23/1997); 130 (11/19/2002).

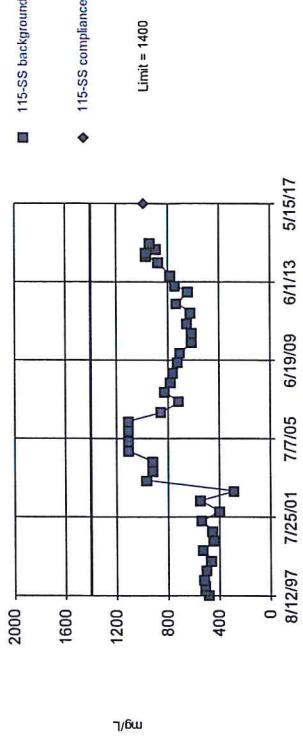
Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=166992, Std. Dev.=31934, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

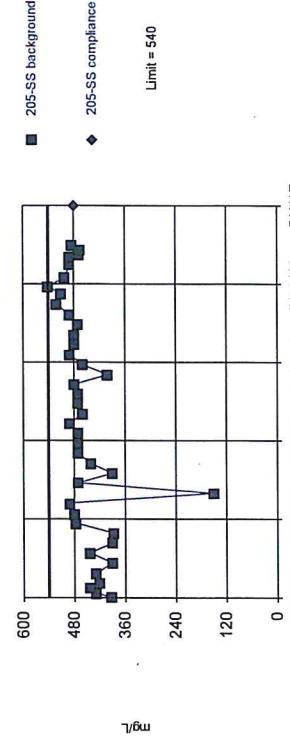
Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on square root transformation): Mean=26.46, Std. Dev.=4.163, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9609, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA's 989 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 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



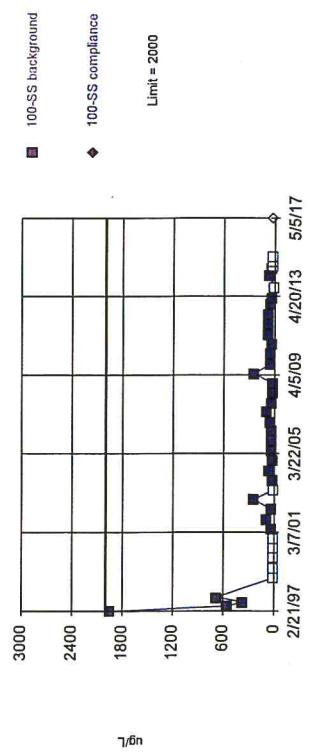
Background Data Summary (based on x^5 transformation): Mean=2.2e13, Std. Dev.=9.0e12, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

Santius™ v.3.5.32 Software licensed to Jen Environmental Consulting, UG
Exceeds Limit

Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. ~25% NDs. Wilcoxon signed rank comparison alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

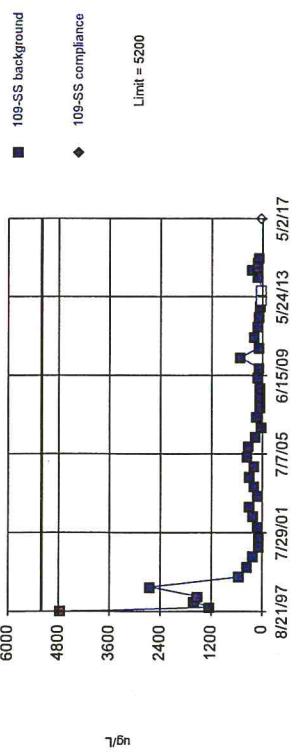
Constituent: Iron Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.3.5.32 Software licensed to Jen Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric

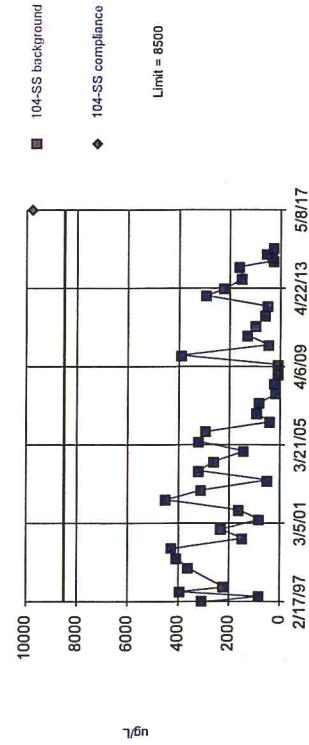


Background Data Summary (based on natural log transformation): Mean=5.028, Std. Dev.=1.361, n=40, 5% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was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

Constituent: Iron Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Exceeds Limit

Within Limit



Background Data Summary (based on cube root transformation): Mean=10.06, Std. Dev.=3.646, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9386, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

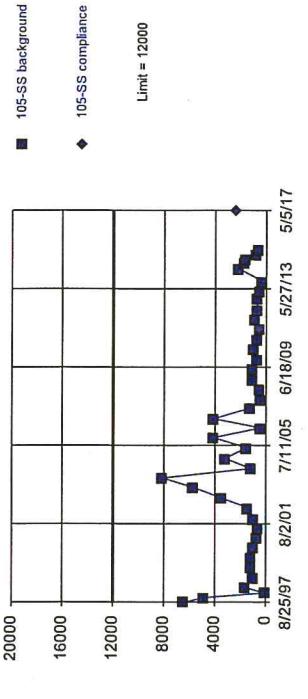
Constituent: Iron Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.3.5.32 Software licensed to Jen Environmental Consulting, UG
Exceeds Limit

Within Limit

Prediction Limit

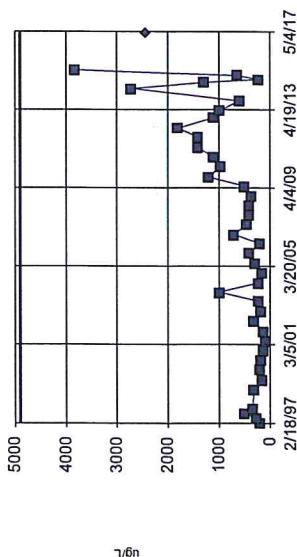
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.052, Std. Dev.=0.9184, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9596, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

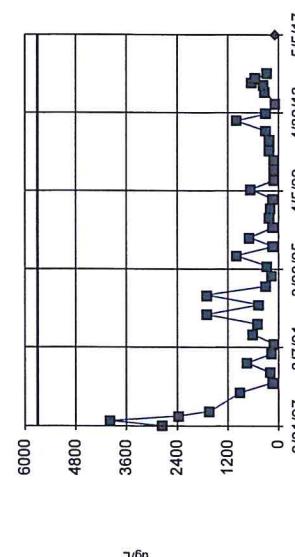
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=8.103, Std. Dev.=0.921, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9678, critical = 0.919. Kappa = 2.592 c=34, w=8, 1 of 2, event alpha = 0.026. Report alpha = 0.0009683. EPA 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 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

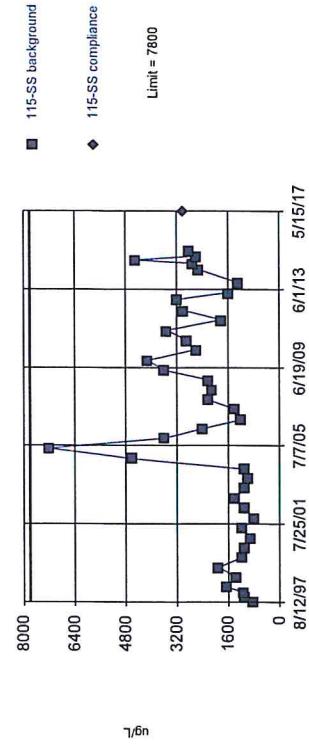
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.9, Std. Dev.=1.058, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9514, critical = 0.919. Kappa = 2.592 c=34, w=8, 1 of 2, event alpha = 0.026. Report alpha = 0.0009683. EPA 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 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

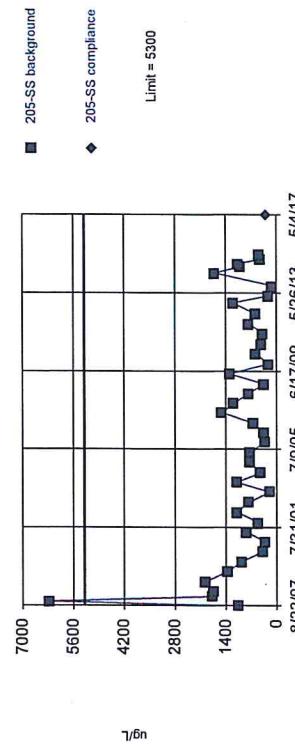
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=7.55, Std. Dev.=0.5467, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9494, critical = 0.919. Kappa = 2.592 c=34, w=8, 1 of 2, event alpha = 0.026. Report alpha = 0.0009683. EPA 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 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric

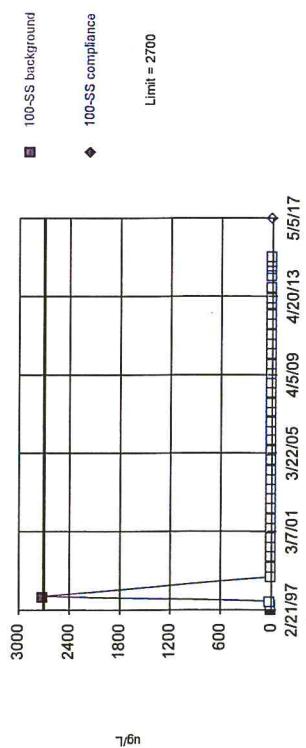


Background Data Summary (based on natural log transformation): Mean=6.53, Std. Dev.=0.7894, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.919. Kappa = 2.592 c=34, w=8, 1 of 2, event alpha = 0.026. Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

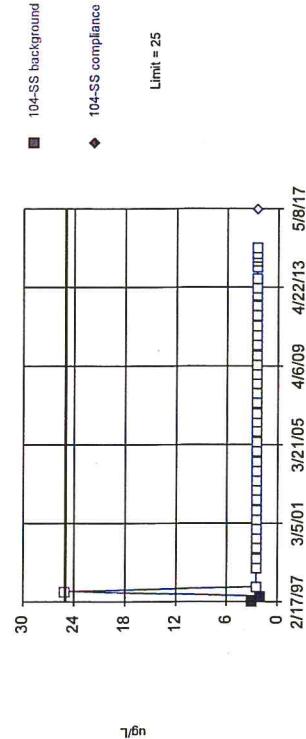
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santana™ v.9.5.32 Software licensed to Jent Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

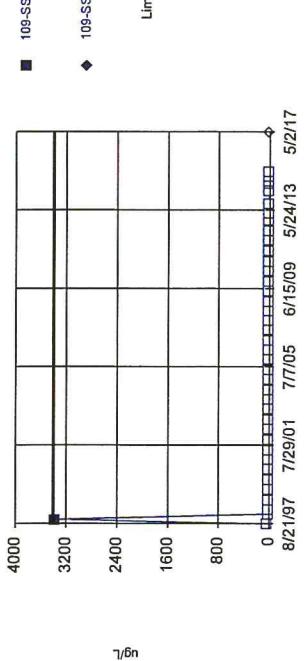


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santana™ v.9.5.32 Software licensed to Jent Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

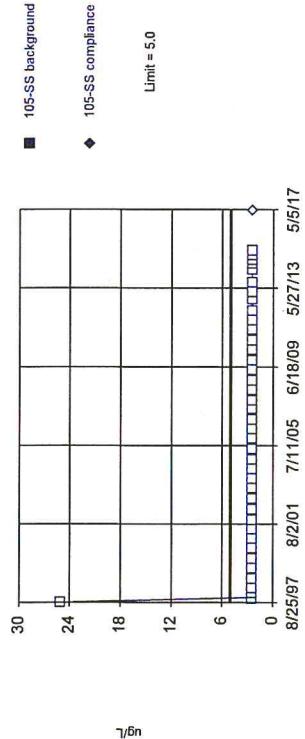


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santana™ v.9.5.32 Software licensed to Jent Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



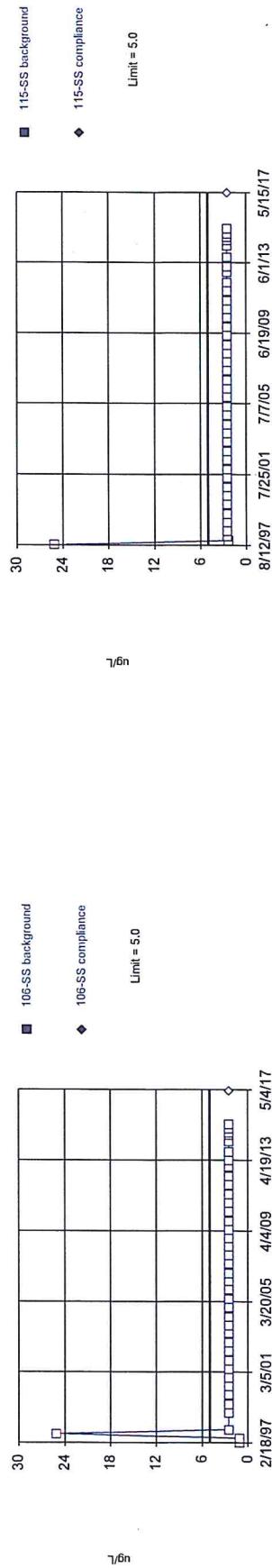
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

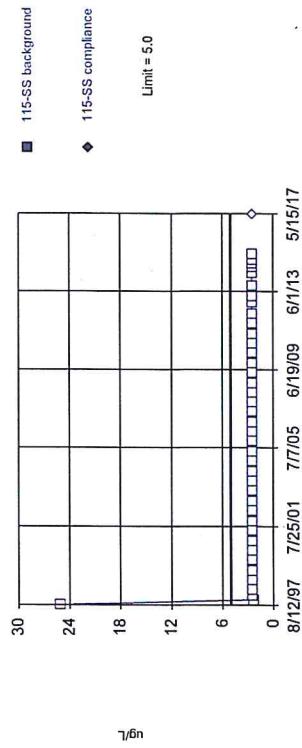
Prediction Limit
Intrawell Non-parametric



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

Santax™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



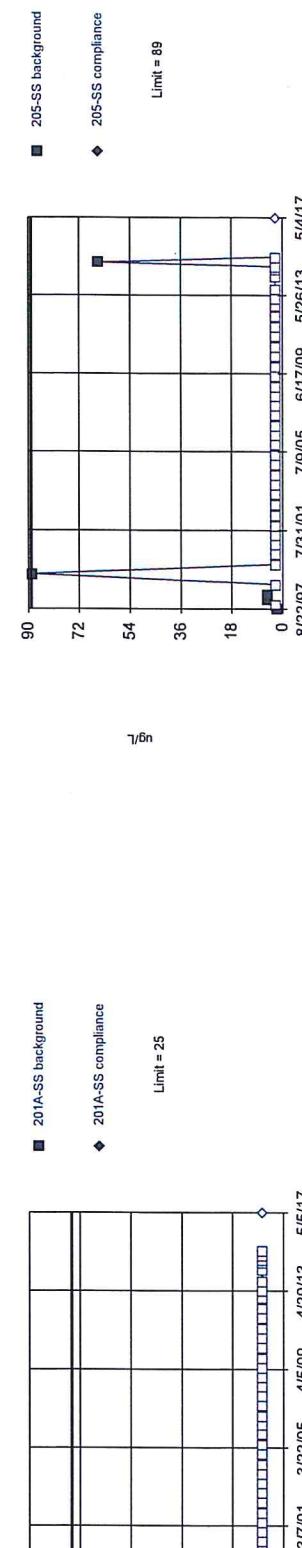
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

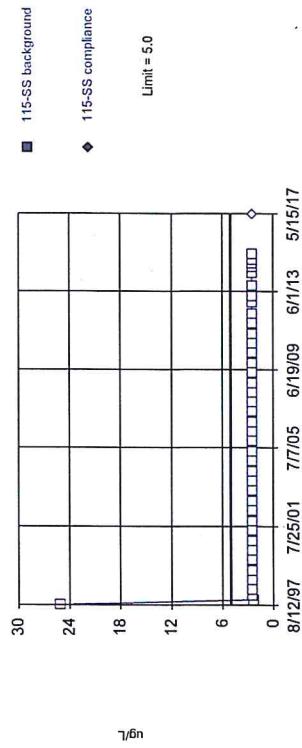
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santax™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

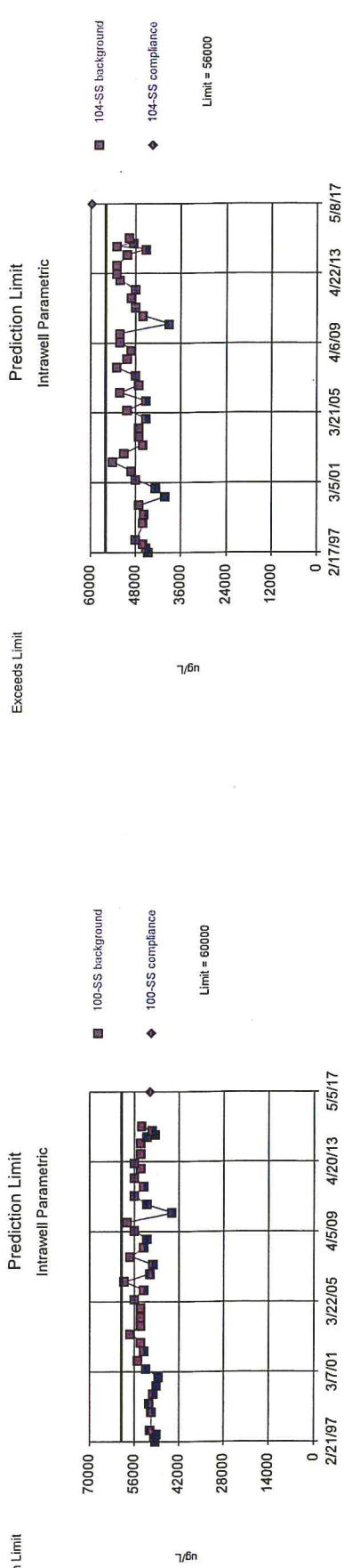


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Lead Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

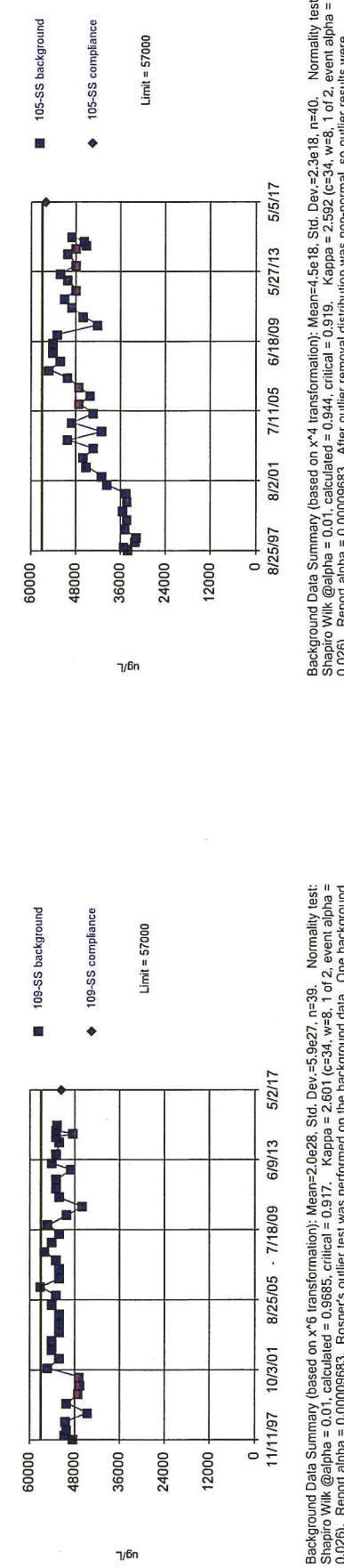
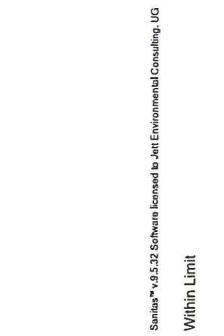
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



Background Data Summary (based on cube transformation): Mean=2.4e13, Std. Dev.=2.4e13, n=0. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9654, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

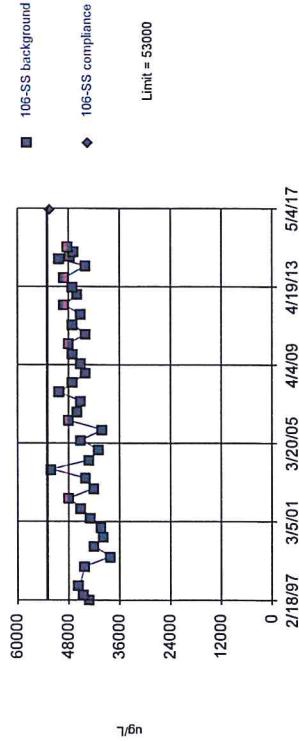


Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santist™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

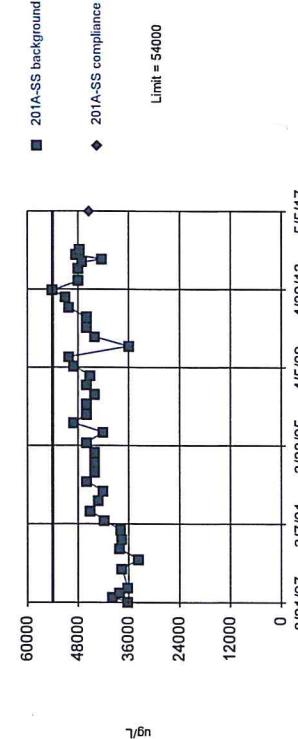
Prediction Limit
Intrawell Parametric



Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santist™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

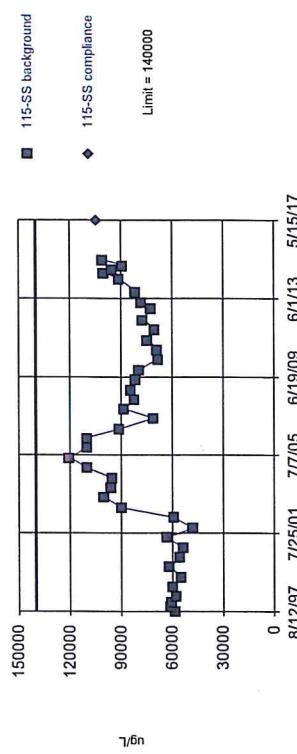


Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santist™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

Within Limit

Prediction Limit
Intrawell Parametric

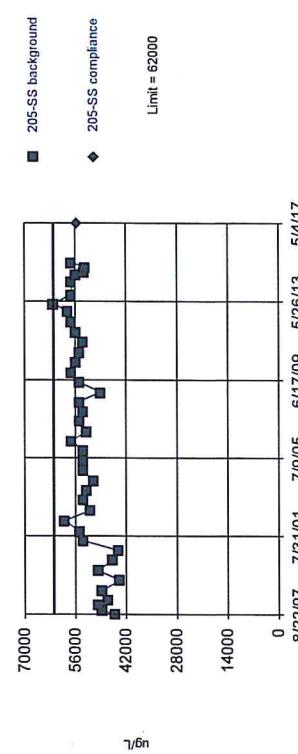


Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santist™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG

Within Limit

Prediction Limit
Intrawell Parametric

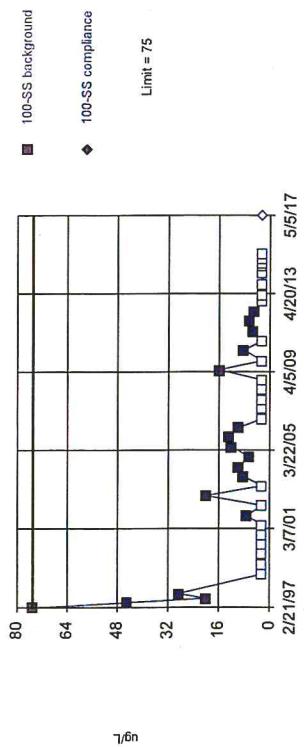


Constituent: Magnesium Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric



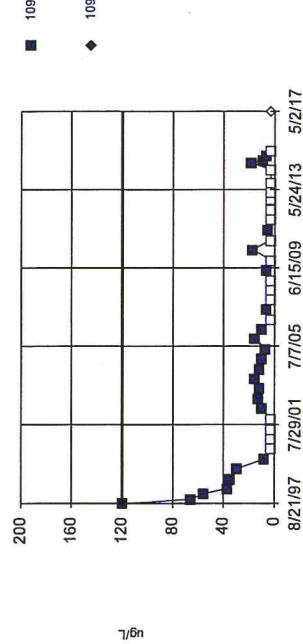
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 57.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 or 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric



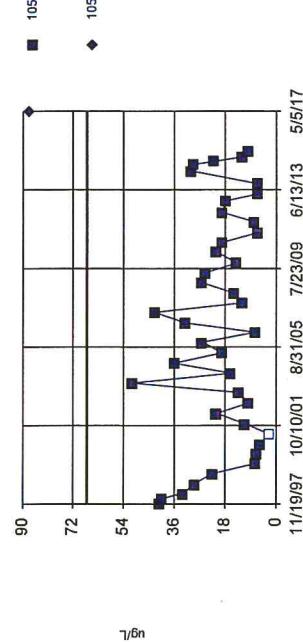
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 or 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=5.486, Std. Dev.=1.746, n=39, 2.564% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9695, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 160 (11/4/2009).

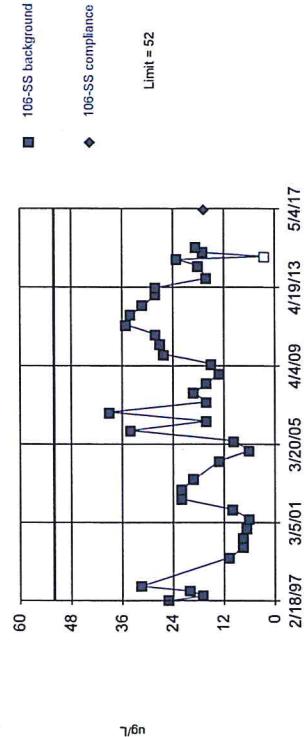
Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Manganese Total Analysis Run 7/11/2017 2:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit Intrawell Parametric

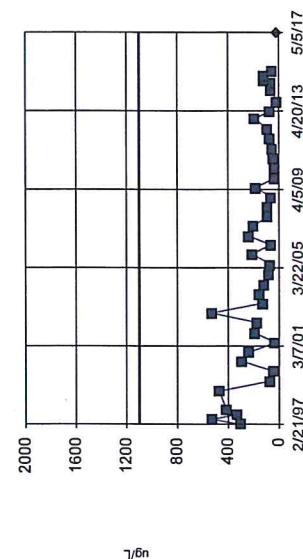


Constituent: Manganese Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Background Data Summary (based on square root transformation): Mean=4.249, Std. Dev.=1.13, n=38, 2.632% NDs. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.916, Kappa = 2.611 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683, Rosner's outlier test was performed on the background data. Two background outliers were removed: 84.2 (11/11/1998); 270 (11/20/2003).

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

Prediction Limit Intrawell Parametric

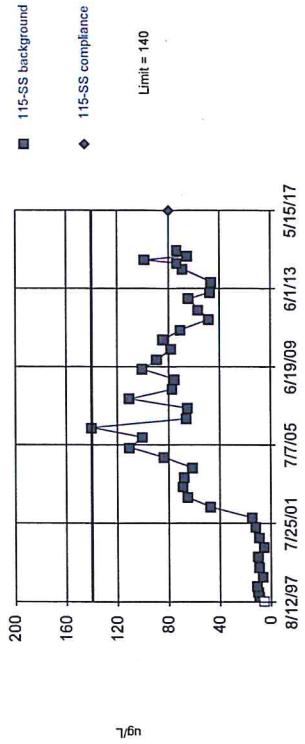


Background Data Summary (based on natural log transformation): Mean=4.69, Std. Dev.=0.8887, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9728, critical = 0.919, Kappa = 2.592 (c=34 w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683, EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Manganese Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Non-parametric

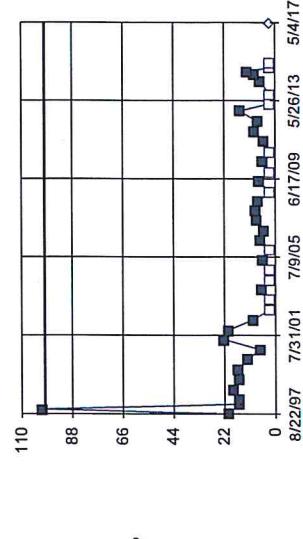


Constituent: Manganese Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values, 2.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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

Prediction Limit Intrawell Non-parametric



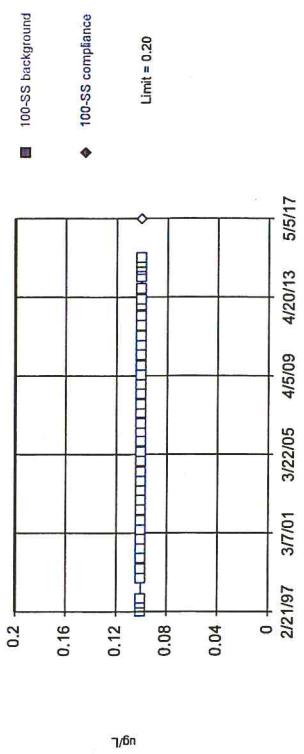
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values, 30% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Manganese Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit
Intrawell Non-parametric



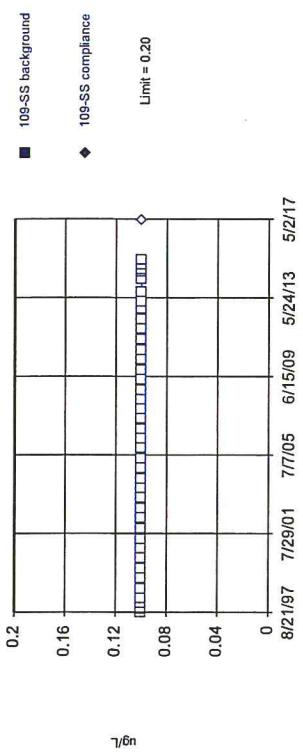
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric

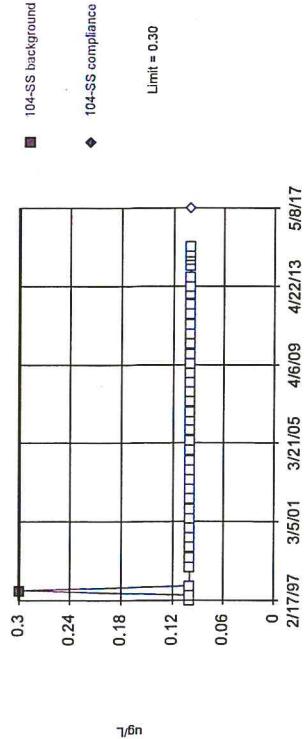


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

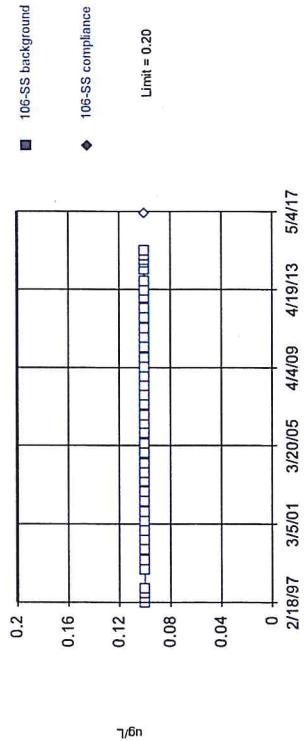
Prediction Limit
Intrawell Non-parametric



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

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

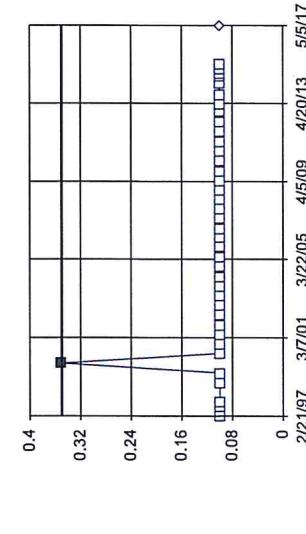
Prediction Limit
Within Limit
Intrawell Non-parametric



Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

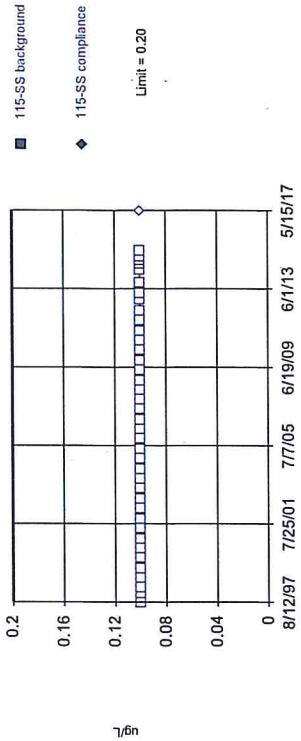
Prediction Limit
Within Limit
Intrawell Non-parametric



Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

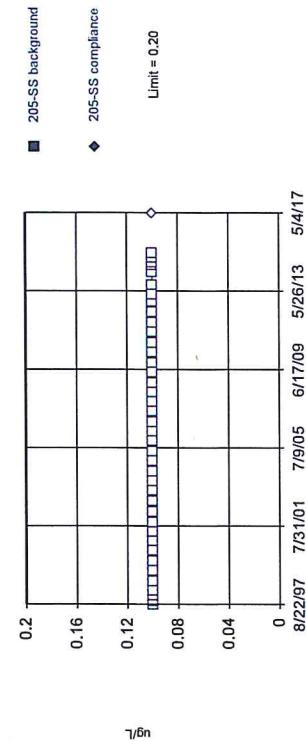
Prediction Limit
Within Limit
Intrawell Non-parametric



Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

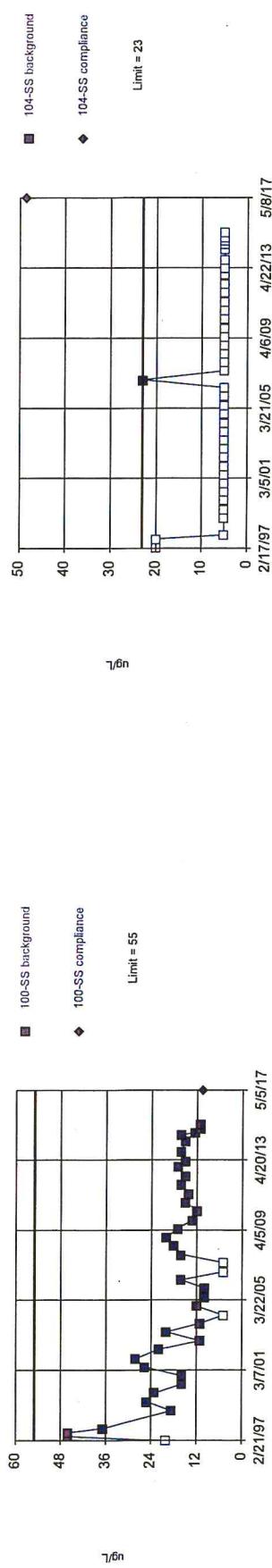
Prediction Limit
Within Limit
Intrawell Non-parametric



Constituent: Mercury Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric
Within Limit



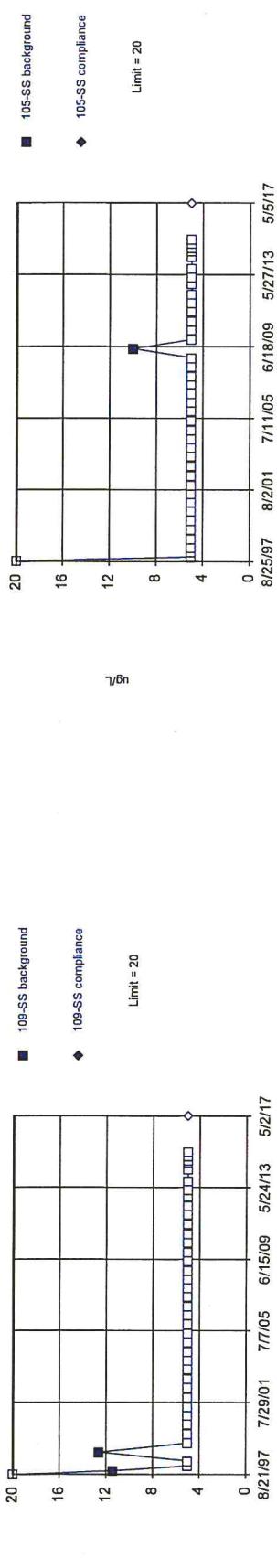
Background Data Summary (based on natural log transformation): Mean=2.743, Std. Dev.=0.491, n=40, 10% NDs.
Normality test: Shapiro-Wilk @ alpha = 0.01, calculated = 0.9342, critical = 0.919. Kappa = 2.592 (d=34, w=8, 1 or 2, even alpha = 0.0261). Report alpha = 0.00005863. EPA 1869 outlier screening 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 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric
Exceeds Limit

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



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

Constituent: Nickel Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

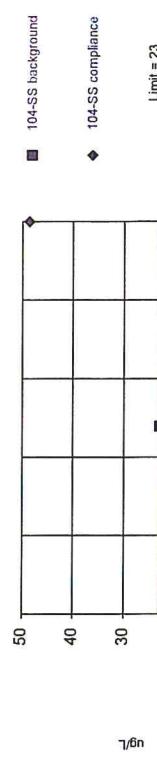
Prediction Limit
Intrawell Non-parametric
Exceeds Limit

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Exceeds Limit



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

Constituent: Nickel Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

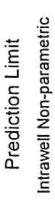
Prediction Limit
Intrawell Non-parametric
Exceeds Limit



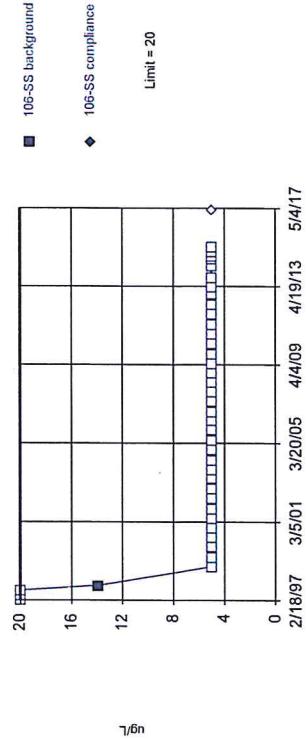
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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



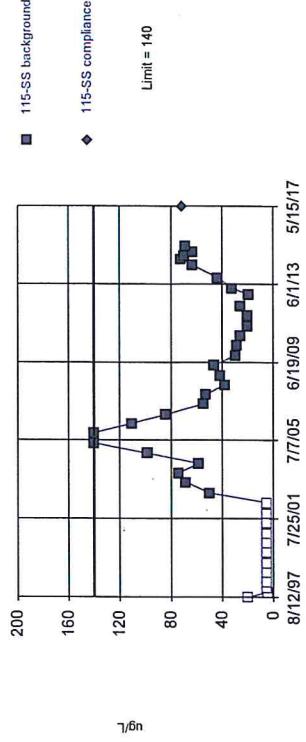
Within Limit
Santos™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 0.40 background years. 97.5% NBS. Walk-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001151 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



Non-parametric test used in the 0.01 alpha level, because the Shapiro Wilk normality test showed that the data was not normal ($\alpha = 0.004602$), while comparison alpha = 0.001152 (1%). After outlier removal distribution was non-



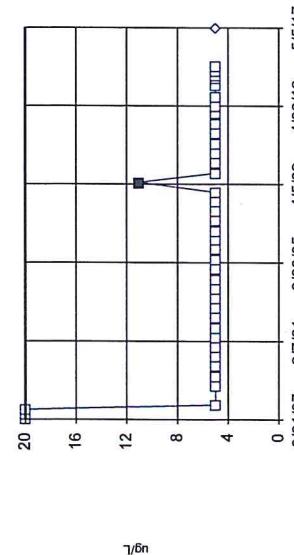
Constituent: Nickel Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Constituent: Nickel Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



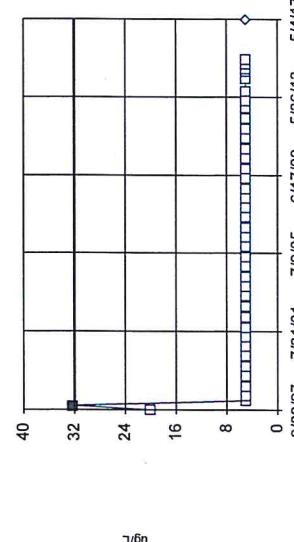
EnviroSantits™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Follow symbols indicate censored values.



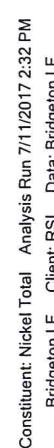
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40, 00, 11522 (1 or 2). After outlier removal, non-param annual alpha = 0.004002. Individual comparison alpha = 0.975. Non-Parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40, 00, 11522 (1 or 2). After outlier removal, non-param annual alpha = 0.004002. Individual comparison alpha = 0.975.



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



Non-parametric test used in lieu of parametric prediction limit, because censored data exceeded 50%. Limit is highest of 40 background values, 97.5% NDS. Well-constituent pair-normal, $\alpha = 0.004602$, individual comparison, $\alpha = 0.001151$ ($1/2$). After outlier removal distribution was non-normal, so outlier results were invalidated.

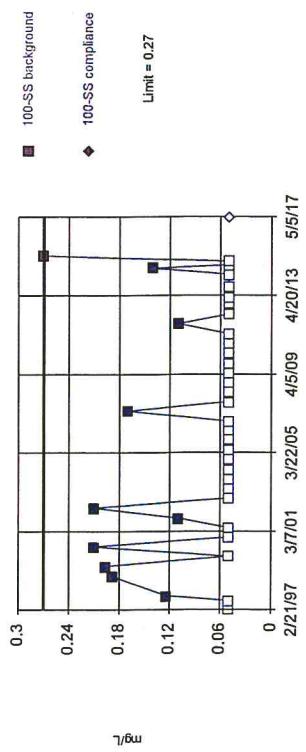


Constituent: Nickel Total Analysis Run 7/11/2017 2:32 PM
Bridgerton I E Client: RSI Data: Bridgerton I E



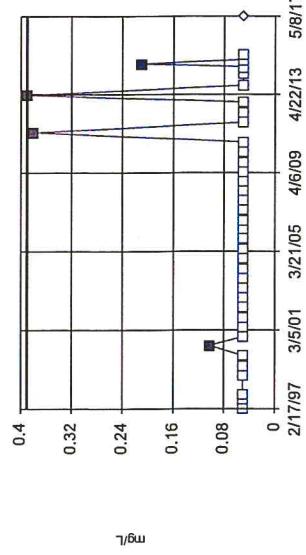
Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

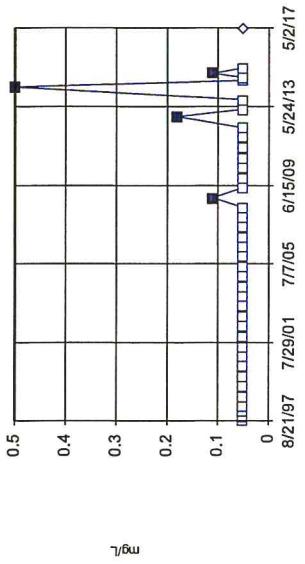
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

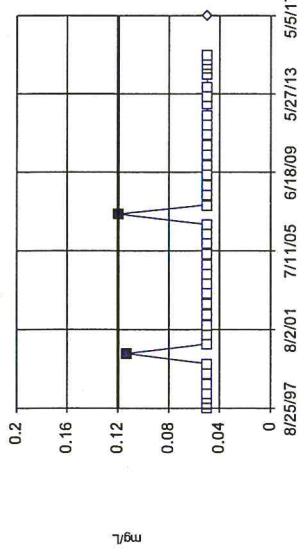
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabar™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

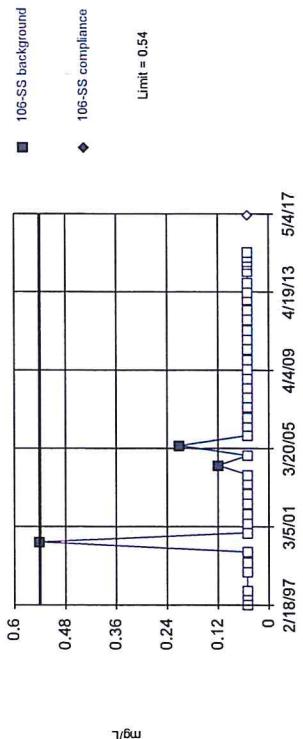
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Non-parametric

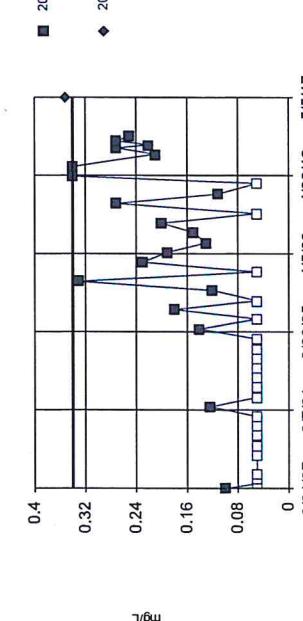


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

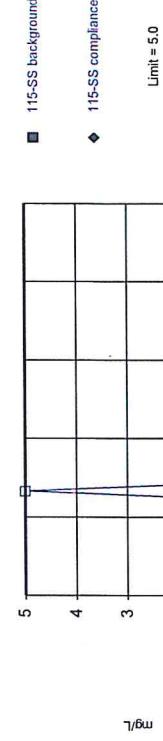
Prediction Limit Intrawell Non-parametric



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

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

Prediction Limit Intrawell Non-parametric

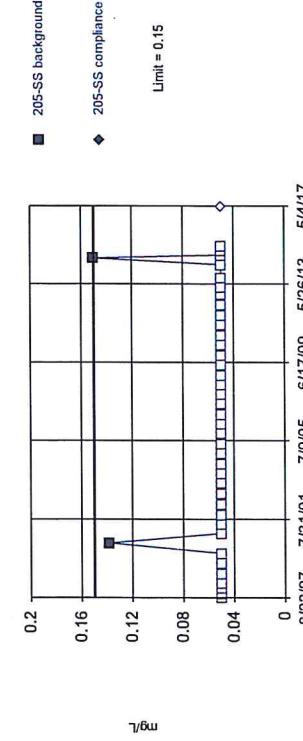


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

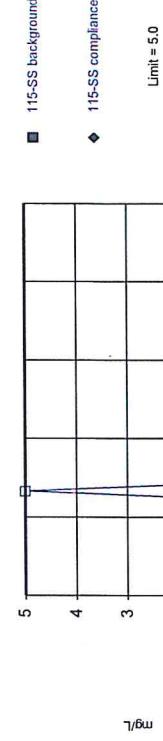
Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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

Prediction Limit Intrawell Non-parametric

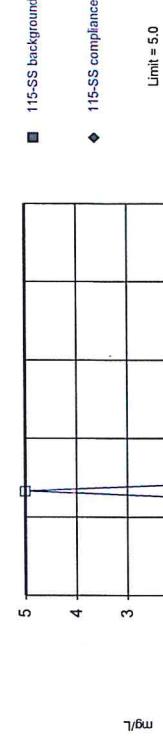


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit Intrawell Non-parametric

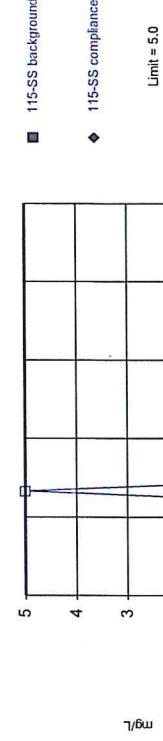


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

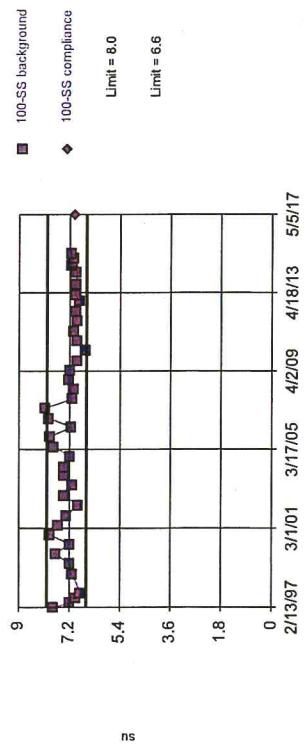
Prediction Limit Intrawell Non-parametric



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

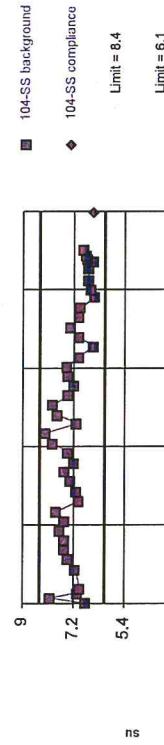
Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limits
Intrawell Non-parametric



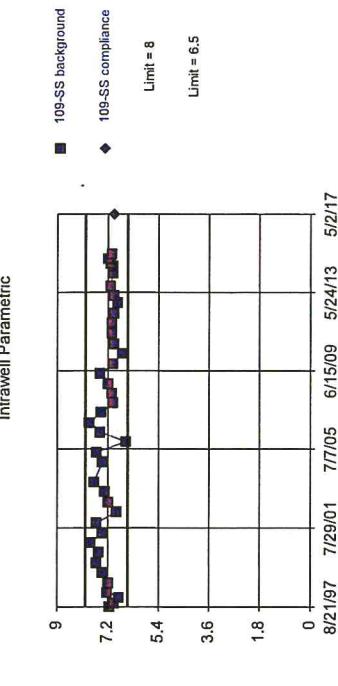
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 40 background values. Well-constituent pair annual alpha = 0.005204. Individual comparison alpha = 0.002305 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Within Limits
Intrawell Parametric



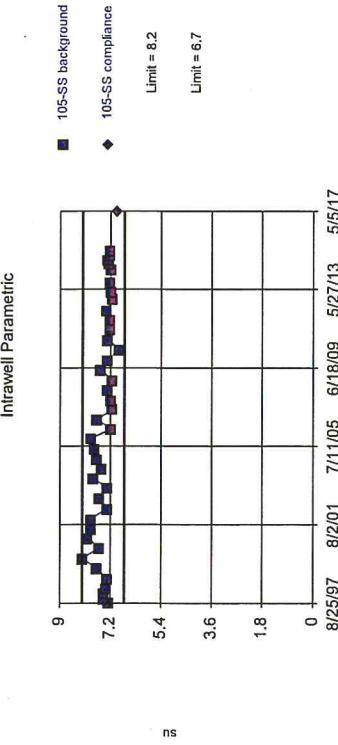
Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.061, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.983, critical = 0.919. Kappa = .592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Within Limits
Bridgeton LF Client: RSI Data: Bridgeton LF



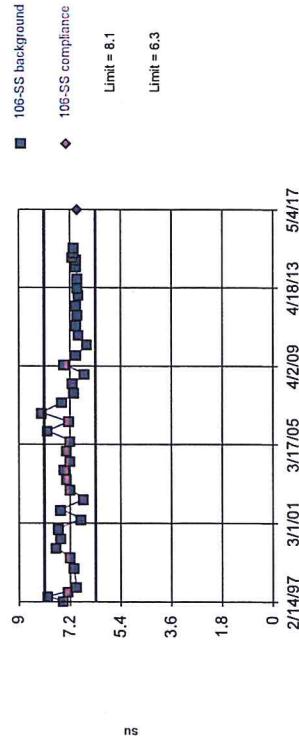
Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04155, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9715, critical = 0.917. Kappa = .2601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 10.9 (5/11/2004).

Within Limits
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on natural log transformation): Mean=2.005, Std. Dev.=0.0387, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9193, critical = 0.919. Kappa = .592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

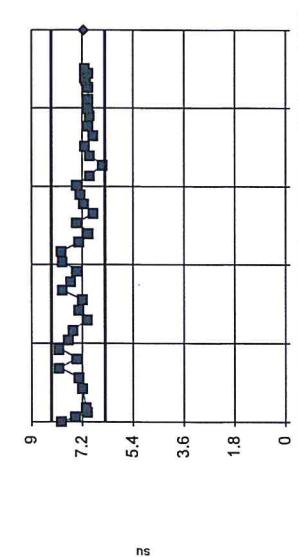
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.971, Std. Dev.=0.04652, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9462, critical = 0.919. Kappa = 0.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

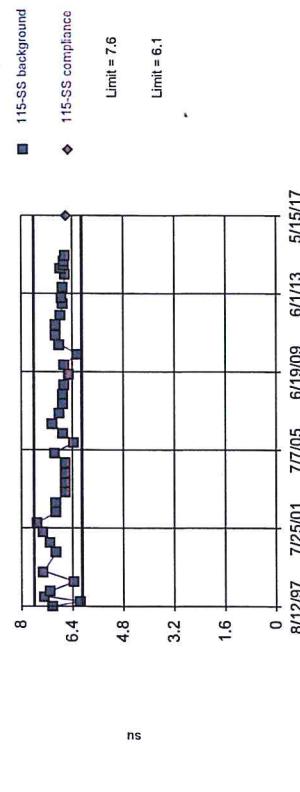
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.981, Std. Dev.=0.05083, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9294, critical = 0.919. Kappa = 0.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

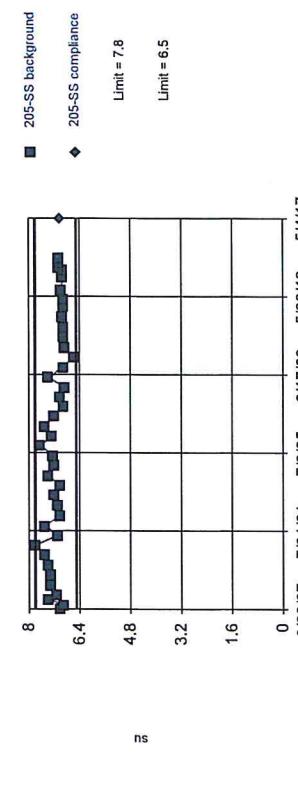
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.911, Std. Dev.=0.04272, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9601, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 7.9 (11/19/1989).

Constituent: pH [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



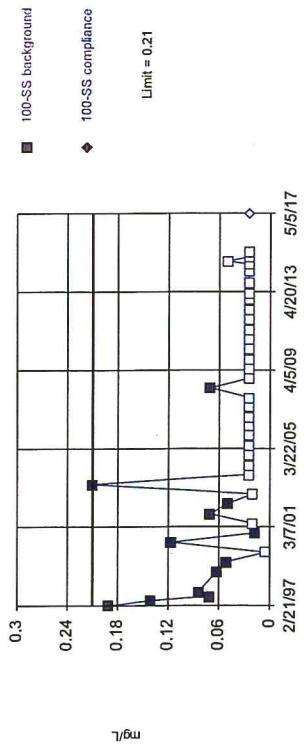
Background Data Summary (based on natural log transformation): Mean=1.964, Std. Dev.=0.03507, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 2.592, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: pH [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Within Limit
Intrawell Non-parametric
Prediction Limit

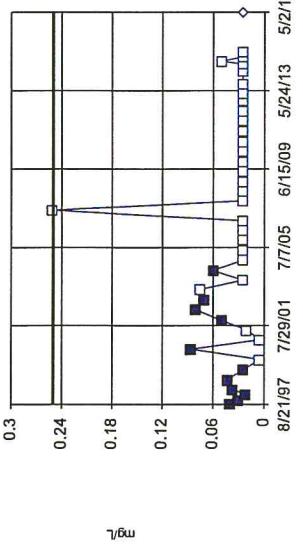


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Intrawell Non-parametric
Prediction Limit

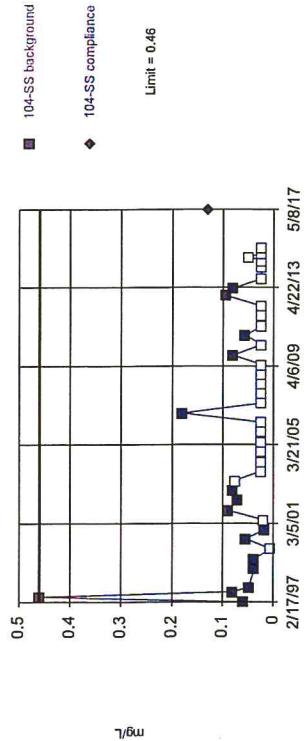


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Intrawell Non-parametric
Prediction Limit

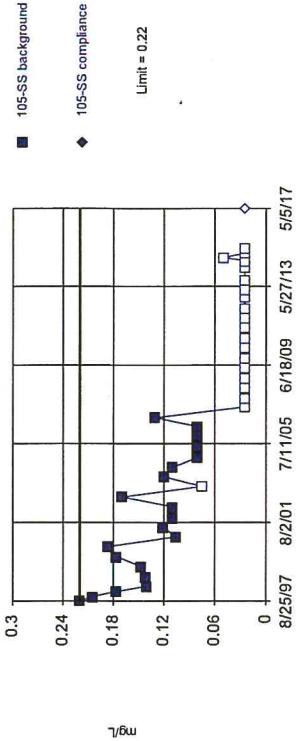


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 60% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Intrawell Non-parametric
Prediction Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

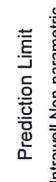
Santax™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

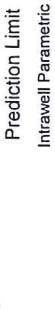
Santax™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

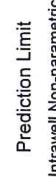
Santax™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Background Data Summary: Mean=0.1277, Std. Dev.=0.08528, n=40, 10% NDs. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9539, critical = 0.919. Kappa = .592 (n=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009883. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner). No background outliers were found.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

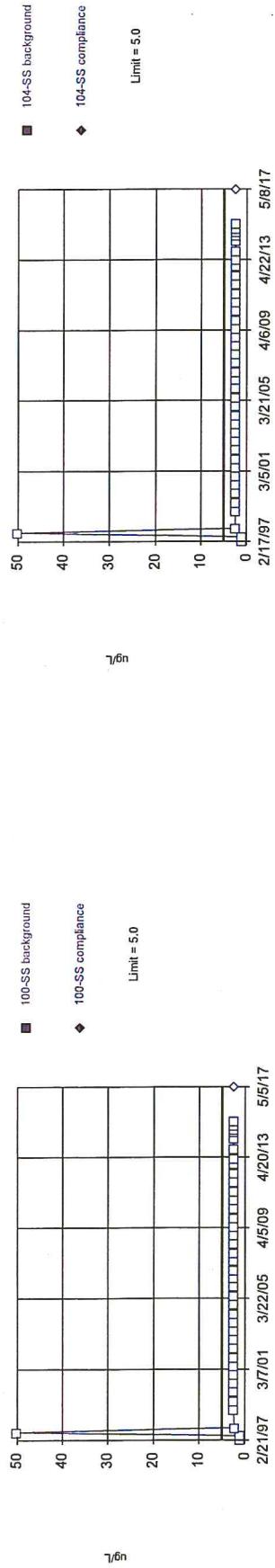


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 70% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

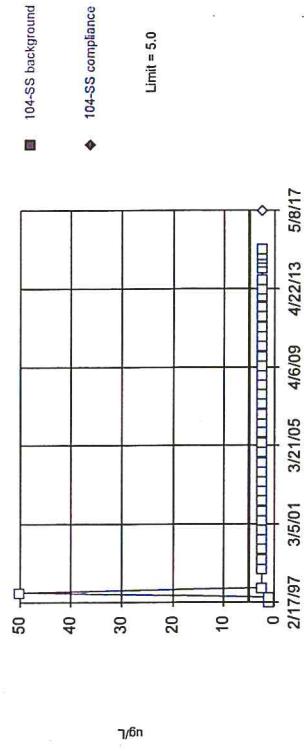
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit



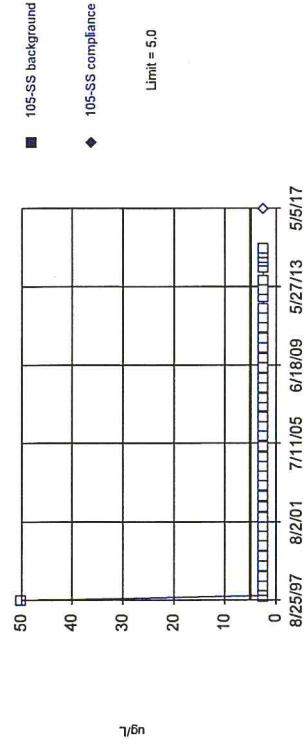
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

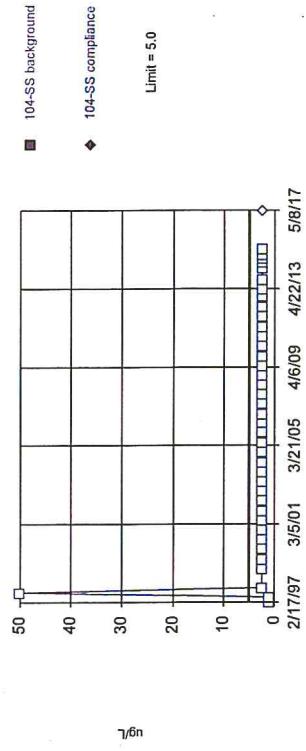
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit



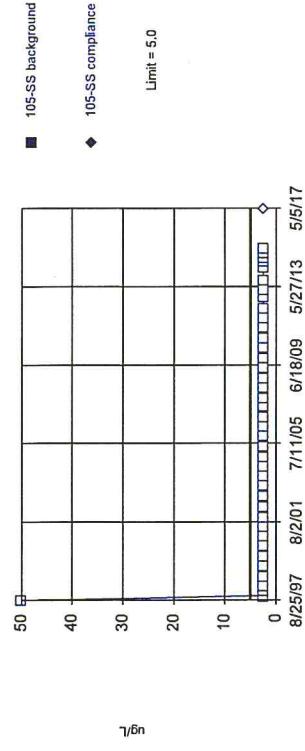
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

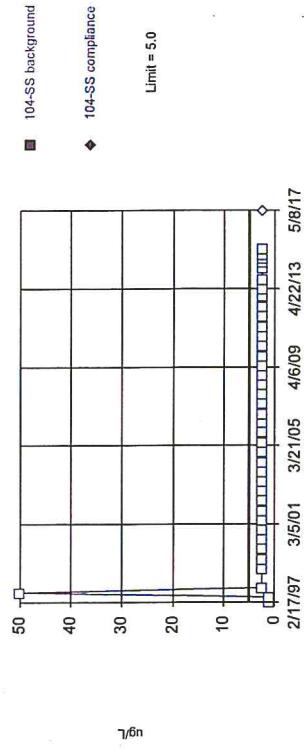
Prediction Limit
Intrawell Non-parametric
Within Limit



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.

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

Prediction Limit
Intrawell Non-parametric
Within Limit



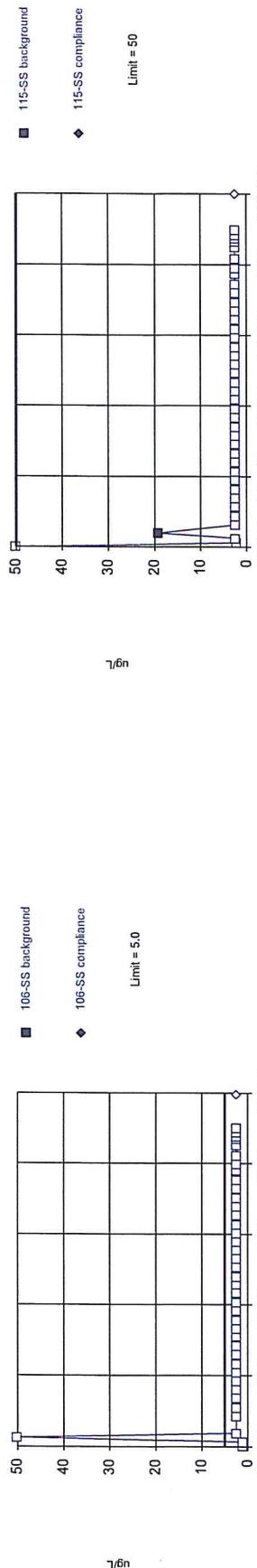
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 80% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

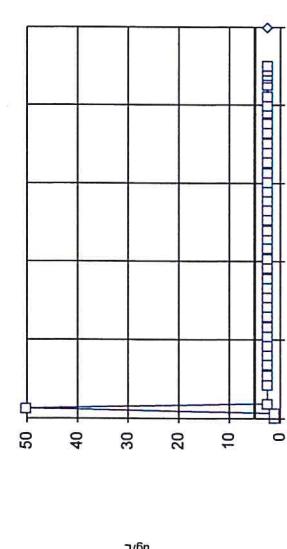


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

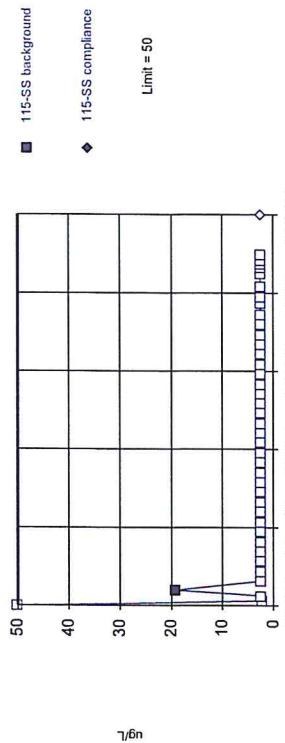


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

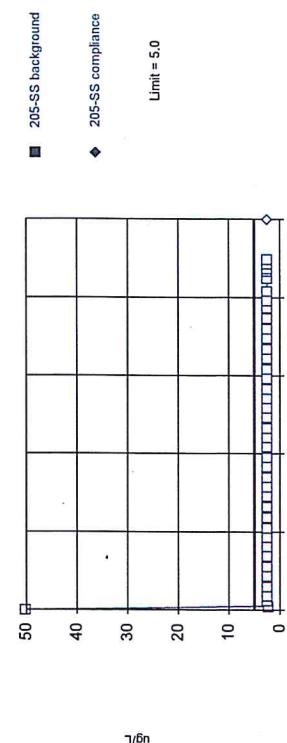


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

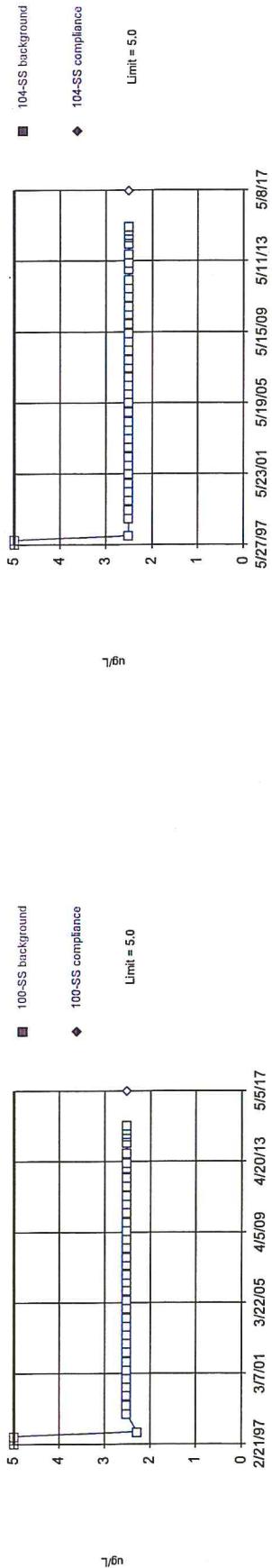


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Selenium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

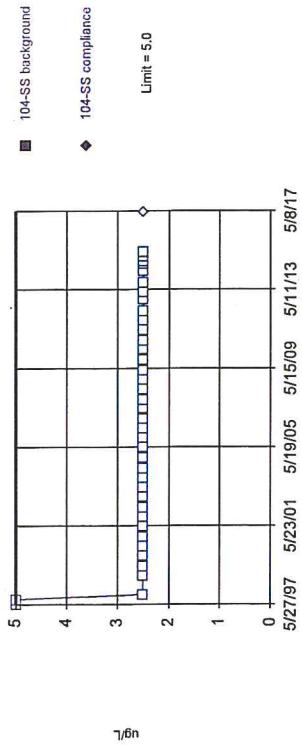
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

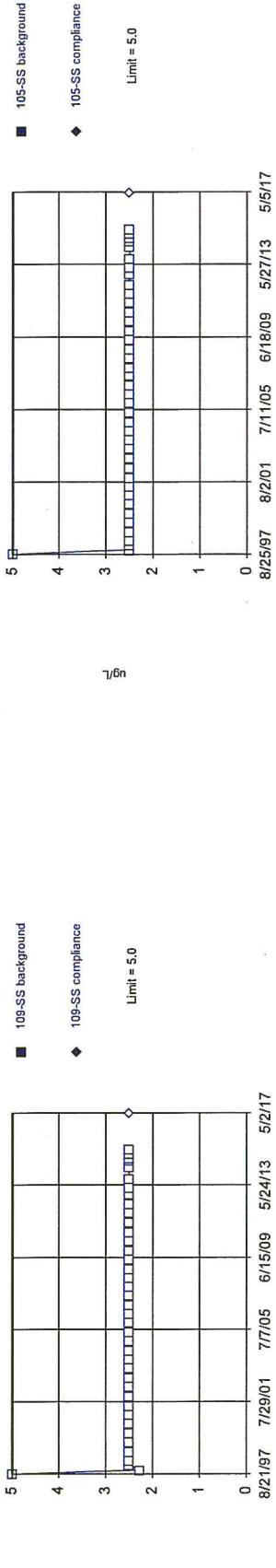


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 39) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.00468. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



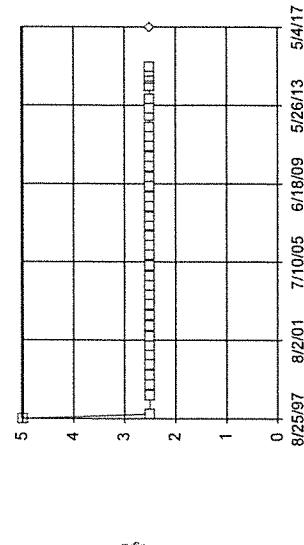
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

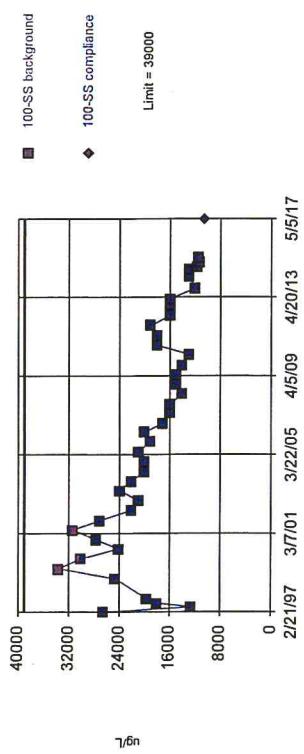
Constituent: Silver Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Silver Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santos™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

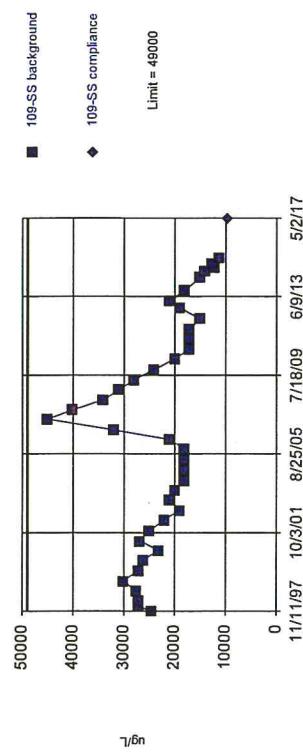
Prediction Limit
Intrawell Non-parametric





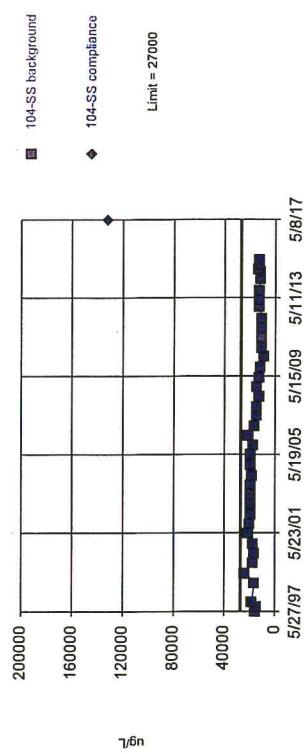
Background Data Summary (based on natural log transformation): Mean=9,808, Std. Dev.=0,295, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9551, critical = 0.917. Kappa = 2,392 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



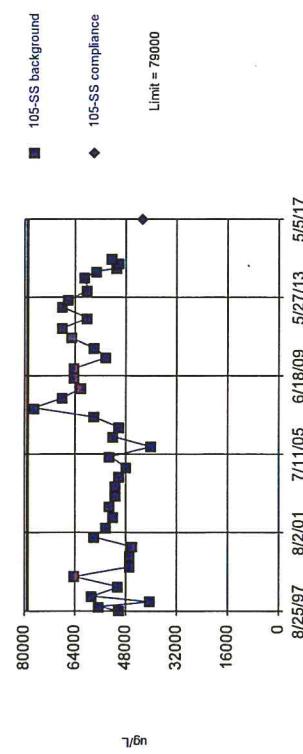
Background Data Summary (based on natural log transformation): Mean=9,3165, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9835, critical = 0.917. Kappa = 2,601 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data. One background outlier was removed: 68000 (8/21/1997).

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on natural log transformation): Mean=9,617, Std. Dev.=0,2257, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9851, critical = 0.917. Kappa = 2,601 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 34800 (2/17/1997).

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on cube root transformation): Mean=38,14, Std. Dev.=1,825, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9771, critical = 0.919. Kappa = 2,592 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

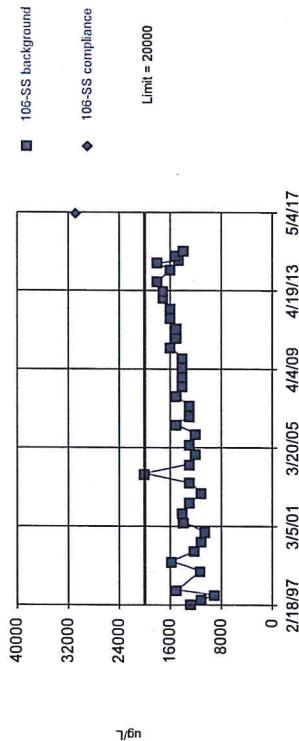
Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

Exceeds Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=118.3, Std. Dev.=9.566, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9881, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 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 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

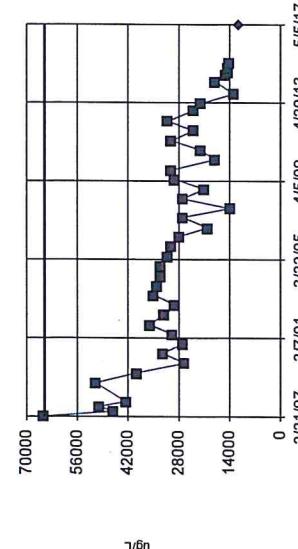
Within Limit
Intrawell Parametric

Prediction Limit
Intrawell Parametric

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Intrawell Parametric

Prediction Limit
Intrawell Parametric

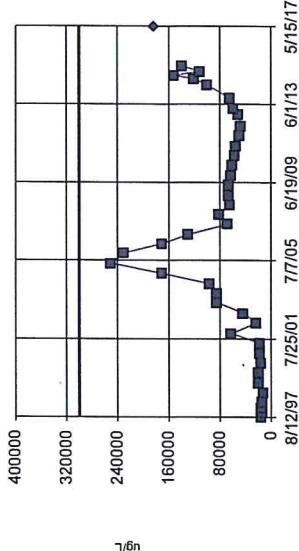


Background Data Summary (based on cube root transformation): Mean=30.24, Std. Dev.=3.85, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.6625, critical = 0.619. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

Exceeds Limit
Intrawell Parametric

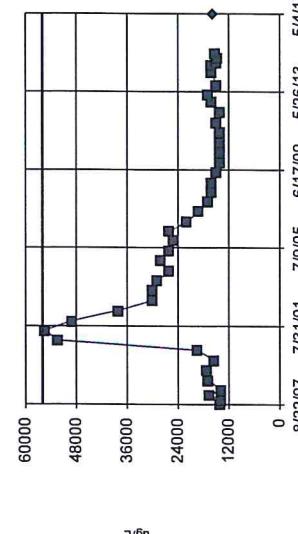


Background Data Summary (based on cube root transformation): Mean=39.3, Std. Dev.=10.78, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.5366, critical = 0.519. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Non-parametric

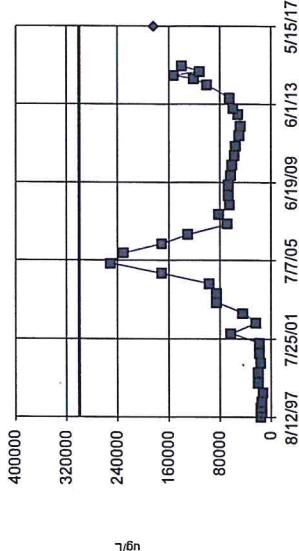


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

Exceeds Limit
Intrawell Parametric



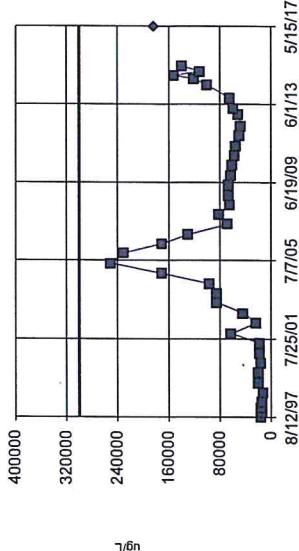
Background Data Summary (based on cube root transformation): Mean=39.3, Std. Dev.=10.78, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.5366, critical = 0.519. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

Exceeds Limit
Intrawell Parametric



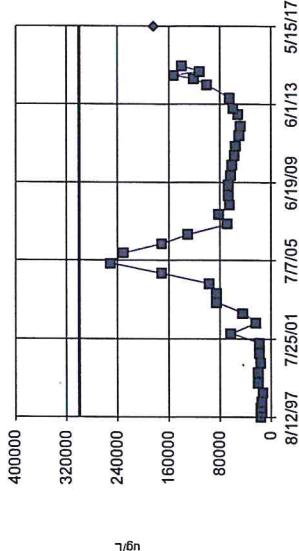
Background Data Summary (based on cube root transformation): Mean=39.3, Std. Dev.=10.78, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.5366, critical = 0.519. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric

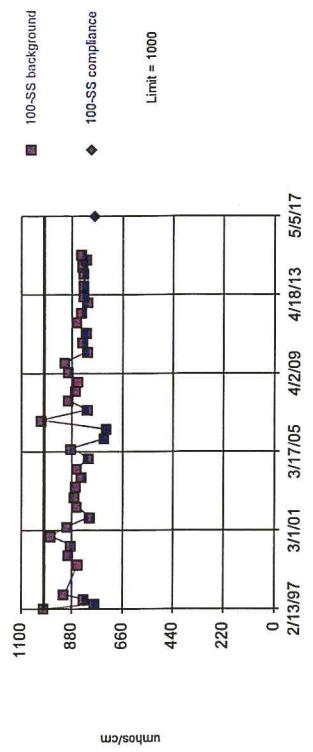
Exceeds Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=39.3, Std. Dev.=10.78, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.5366, critical = 0.519. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0000963. EPA 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 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

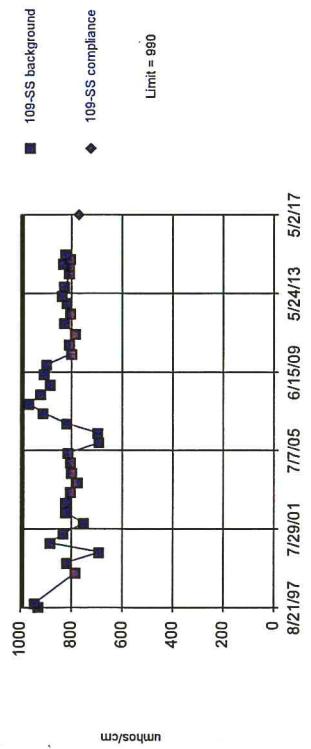
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.746, Std. Dev.=0.06655, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.945, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 1080 (11/12/1998).

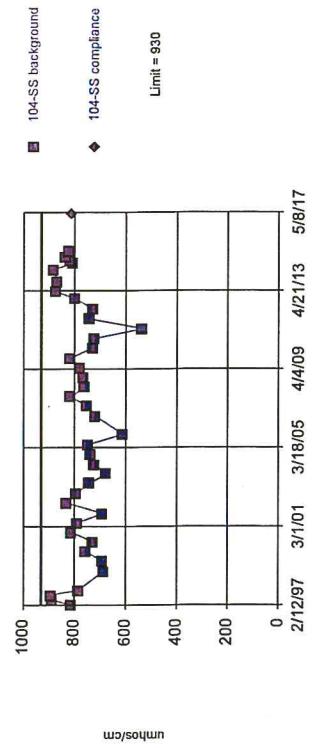
Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=824, Std. Dev.=63.94, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Three background outliers were removed: 1270 (2/13/1998); 1260 (5/29/1998), 1190 (11/14/1998).

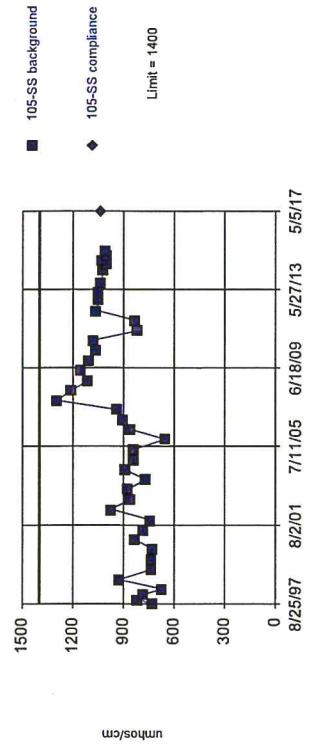
Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on cube transformation): Mean=4.668, Std. Dev.=1.368, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 468 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

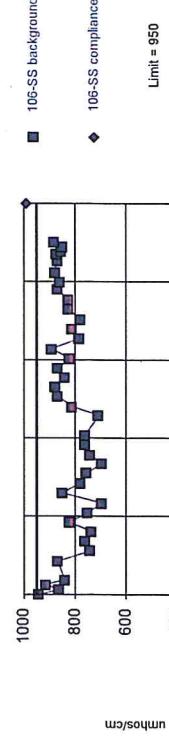
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.811, Std. Dev.=0.1679, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

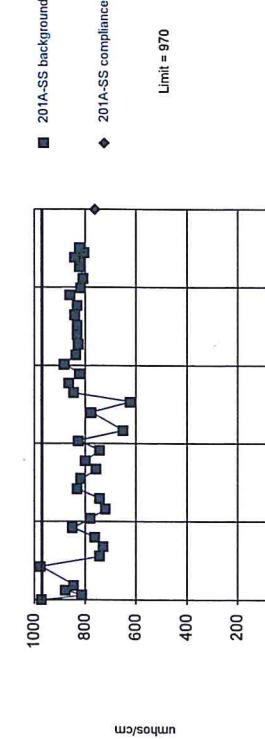
Prediction Limit
Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=4.6e11, Std. Dev.=1.3e11, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9572, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 595 (11/29/2005).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

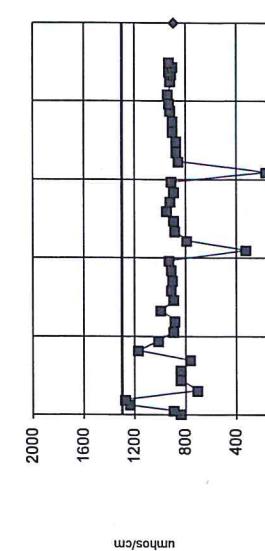
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=660296, Std. Dev.=108124, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9237, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 465 (5/25/2006).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric

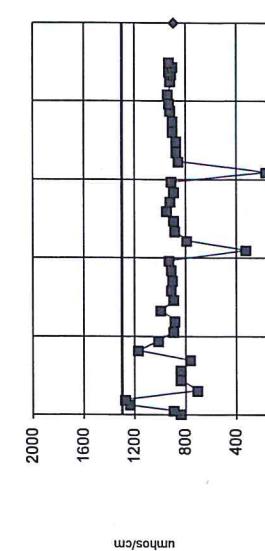


Background Data Summary (based on natural log transformation): Mean=7.338, Std. Dev.=0.3579, n=40, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9301, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 or 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1889 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Prediction Limit
Intrawell Non-parametric



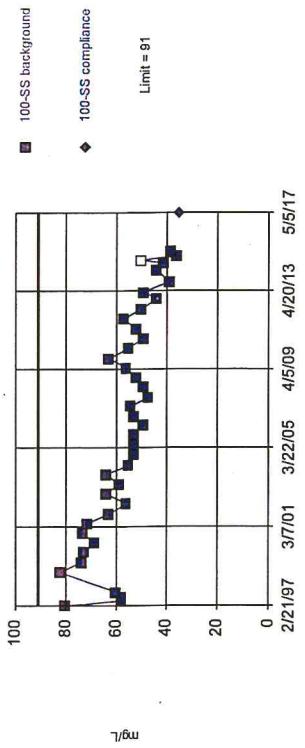
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sulfate™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric
Within Limit

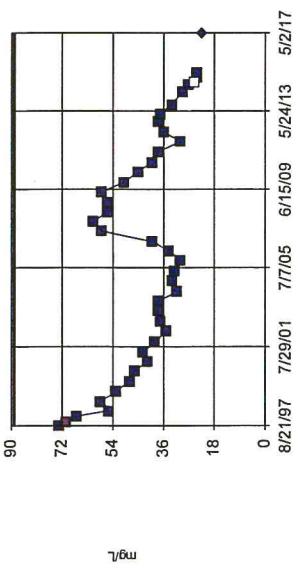


Background Data Summary (based on natural log transformation): Mean=4.009, Std. Dev.=0.1952, n=40, 2.5% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.976, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sulfate™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric
Within Limit

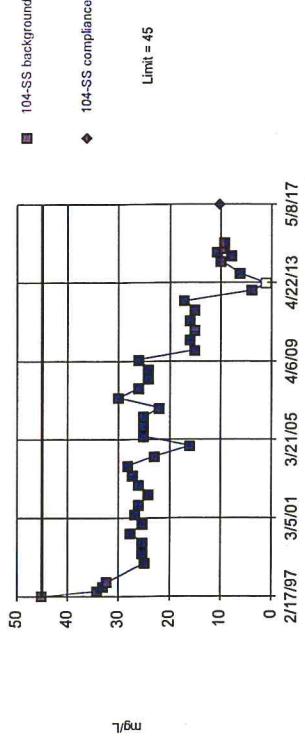


Background Data Summary (based on natural log transformation): Mean=3.71, Std. Dev.=0.2988, n=40, 2.5% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9625, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sulfate™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric
Within Limit

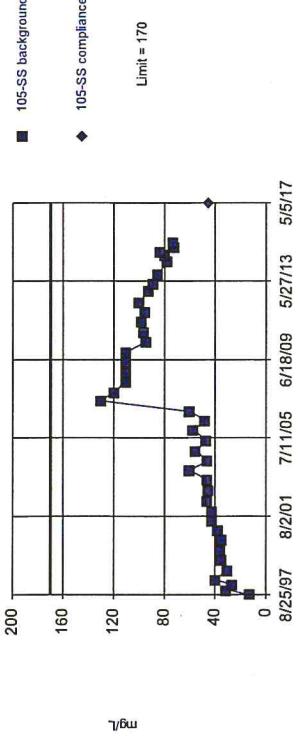


Background Data Summary: Mean=21.19, Std. Dev.=9.203, n=40, 2.5% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.962, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sulfate™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

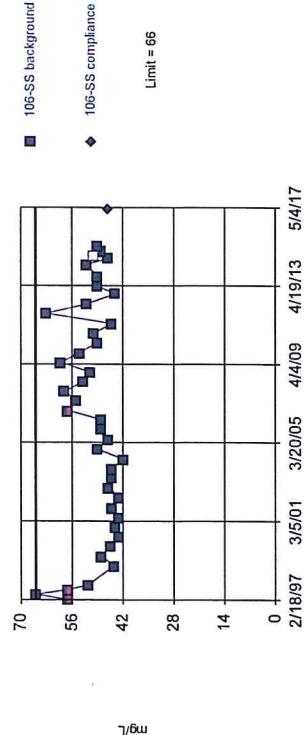
Prediction Limit
Intrawell Parametric
Within Limit



Background Data Summary (based on square root transformation): Mean=8, Std. Dev.=1.922, n=40, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.952, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

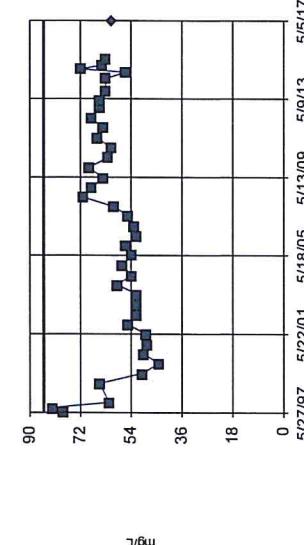
Prediction Limit
Intrawell Parametric
Within Limit



Background Data Summary (based on natural log transformation): Mean=3.901, Std. Dev.=0.1104, n=40, 2.5% NDs. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.9319. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

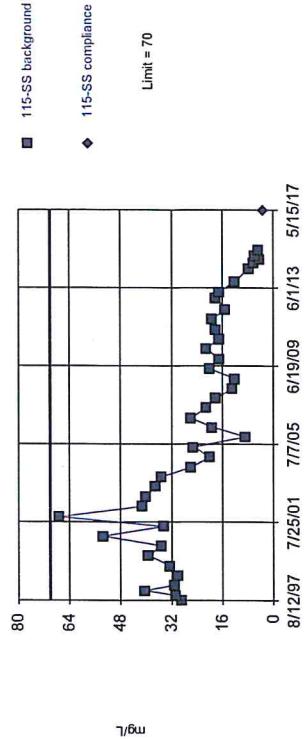
Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric
Within Limit



Background Data Summary (based on natural log transformation): Mean=4.087, Std. Dev.=0.1382, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9805, critical = 0.9171. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1987).

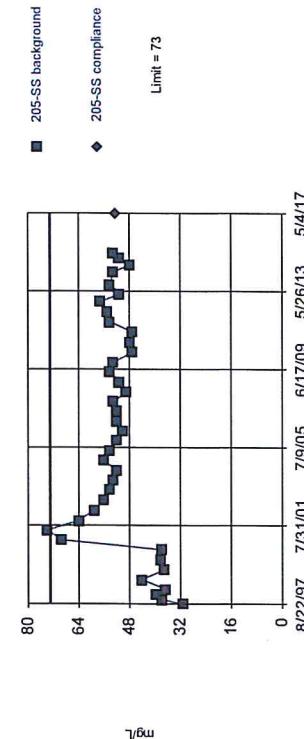
Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on square root transformation): Mean=4.715, Std. Dev.=1.41, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9377, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

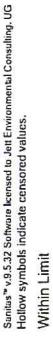
Prediction Limit
Intrawell Parametric
Within Limit



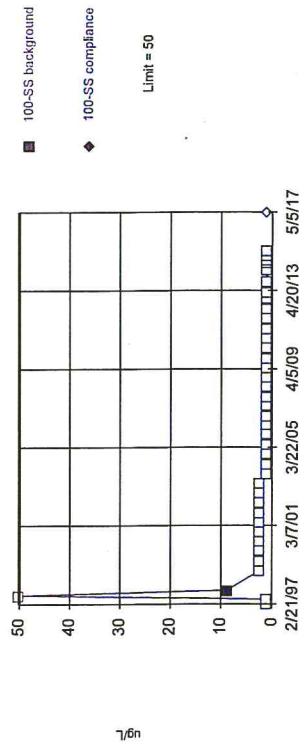
Background Data Summary: Mean=50.72, Std. Dev.=8.593, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 109 (11/20/2014).

Constituent: Sulfate Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.



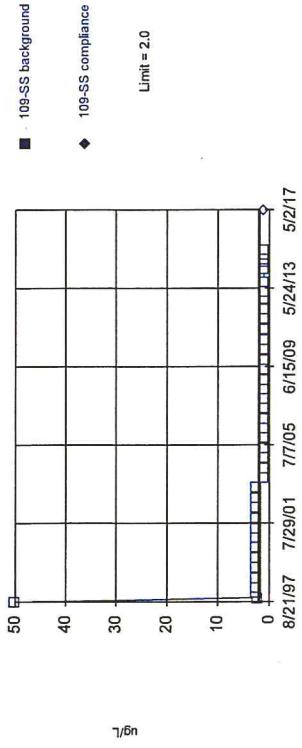
Prediction Limit
Intrawell Non-parametric



Now χ^2 -parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest $\alpha = 0.04602$. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

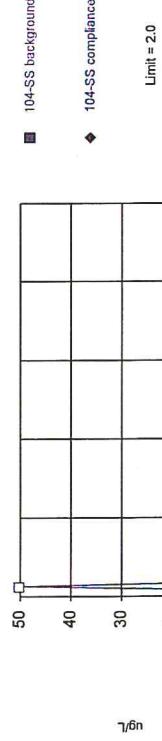
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgerton I.E. Client: BSI Date: Bridgerton I.E.

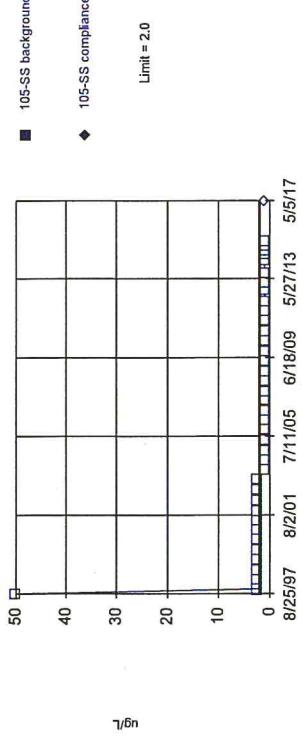
Within Limit
Sunitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton HF Client: BSJ Data: Bridgeton HF

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

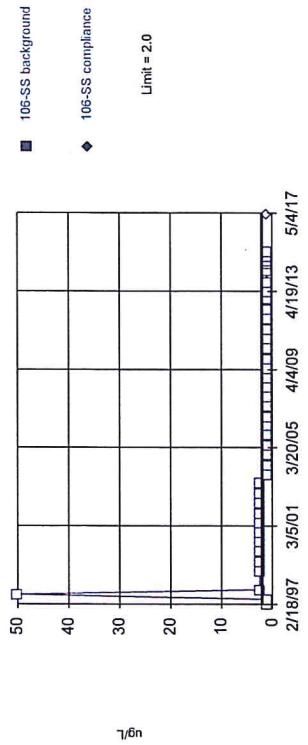


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Welch-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton, NJ Client: DSI Date: Bridgeton, NJ

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

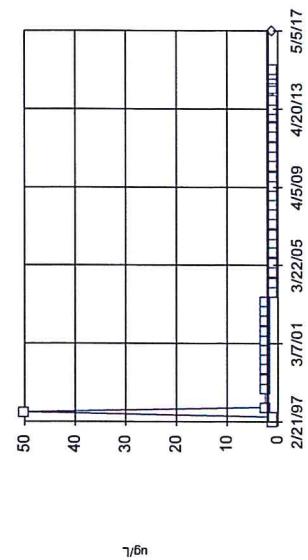


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

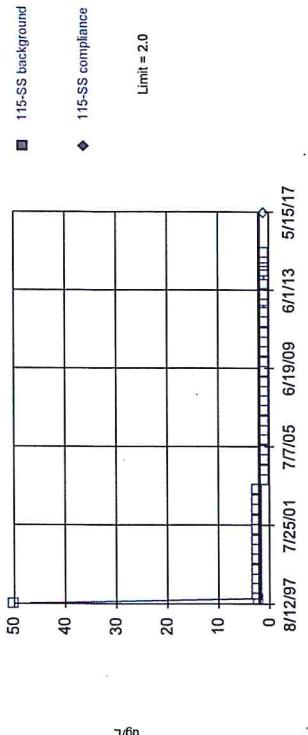


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

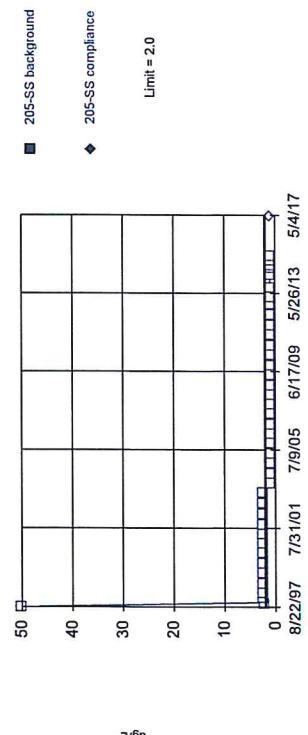


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

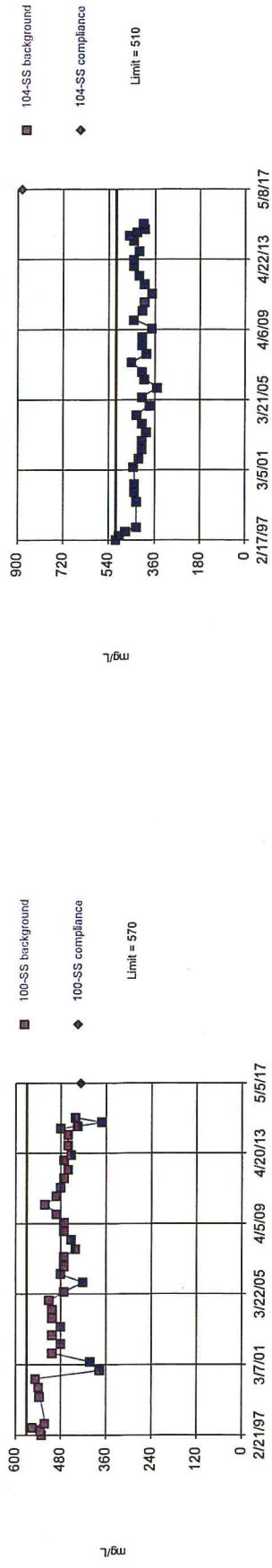
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

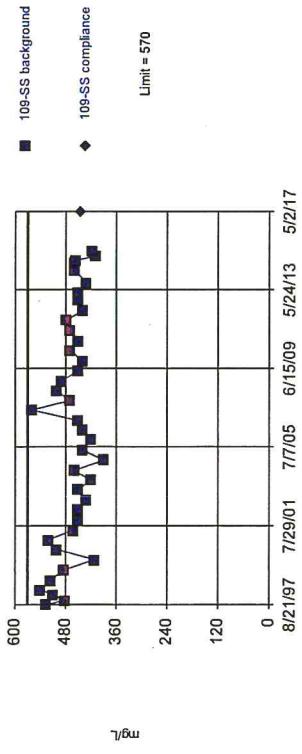
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.1e8, Std. Dev.=2.3e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 748 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

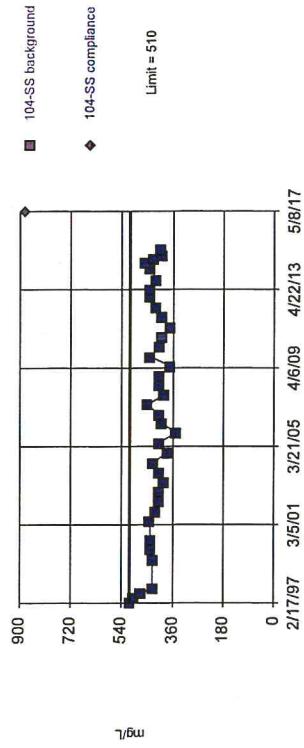
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.134, Std. Dev.=0.07956, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9735, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

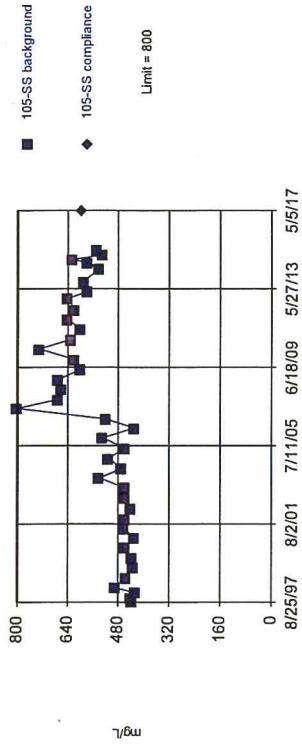
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.039, Std. Dev.=0.07516, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9722, critical = 0.916. Kappa = 2.611 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. Two background outliers were removed: 664 (11/11/1998); 257 (11/13/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

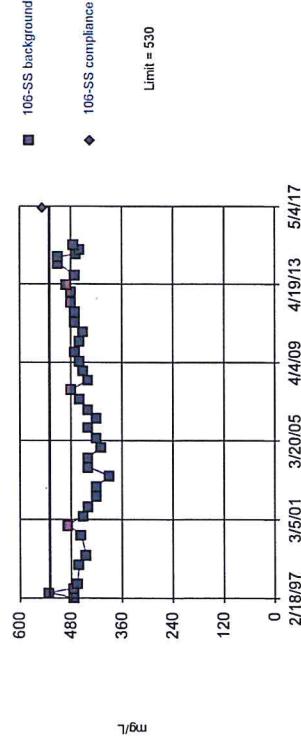
Within Limit
Prediction Limit
Intrawell Non-parametric



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

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

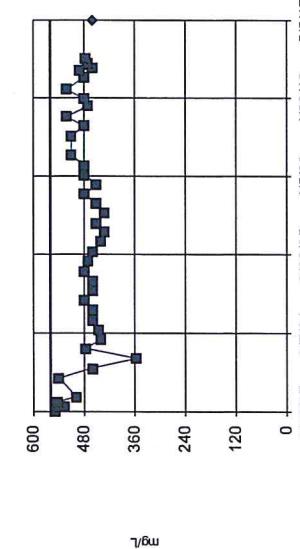
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=21.4, Std. Dev.=0.6626, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.979, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 244 (1/19/1999).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Client: RSI Data: Bridgeton LF

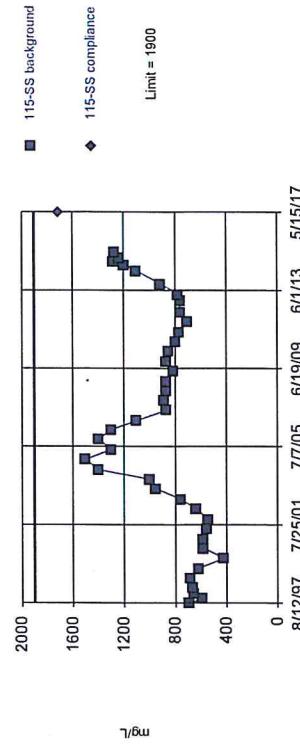
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=226671, Std. Dev.=33845, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 820 (11/10/2010).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Client: RSI Data: Bridgeton LF

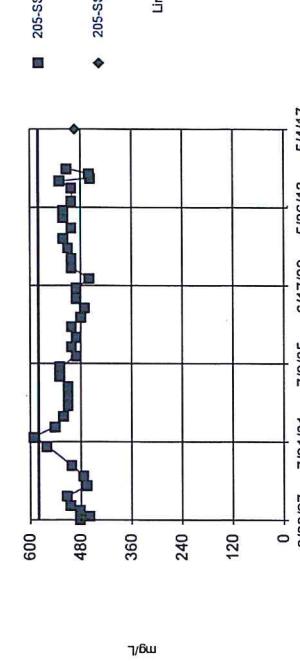
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.742, Std. Dev.=0.3108, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.919. Kappa = 2.592 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 2:32 PM
Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



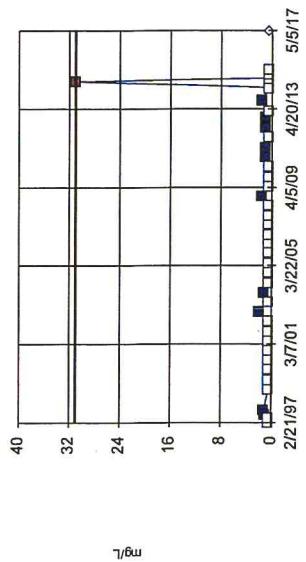
Background Data Summary (based on natural log transformation): Mean=6.217, Std. Dev.=0.05445, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9584, critical = 0.917. Kappa = 2.601 (c=34, w=8, 1 or 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 611 (11/14/2000).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:32 PM
Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

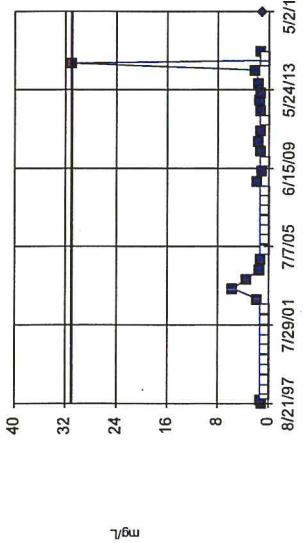


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 52.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

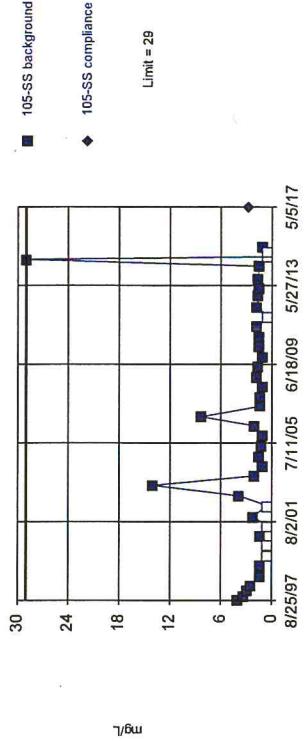


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 47.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

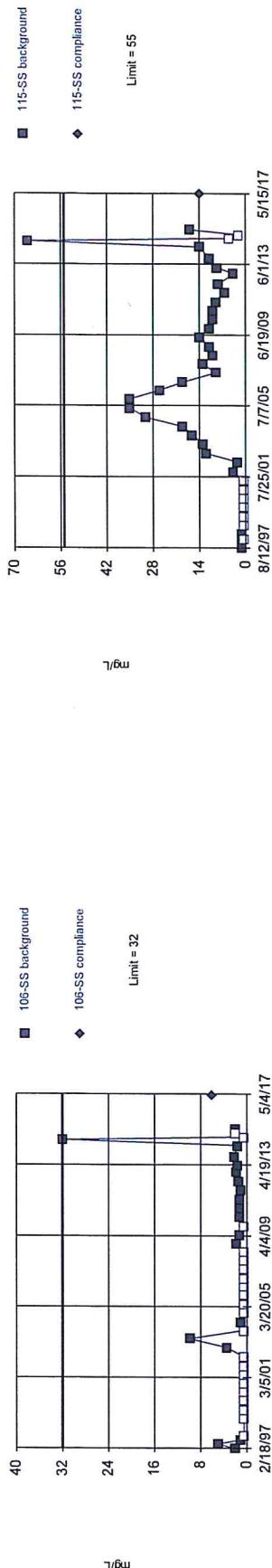


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 17.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

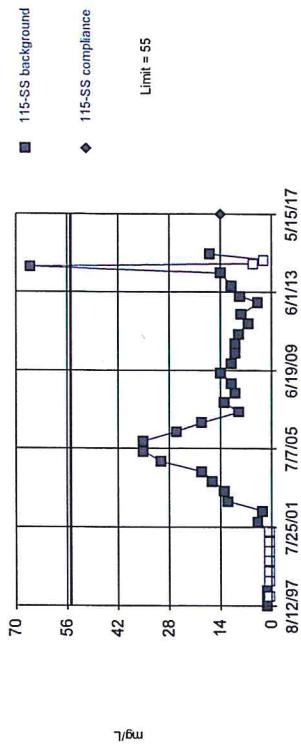
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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

Prediction Limit
Intrawell Parametric
Within Limit



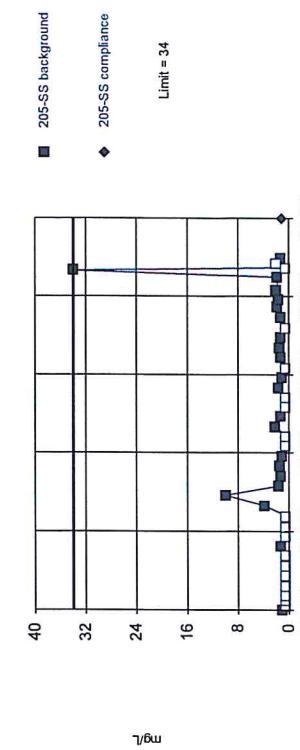
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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

Prediction Limit
Intrawell Parametric
Within Limit



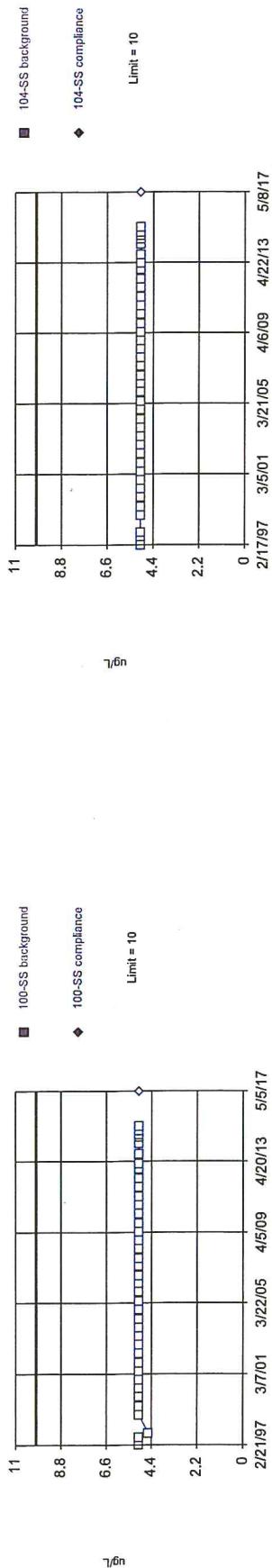
Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

**Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.**

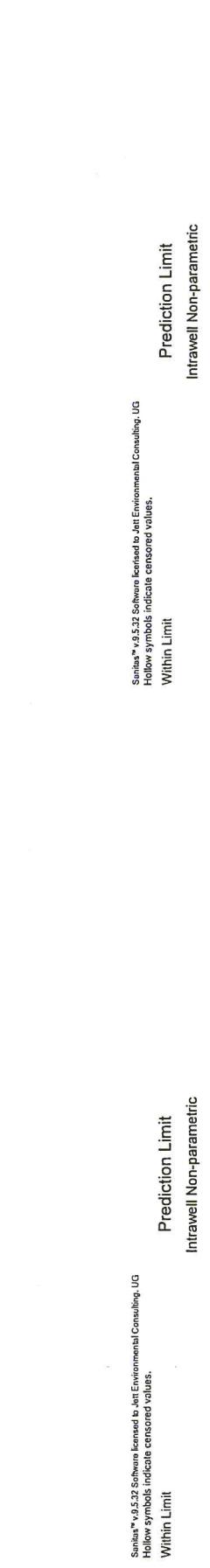


Prediction Limit
Intrawell Non-parametric

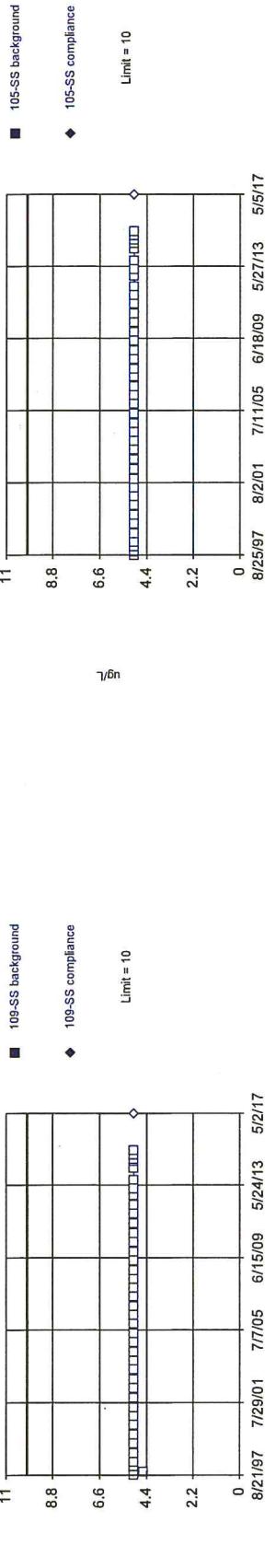


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Wall-constituent pair annual alpha = 0.004602. Individual companion alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Bridgerton LF Client: RSI Data: Bridgerton LF



■ 109-SS background



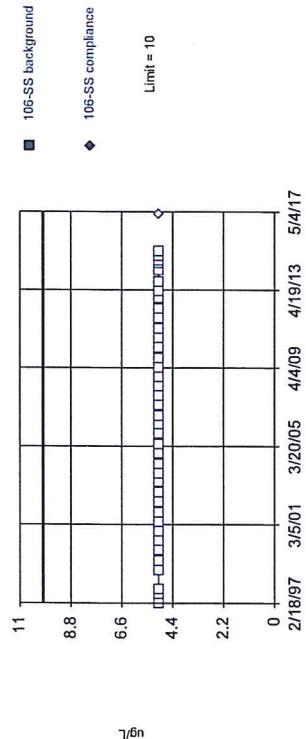
Non-parametric test used in all of parametric prediction limit because censored data exceeded 50%. All background ($n = 40$) were censored; limit is most recent reporting limit. Well-consistent pair annual alpha = 0.044602. Individual comparison alpha = 0.01152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Detector 1 F Client DCL Date 07/11/2017

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM

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

Prediction Limit
Intrawell Non-parametric
Within Limit



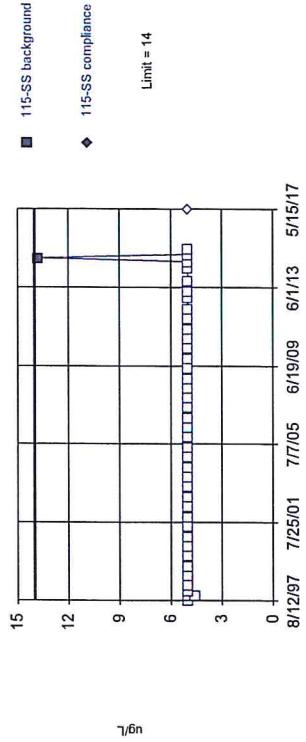
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

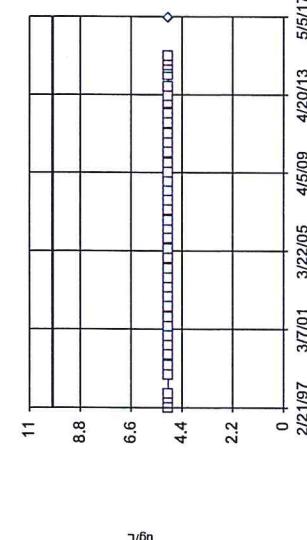
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

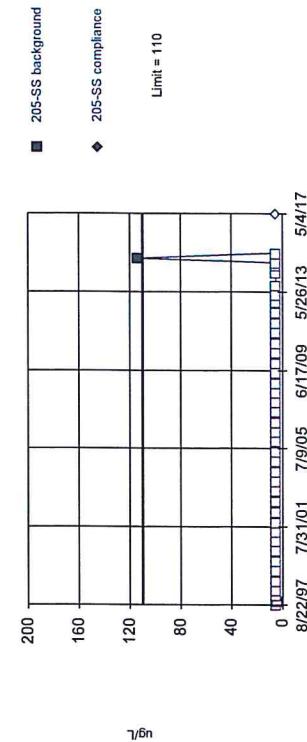
Prediction Limit
Intrawell Non-parametric
Within Limit



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

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

Prediction Limit
Intrawell Non-parametric
Within Limit



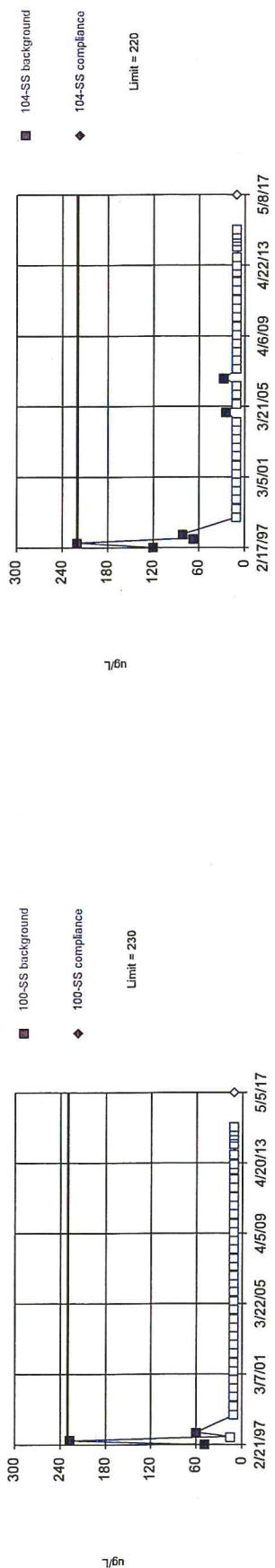
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Vanadium Total Analysis Run 7/11/2017 2:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 92.3% NDs. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

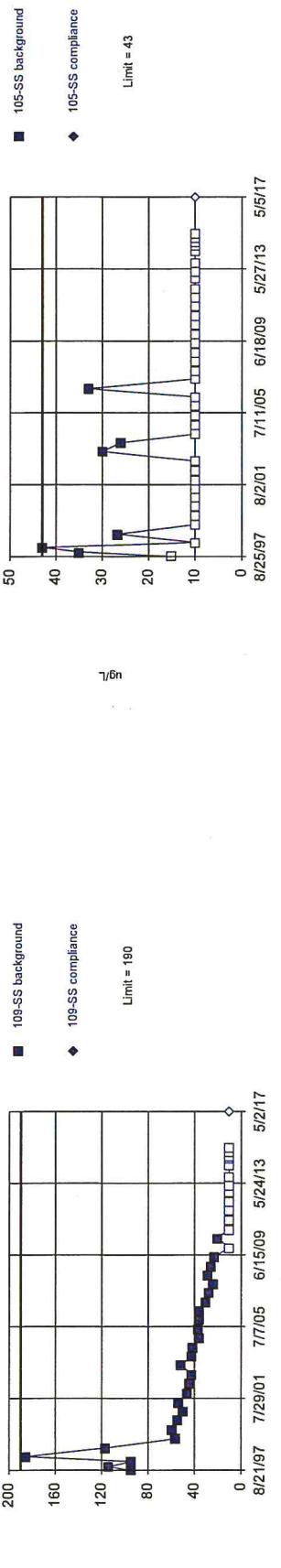
Prediction Limit
Intrawell Non-parametric
Within Limit



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 = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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 = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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 = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Prediction Limit

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDS	ND Adi.	Printed 7/11/2017, 10:58 PM	Client: RSI	Data: Bridgeton LF	Bridgeton LF	Method
												n/a	n/a	n/a	n/a	
Arsenic Total (ug/L)	115-SS	19	n/a	2/17/2017	6.2	No	39	n/a	56.41	n/a	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	4.584	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	n/a	0.00008608	Param Intra 1 of 2		
Barium Total (ug/L)	205-SS	180	n/a	2/7/2017	141	No	39	n/a	0	n/a	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	1.768	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	1800	n/a	2/17/2017	467	No	20	n/a	55	n/a	n/a	n/a	0.004219	NP Intra (NDS) 1 of 2		
Calcium Total (ug/L)	106-SS	87000	n/a	2/9/2017	106000	Yes	11	11.08	0.07786	0	None	In(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	In(x)	0.00008608	Param Intra 1 of 2		
Calcium Total (ug/L)	110-SS	260000	n/a	2/7/2017	224000	No	20	8.6615	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	In(x)	0.00008608	Param Intra 1 of 2		
Calcium Total (ug/L)	201-AS-S	100000	n/a	2/17/2017	94900	No	22	85186	6232	0	None	n/a	0.00008608	Param Intra 1 of 2		
Calcium Total (ug/L)	205-SS	100000	n/a	5/4/2017	100000	No	27	n/a	0	n/a	n/a	n/a	0.002475	NP Intra (normality) 1 of 2		
Chloride (mg/L)	104-SS	5.0	n/a	5/8/2017	202	Yes	33	n/a	n/a	48.48	n/a	n/a	0.001688	NP Intra (normality) 1 of 2		
Chloride (mg/L)	105-SS	25	n/a	5/5/2017	64.9	Yes	7	2.586	0.1213	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Chloride (mg/L)	106-SS	17	n/a	5/4/2017	43.6	Yes	29	n/a	0	n/a	n/a	n/a	0.002452	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	n/a	0.00008608	Param Intra 1 of 2		
Chloride (mg/L)	115-SS	670	n/a	5/15/2017	515	No	37	13.59	4.687	0	None	n/a	0.00009683	Param Intra 1 of 2		
Chloride (mg/L)	201A-SS	4.0	n/a	5/5/2017	3.8	No	24	n/a	50	n/a	n/a	n/a	0.003083	NP Intra (normality) 1 of 2		
Chloride (mg/L)	205-SS	50	n/a	5/4/2017	32	No	32	2.998	0.2584	0	None	x^(1/3)	0.00009683	Param Intra 1 of 2		
Fluoride (mg/L)	108-SS	2.6	n/a	5/2/2017	2.3	No	23	4.319	0.8498	0	None	x^2	0.00009683	Param Intra 1 of 2		
Hardness Total (mg/L)	105-SS	510	n/a	5/5/2017	499	No	15	5.79	0.1385	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Hardness Total (mg/L)	105-SS	500	n/a	5/4/2017	487	No	29	20.59	0.6924	0	None	sqr(x)	0.00009683	Param Intra 1 of 2		
Hardness Total (mg/L)	110-SS	1000	n/a	2/7/2017	895	No	19	6.288	1.8e8	0	None	x^3	0.00008608	Param Intra 1 of 2		
Hardness Total (mg/L)	115-SS	1500	n/a	5/15/2017	977	No	35	6.483	0.3251	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Hardness Total (mg/L)	201A-SS	500	n/a	5/5/2017	422	No	21	19.72	0.9201	0	None	sqr(x)	0.00009683	Param Intra 1 of 2		
Hardness Total (mg/L)	205-SS	520	n/a	5/4/2017	480	No	23	8.0815	3.9e15	0	None	x^6	0.00009683	Param Intra 1 of 2		
Iron Total (ug/L)	106-SS	1400	n/a	5/4/2017	2440	Yes	26	5.605	0.5835	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Iron Total (ug/L)	115-SS	7200	n/a	5/15/2017	3010	No	24	n/a	0	n/a	n/a	n/a	0.003083	NP Intra (normality) 1 of 2		
Iron Total (ug/L)	104-SS	55000	n/a	5/8/2017	59600	Yes	32	1.1e14	3.0e13	0	None	x^3	0.00009683	Param Intra 1 of 2		
Magnesium Total (ug/L)	105-SS	47000	n/a	5/5/2017	56000	Yes	11	10.46	0.07764	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Magnesium Total (ug/L)	106-SS	54000	n/a	5/4/2017	52300	No	25	10.69	0.07281	0	None	In(x)	0.00009683	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	In(x)	0.00008608	Param Intra 1 of 2		
Magnesium Total (ug/L)	115-SS	140000	n/a	5/15/2017	104000	No	37	11.23	0.2353	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Magnesium Total (ug/L)	201A-SS	51000	n/a	5/5/2017	45300	No	13	10.57	0.08112	0	None	In(x)	0.00009683	Param Intra 1 of 2		
Magnesium Total (ug/L)	205-SS	64000	n/a	5/4/2017	55600	No	17	224	9.563	0	None	sqr(x)	0.00009683	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	5/15/2017	71.1	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	5/5/2017	0.35	Yes	27	n/a	n/a	66.67	n/a	n/a	0.002475	NP Intra (NDS) 1 of 2		
pH [Field] (su)	104-SS	8.5	6.2	5/8/2017	6.5	No	35	1.983	0.05625	0	None	In(x)	0.00004842	Param Intra 1 of 2		
pH [Field] (su)	105-SS	8.3	6.7	5/5/2017	6.98	No	32	2.012	0.04035	0	None	In(x)	0.00004842	Param Intra 1 of 2		
pH [Field] (su)	106-SS	8.3	6.3	5/4/2017	6.93	No	31	1.98	0.05226	0	None	In(x)	0.00004842	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	In(x)	0.00004304	Param Intra 1 of 2		
pH [Field] (su)	201A-SS	8.5	6.4	5/5/2017	7.12	No	30	1.993	0.05282	0	None	In(x)	0.00004842	Param Intra 1 of 2		
pH [Field] (su)	205-SS	7.9	6.5	5/4/2017	7.03	No	32	1.969	0.03712	0	None	Kaplan-Meier	No	0.00004842	Param Intra 1 of 2	
Phosphorus Total (mg/L)	105-SS	0.25	n/a	5/5/2017	0.025ND	No	29	0.1025	0.05692	31.03	n/a	n/a	0.00009683	Param Intra 1 of 2		
Phosphorus Total (mg/L)	106-SS	0.38	n/a	5/4/2017	0.025ND	No	27	n/a	n/a	59.26	n/a	n/a	0.002475	NP Intra (NDS) 1 of 2		

Prediction Limit

Page 2

	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adi.	Transform	Alpha	Method
Constituent														
Phosphorus Total (mg/L)	115-SS	0.44	n/a	5/15/2017	0.26	No	31	0.2995	0.1361	12.9	None	sort(x)	0.000096683	Param Intra 1 of 2
Sodium Total (ug/L)	105-SS	80000	n/a	5/5/2017	45200	No	29	10.89	0.1457	0	None	In(x)	0.000096683	Param Intra 1 of 2
Sodium Total ug/L	106-SS	17000	n/a	5/4/2017	30800	Yes	26	1.7e8	4.0e7	0	None	x^2	0.000096683	Param Intra 1 of 2
Sodium Total (ug/L)	115-SS	450000	n/a	5/15/2017	183000	No	35	10.78	0.8461	0	None	In(x)	0.000096683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	105-SS	1100	n/a	5/5/2017	1038	No	22	813.5	87.59	0	None	No	0.000096683	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	0.000096683	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	115-SS	3500	n/a	5/15/2017	2890	No	36	7.284	0.335	0	None	In(x)	0.000096683	Param Intra 1 of 2
Sulfate (mg/L)	105-SS	47	n/a	5/5/2017	45.4	No	8	40346	14371	0	None	x^3	0.000096683	Param Intra 1 of 2
Sulfate (mg/L)	2014-SS	86	n/a	5/5/2017	60.9	No	37	4.083	0.141	0	None	In(x)	0.000096683	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	106-SS	540	n/a	5/6/2017	597	Yes	20	n/a	0	n/a	n/a	NP Intra (normality) 1 of 2	0.004219	NP Intra (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	115-SS	1800	n/a	5/15/2017	1710	No	37	6.71	0.3007	0	None	In(x)	0.000096683	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SS	32	n/a	5/4/2017	6	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	5/4/2017	1.1	No	34	n/a	n/a	47.06	n/a	n/a	0.001587	NP Intra (normality) 1 of 2

Printed 7/11/2017, 10:58 PM

Data: Bridgeeton LF

Client: RSI

Bridgeton LF

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Hollow symbols indicate censored values.

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

Within Limit
Prediction Limit
Intrawell Non-parametric

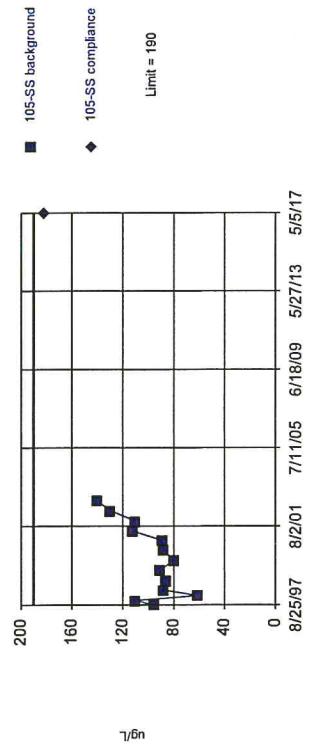


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 56.41% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 or 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 4:27 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Prediction Limit
Intrawell Parametric

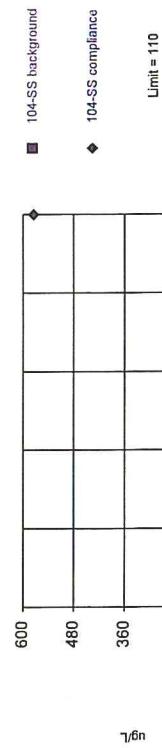


Background Data Summary (based on cube root transformation): Mean=4.594, Std. Dev.=0.3338, n=13. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9537, critical = 0.866. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Barium Total Analysis Run 7/11/2017 4:27 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Within Limit
Prediction Limit
Intrawell Parametric

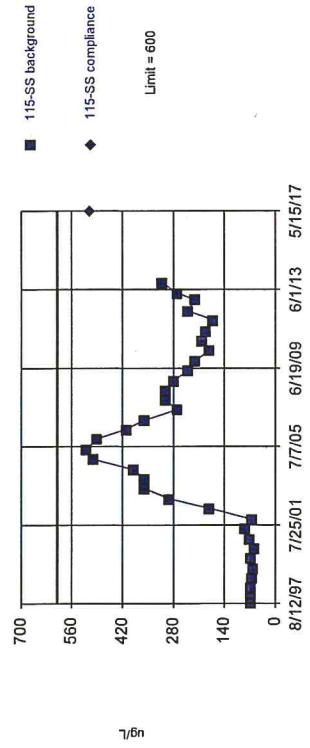


Background Data Summary (based on square transformation): Mean=80.75, Std. Dev.=174.3, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9677, critical = 0.912. Kappa = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 214 (2/17/1997).

Constituent: Barium Total Analysis Run 7/11/2017 4:27 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

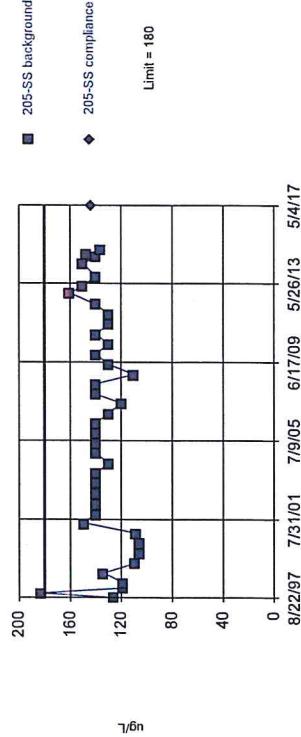
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=223, Std. Dev.=139.9, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9107, critical = 0.81. Kappa = 6.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 4:28 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

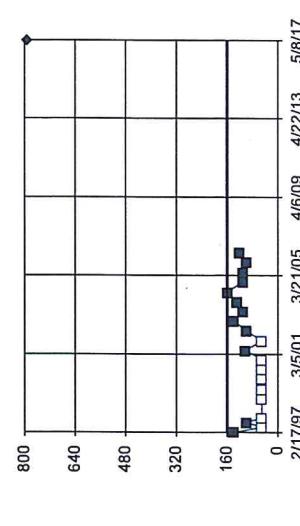
Within Limit
 Prediction Limit
 Intrawell Non-parametric



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 39 background values. Well-constituent pair annual alpha = 0.004468. 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 7/11/2017 4:28 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

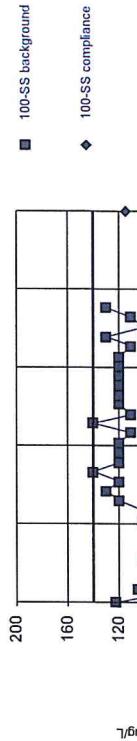
Prediction Limit
 Intrawell Non-parametric



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: Barium Total Analysis Run 7/11/2017 4:29 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

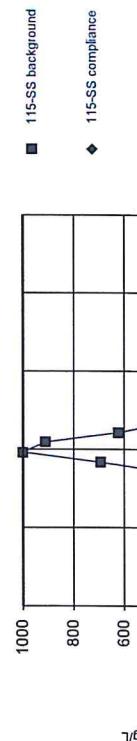
Within Limit
 Prediction Limit
 Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean= 1.78, Std. Dev.= -9.767, n=32, 12.5% NDs.
 Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9258, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00005683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 7/11/2017 4:29 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 30.5% NDs. Well-constituent pair annual alpha = 0.005668. Individual comparison alpha = 0.00142 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Boron Total Analysis Run 7/11/2017 4:30 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

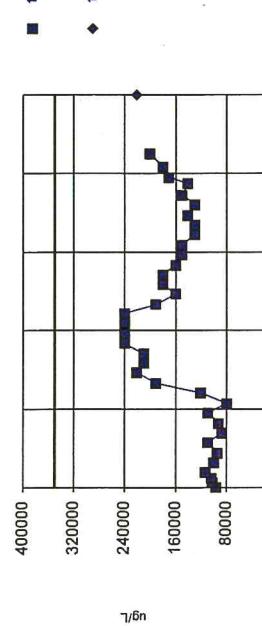
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation); Mean=11.08, Std. Dev.=0.07786, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8783, critical = 0.85. Kappa = 3.677 c=34, w=8, 1 or 2, event alpha = 0.026. Report alpha = 0.00096883. EPA 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 7/11/2017 4:30 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

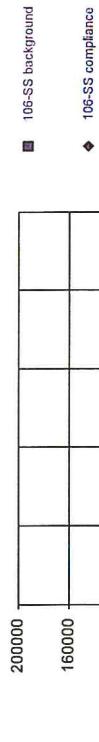
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation); Mean=11.89, Std. Dev.=0.3286, n=26. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9447, critical = 0.912. Kappa = 2.63 c=34, w=8, 1 or 2, event alpha = 0.026. Report alpha = 0.00096883. EPA 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 7/11/2017 4:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

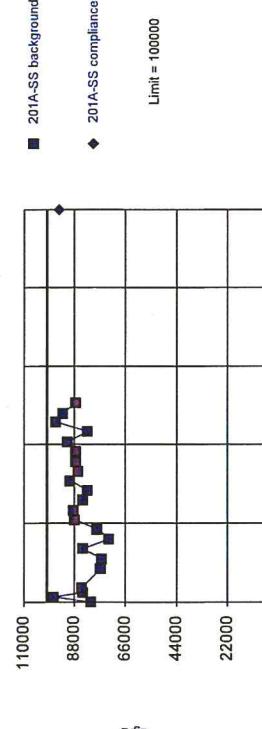
Within Limit
Intrawell Parametric



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 = 0.988. Kappa = 2.713 c=34, w=8, 1 or 2, event alpha = 0.026. Report alpha = 0.00096883. Rosner's outlier test was performed on the background data. Two background outliers were removed: 60000 (8/25/1987); 90000 (11/19/1989).

Constituent: Calcium Total Analysis Run 7/11/2017 4:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within 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 = 2.888 c=34, w=8, 1 or 2, event alpha = 0.026. Report alpha = 0.00096883. EPA 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 7/11/2017 4:31 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

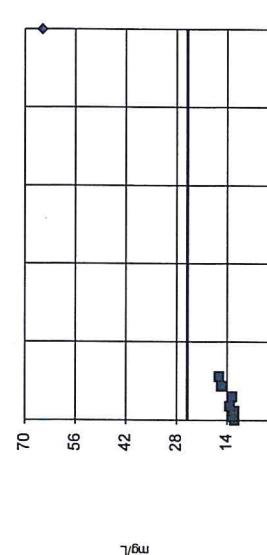
Prediction Limit
Intrawell Non-parametric



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 7/11/2017 10:29 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

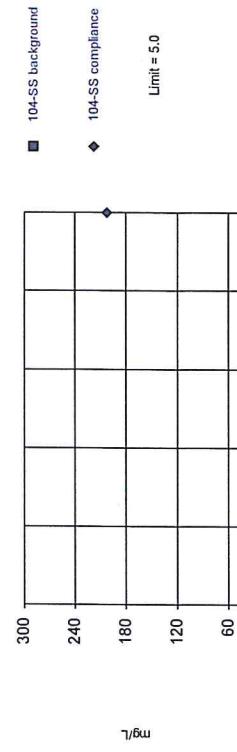
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2.886, Std. Dev.=0.1213, n=7. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.8516, critical = 0.838. Kappa = 5.312 (c=34, w=8, 1 of 2, event alpha = 0.028). Report alpha = 0.00009683, EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 7/11/2017 10:33 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

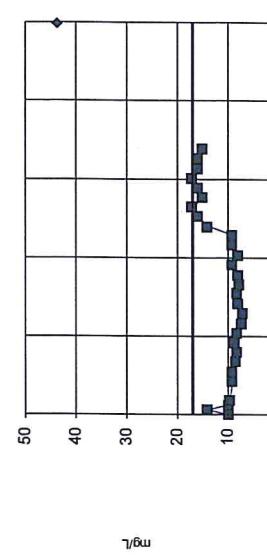
Prediction Limit
Intrawell Non-parametric



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. 48.4% 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 7/11/2017 10:32 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

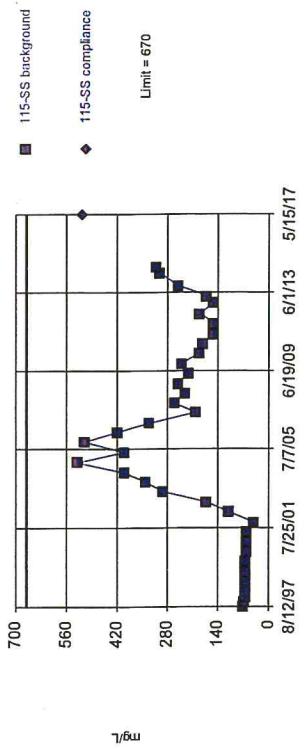
Prediction Limit
Intrawell Non-parametric



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 = 0.00838. Individual comparison alpha = 0.002152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

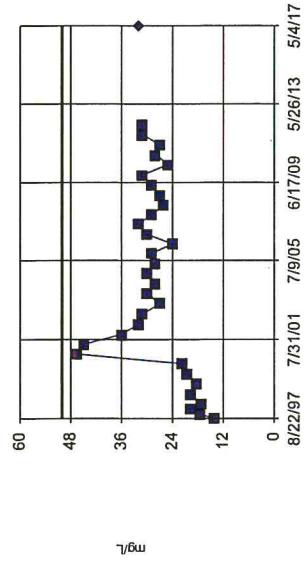
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Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



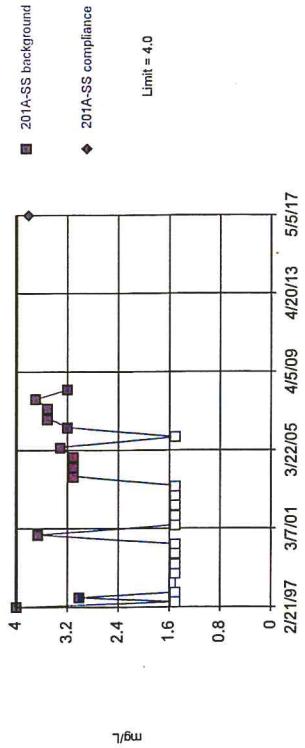
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Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



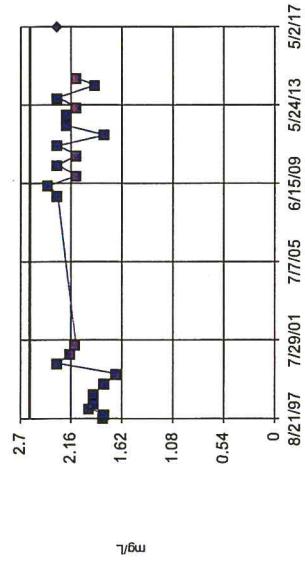
Constituent: Chloride Analysis Run 7/11/2017 10:34 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Non-parametric



Constituent: Chloride Analysis Run 7/11/2017 10:34 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



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Within Limit

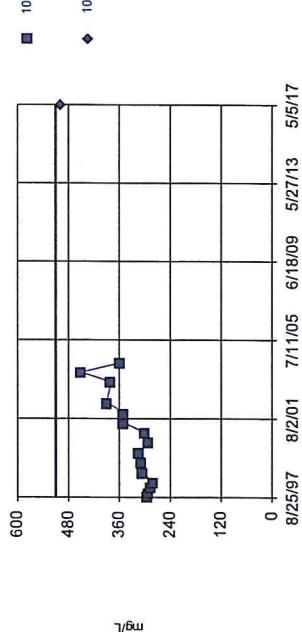
Background Data Summary (based on square transformation): Mean=4.319, Std. Dev.=0.8498, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.9263, critical = 0.881. Kappa = 2.339 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Chloride Analysis Run 7/11/2017 10:35 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Non-parametric

Constituent: Fluoride Analysis Run 7/11/2017 10:35 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric

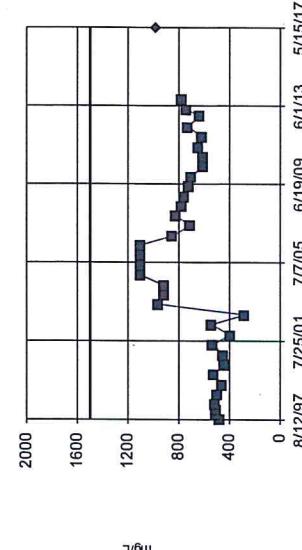


Background Data Summary (based on natural log transformation): Mean=5.79, Std. Dev.=0.1385, n=15. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8889, critical = 0.8811. Kappa = 3.211 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 130 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 10:36 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

Prediction Limit
Intrawell Parametric

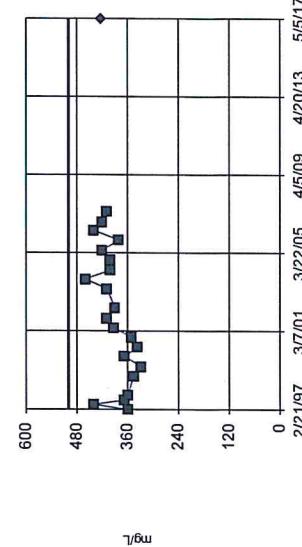


Background Data Summary (based on natural log transformation): Mean=6.493, Std. Dev.=0.3251, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9662, critical = 0.91. Kappa = 2.639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1988 outlier screening was performed on the background data. One established suspected outliers for Dixon's/Rosner's. No background outliers were found.

Constituent: Hardness Total Analysis Run 7/11/2017 10:37 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit

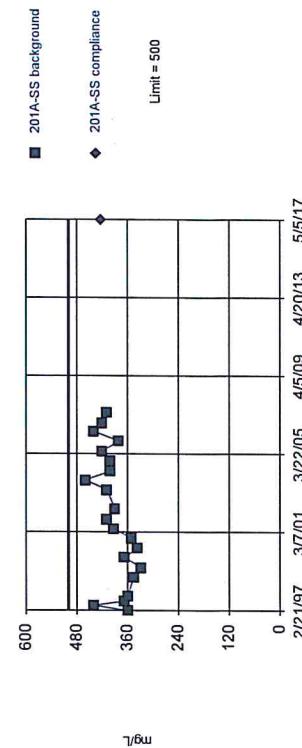
Prediction Limit
Intrawell Parametric



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 = 0.8676, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. 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 7/11/2017 10:36 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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 = 2.895 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 10:37 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

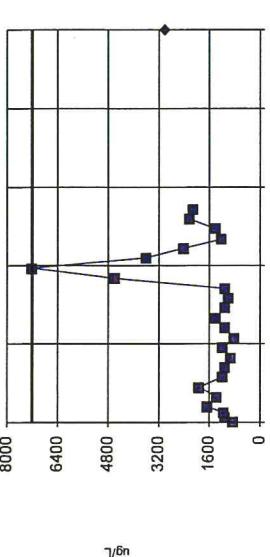
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=8.0e15, Std. Dev.=3.9e15, n=23. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.881. Kappa = 2.839 (c=34, w=8, 1 of 2 event alpha = 0.026). Report alpha = 0.00009683. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Hardness Total Analysis Run 7/11/2017 10:38 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

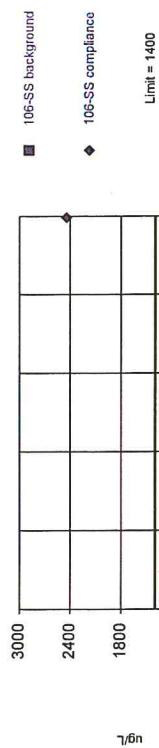
Within Limit
Prediction Limit
Intrawell Non-parametric



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 24 background values. Well/constituent pair annual alpha = 0.01227. Individual comparison alpha = 0.0003083 (1 or 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Iron Total Analysis Run 7/11/2017 10:38 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

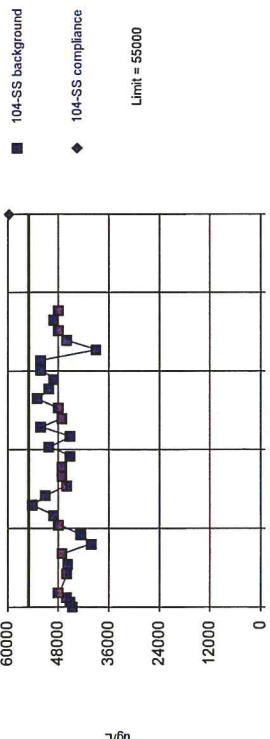
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.605, Std. Dev.=0.5835, n=26. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9865, critical = 0.891. Kappa = 2.766 (c=34, w=8, 1 of 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

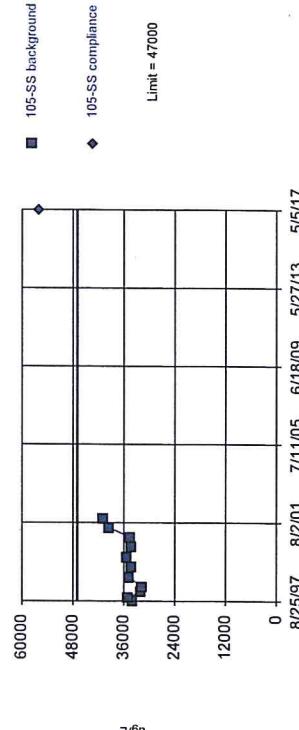
Constituent: Iron Total Analysis Run 7/11/2017 10:38 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



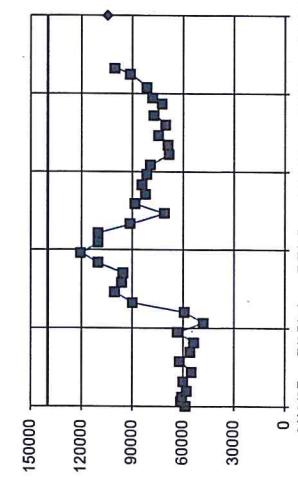
Background Data Summary (based on cube transformation): Mean=1.1e14, Std. Dev.=2.3e13, n=32. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.973, critical = 0.904. Kappa = 2.672 (c=34, w=8, 1 of 2 event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 10:39 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



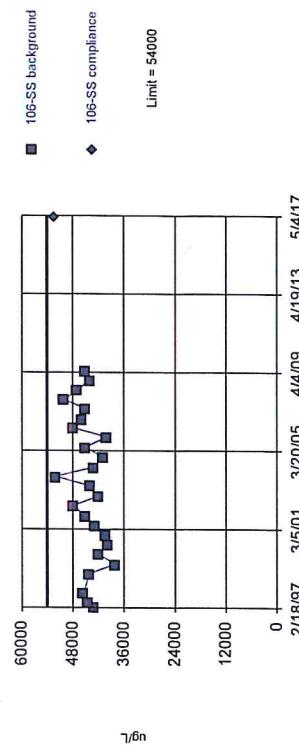
Background Data Summary (based on natural log transformation): Mean=10,46, Std. Dev.=0.07764, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8517, critical = 0.85. Kappa = 3.677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 10:40 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



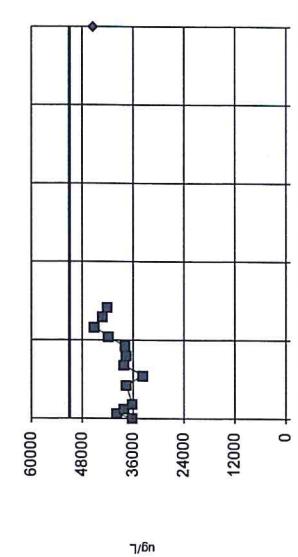
Background Data Summary (based on natural log transformation): Mean=11,23, Std. Dev.=0.2383, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 10:40 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on natural log transformation): Mean=10,99, Std. Dev.=0.07281, n=25. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9844, critical = 0.988. Kappa = 2.783 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 28000 (8/25/1997).

Constituent: Magnesium Total Analysis Run 7/11/2017 10:40 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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 = 0.986. Kappa = 3.402 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 10:41 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

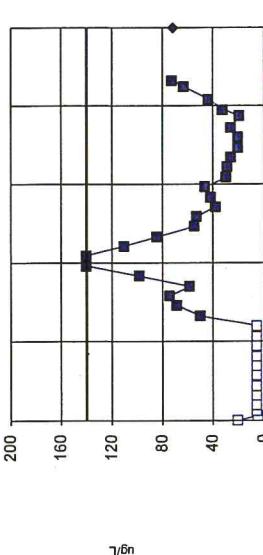
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=224, Std. Dev.=9,563, n=17. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8653, critical = 0.892. Kappa = 3.087 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Magnesium Total Analysis Run 7/11/2017 10:41 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

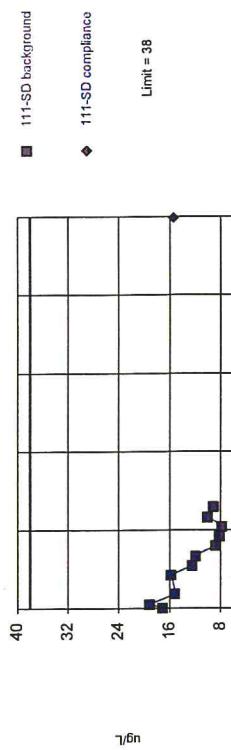
Prediction Limit
Intrawell Non-parametric



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<3% NDs. Well-constituent pair annual alpha = 0.005401. Individual comparison alpha = 0.001533 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 7/11/2017 10:42 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

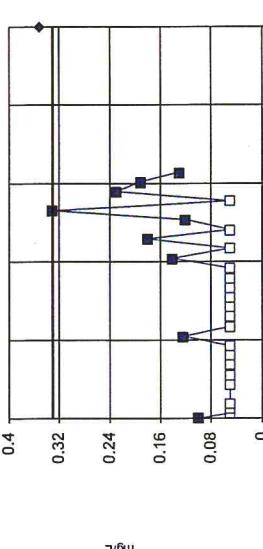
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=2,456, Std. Dev.=0,3205, n=11. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9247, critical = 0.85. Kappa = 3,677 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 40 (8/21/1997).

Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 10:42 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

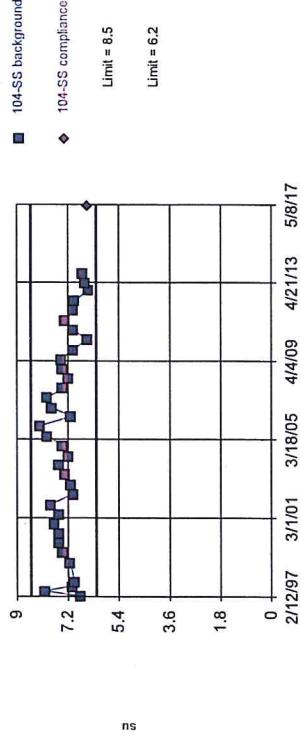
Prediction Limit
Intrawell Non-parametric



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.

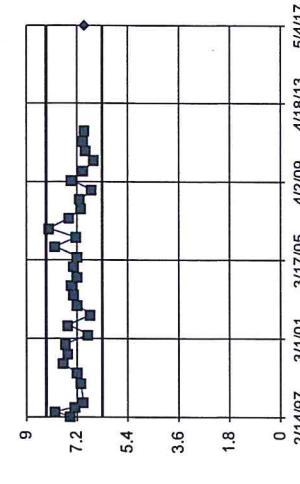
Constituent: Manganese Total Analysis Run 7/11/2017 10:42 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 10:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

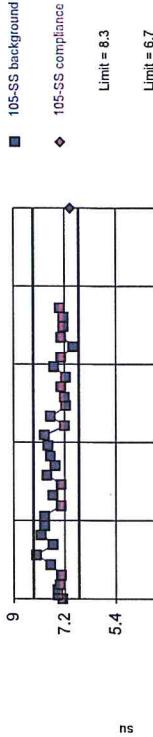
Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 10:45 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

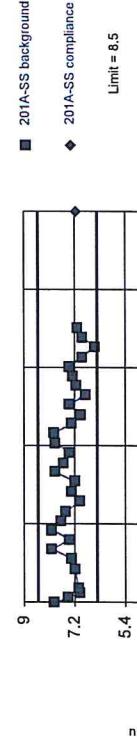
Within Limits

Prediction Limit
Intrawell Parametric



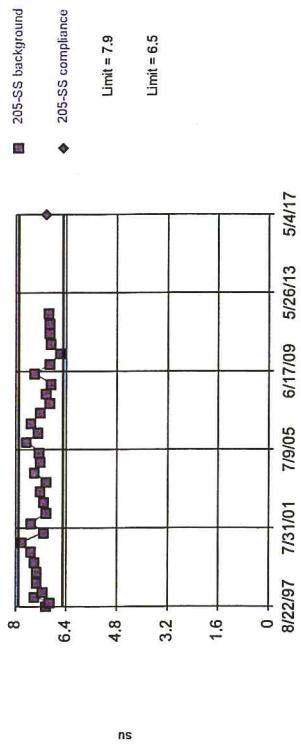
Constituent: pH [Field] Analysis Run 7/11/2017 10:44 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 10:45 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

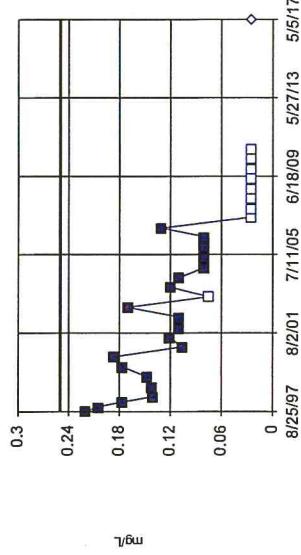
Within Limits
 Prediction Limit
 Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.969, Std. Dev.=0.03712, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9742, critical = 0.904. Kappa = 2.673 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 10:45 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
 Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1025, Std. Dev.=0.05592, n=29, 31.03% NDs. Normality test: Shapiro Wilk @alpha = 0.01 calculated = 0.9155, critical = 0.898. Kappa = 2.713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 10:46 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

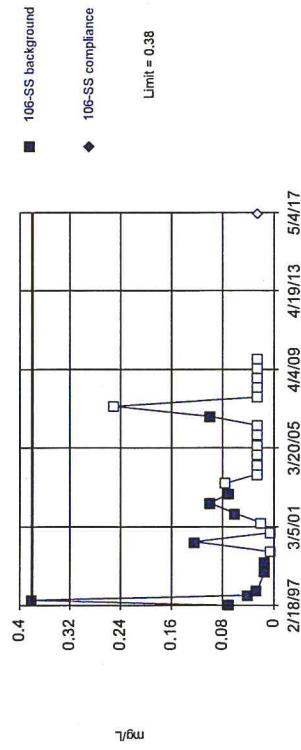
Within Limits
 Prediction Limit
 Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2985, Std. Dev.=0.1361, n=31, 12.9% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.902. Kappa = 2.685 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 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 7/11/2017 10:46 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

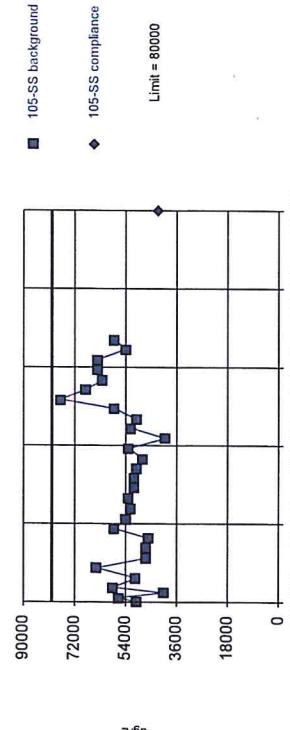
Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 59.26% NDs. Well-constituent pair annual alpha = 0.009865. Individual comparison alpha = 0.002475 (' of 2). EPA 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 7/11/2017 10:46 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

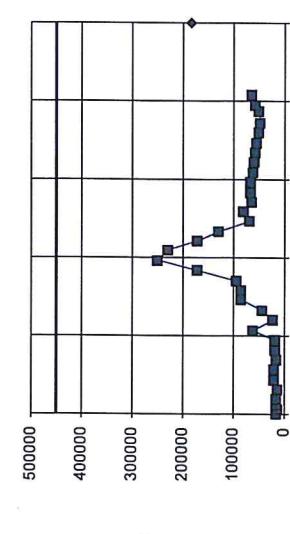
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10,89, Std. Dev.=0,1457, n=23, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9755, critical = 0.898. Kappa = 2,713 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 10:48 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

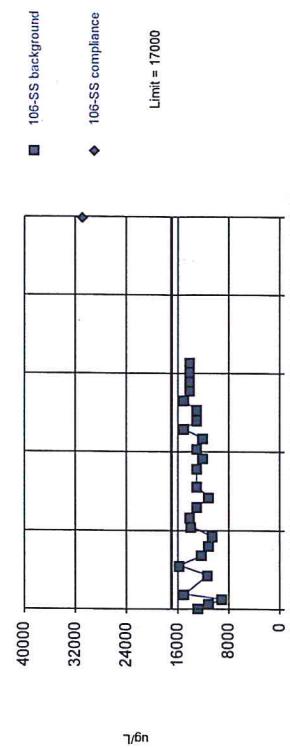
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10,78, Std. Dev.=0,8461, n=35, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.91. Kappa = 2,639 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 10:49 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

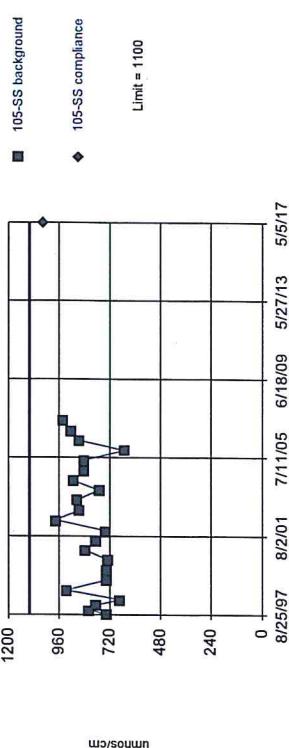
Prediction Limit
Intrawell Parametric
Exceeds Limit



Background Data Summary (based on square transformation): Mean=17,68, Std. Dev.=4,067, n=26, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9718, critical = 0.891. Kappa = 2,766 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 20000 (11/20/2003).

Constituent: Sodium Total Analysis Run 7/11/2017 10:49 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

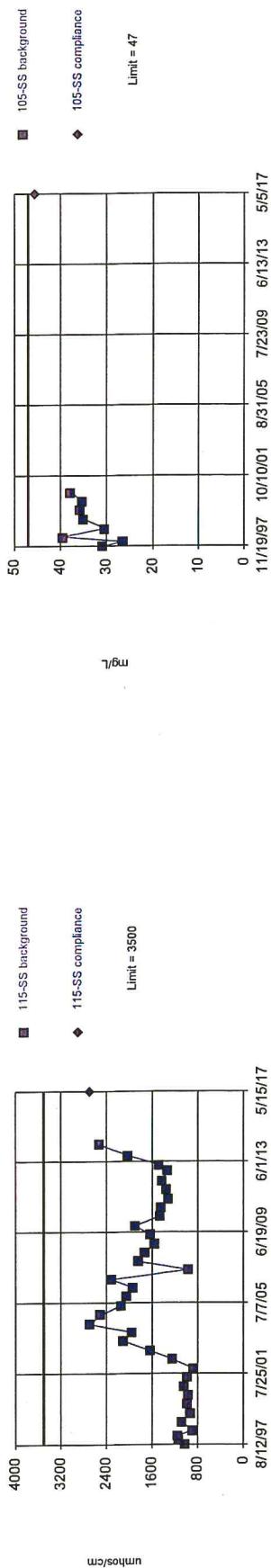
Prediction Limit
Intrawell Parametric
Within Limit



Background Data Summary (based on square transformation): Mean=8135, Std. Dev.=8759, n=22, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9753, critical = 0.878. Kappa = 2,668 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 10:50 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

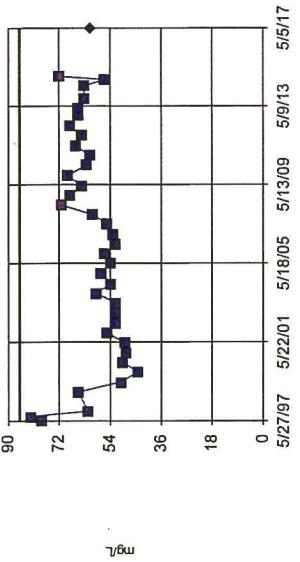
Within Limit
Prediction Limit
Intrawell Parametric



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 = 2.63 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 10:51 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.141, Std. Dev.=0.083, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9612, critical = 0.914. Kappa = 2.62 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Rosner's outlier test was performed on the background data. One background outlier was removed: 99 (2/21/1997).

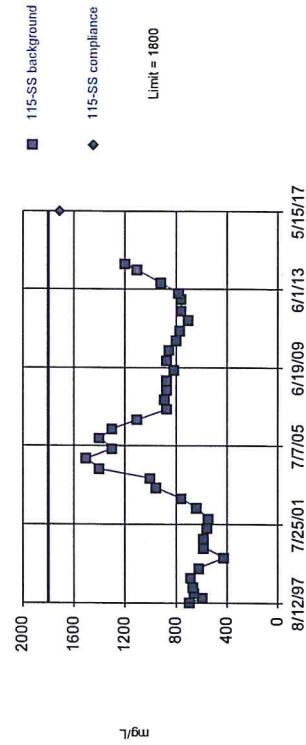
Background Data Summary (based on cube transformation): Mean=0.0346, Std. Dev.=1.4371, n=8. Normality test: Shapiro Wilk @alpha = 0.1, calculated = 0.9665, critical = 0.851. Kappa = 4.57 (c=34, w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.00009683. Dixon's outlier test was performed on the background data. One background outlier was removed: 13 (8/25/1997).

Constituent: Sulfate Analysis Run 7/11/2017 10:52 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Sulfate Analysis Run 7/11/2017 10:51 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 10:52 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

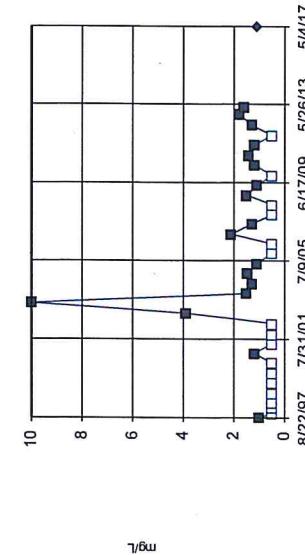
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.71, Std. Dev.=0.3007, n=27. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.979, critical = 0.914. Kappa = 2.62 (c=34; w=8, 1 of 2, event alpha = 0.026). Report alpha = 0.0009683. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Duxons/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 10:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

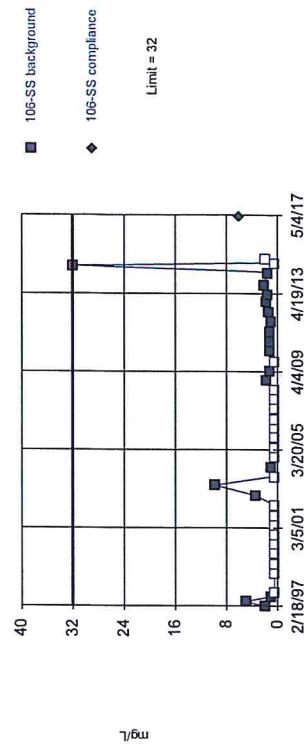
Prediction Limit
Intrawell Non-parametric



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 = 0.000335. 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 7/11/2017 10:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

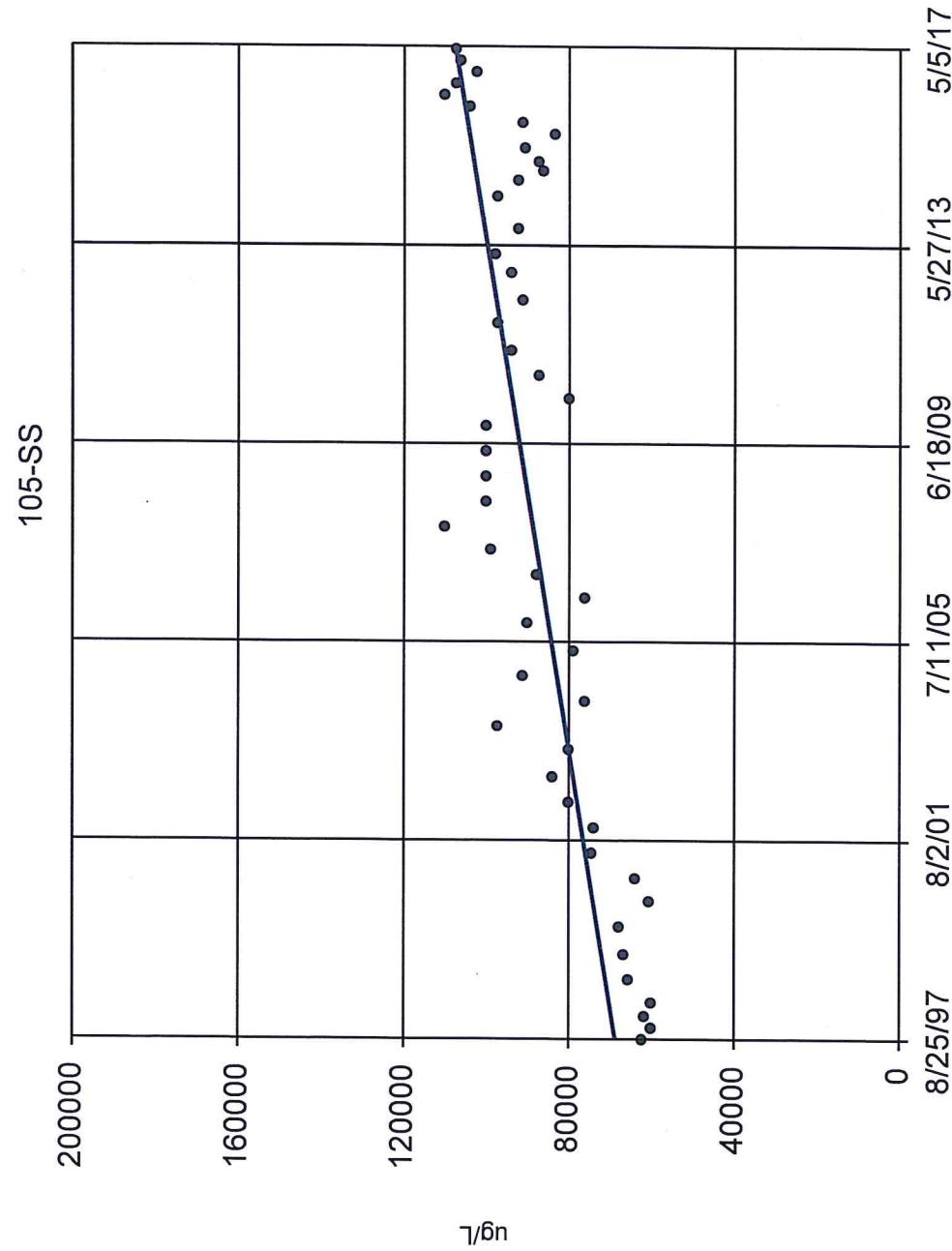


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 53.85% NDs. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

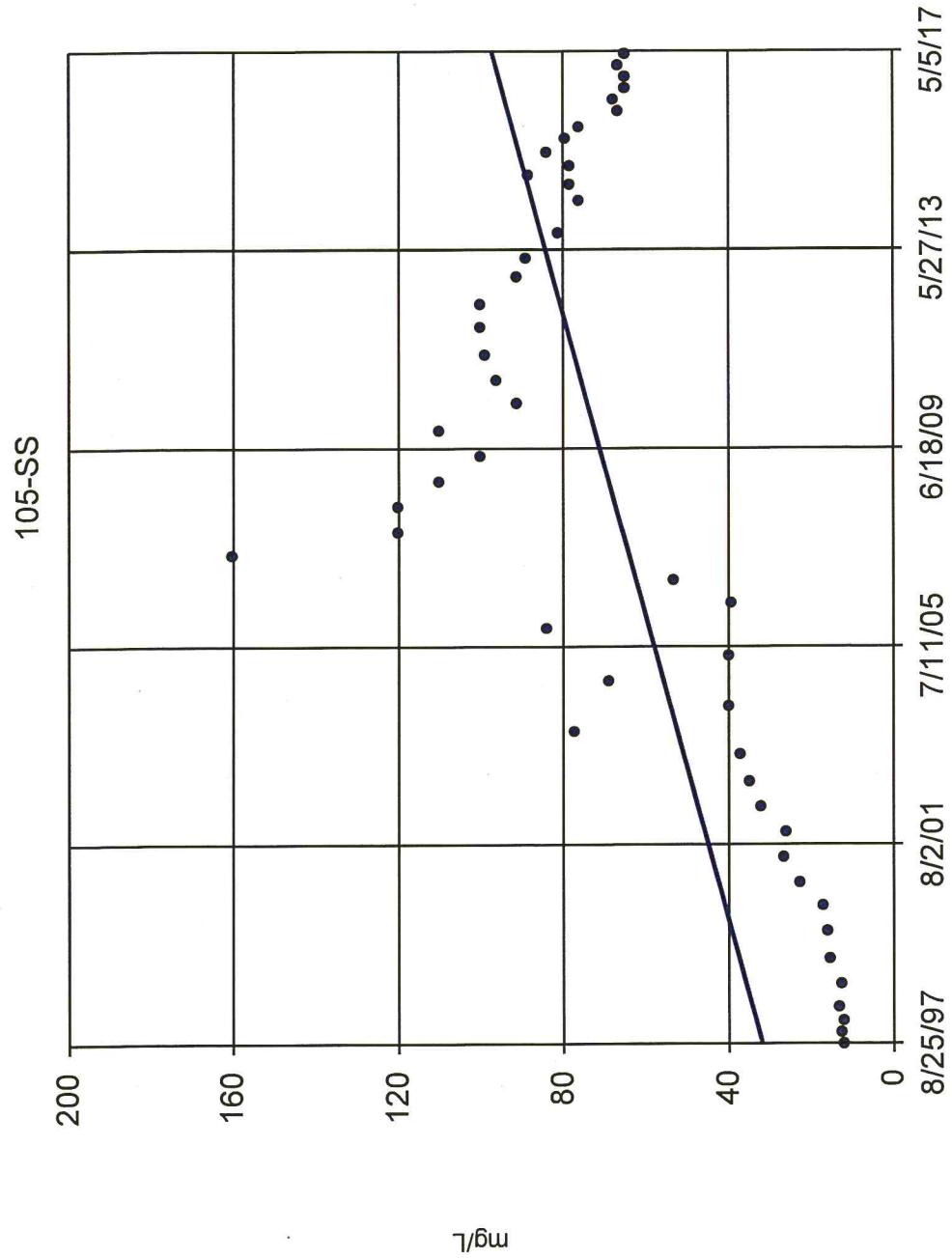
Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 10:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

**TREND EVALUATION OF
EXCEEDING CONSTITUENTS**

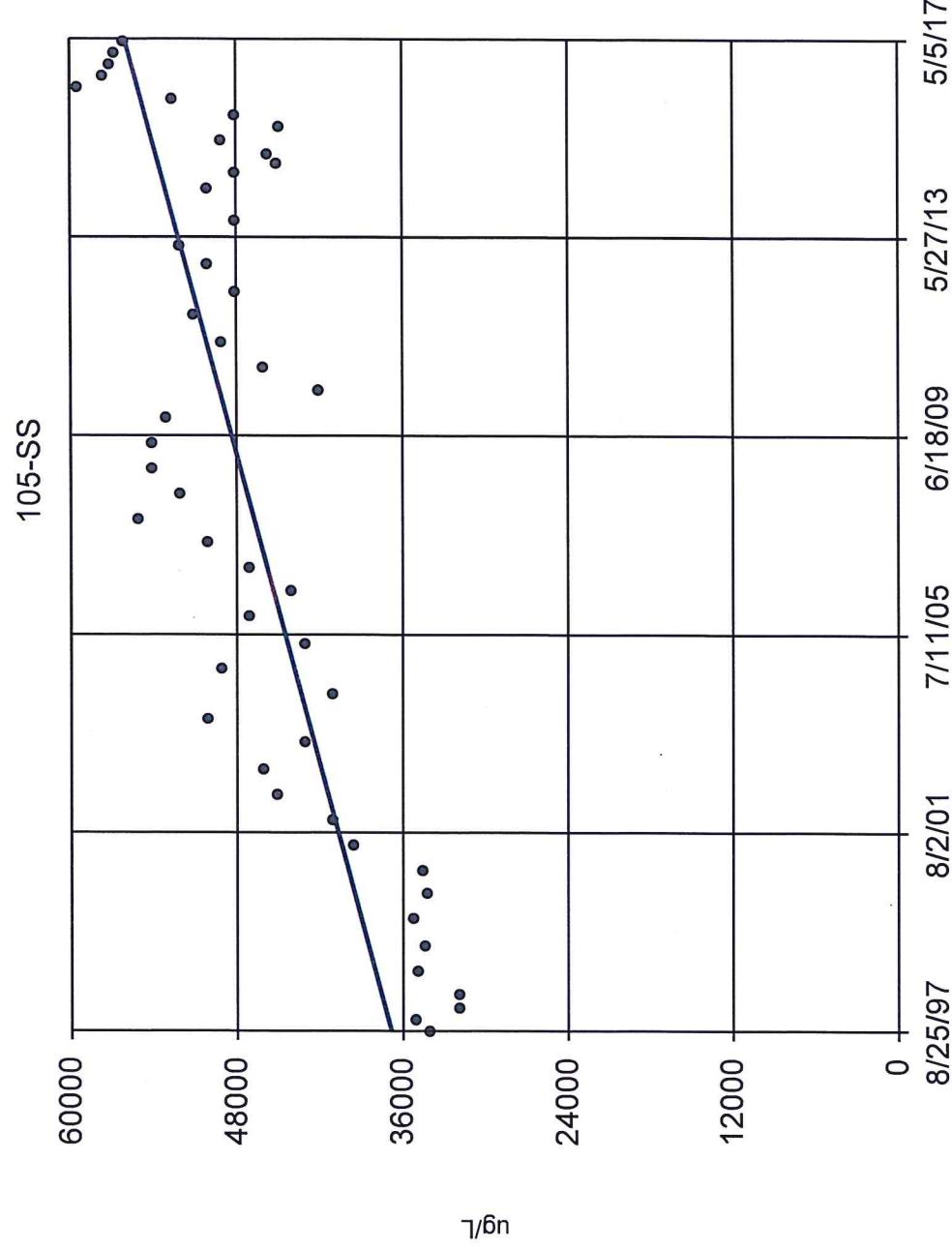
Sen's Slope Estimator



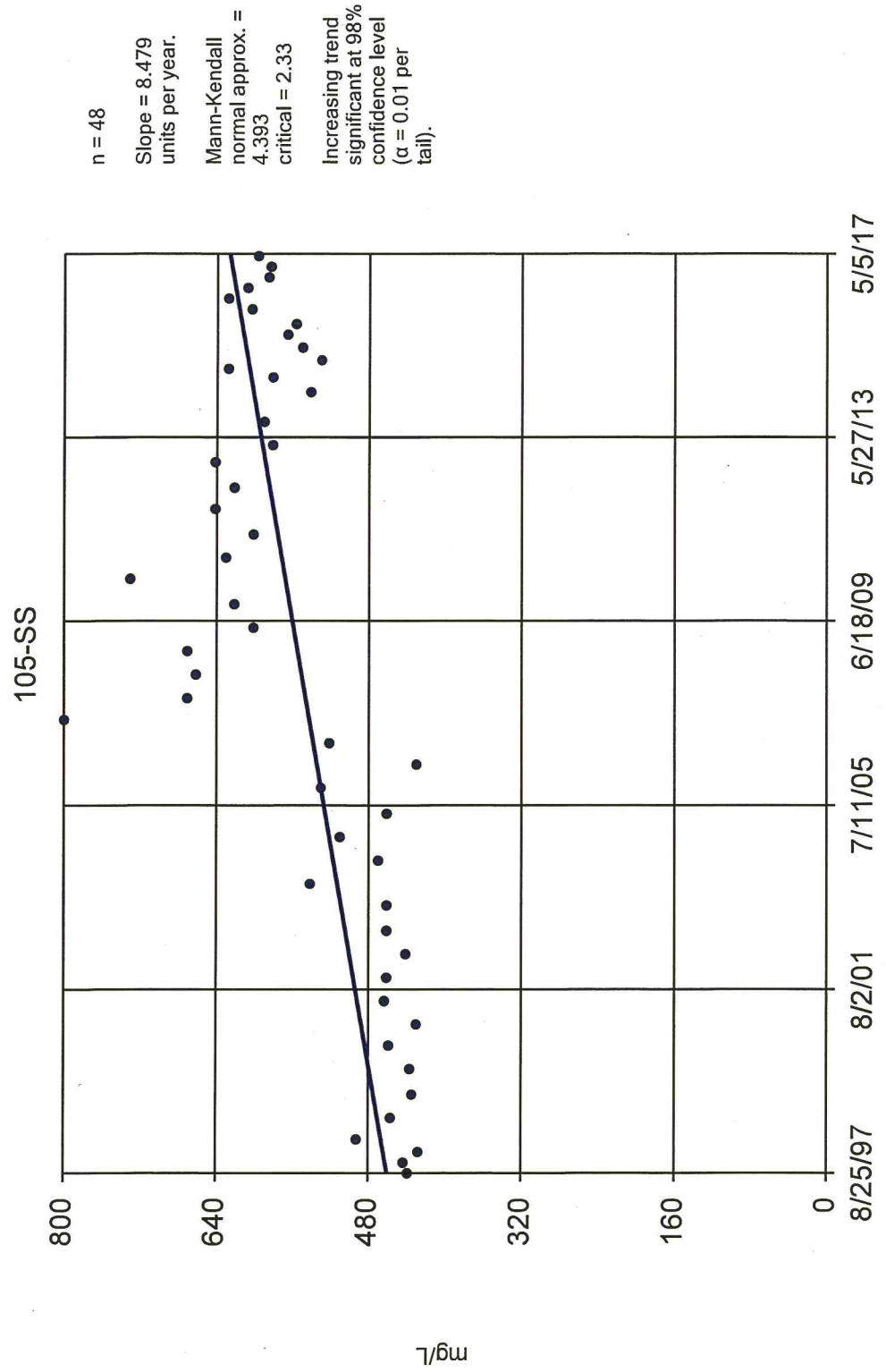
Sen's Slope Estimator



Sen's Slope Estimator



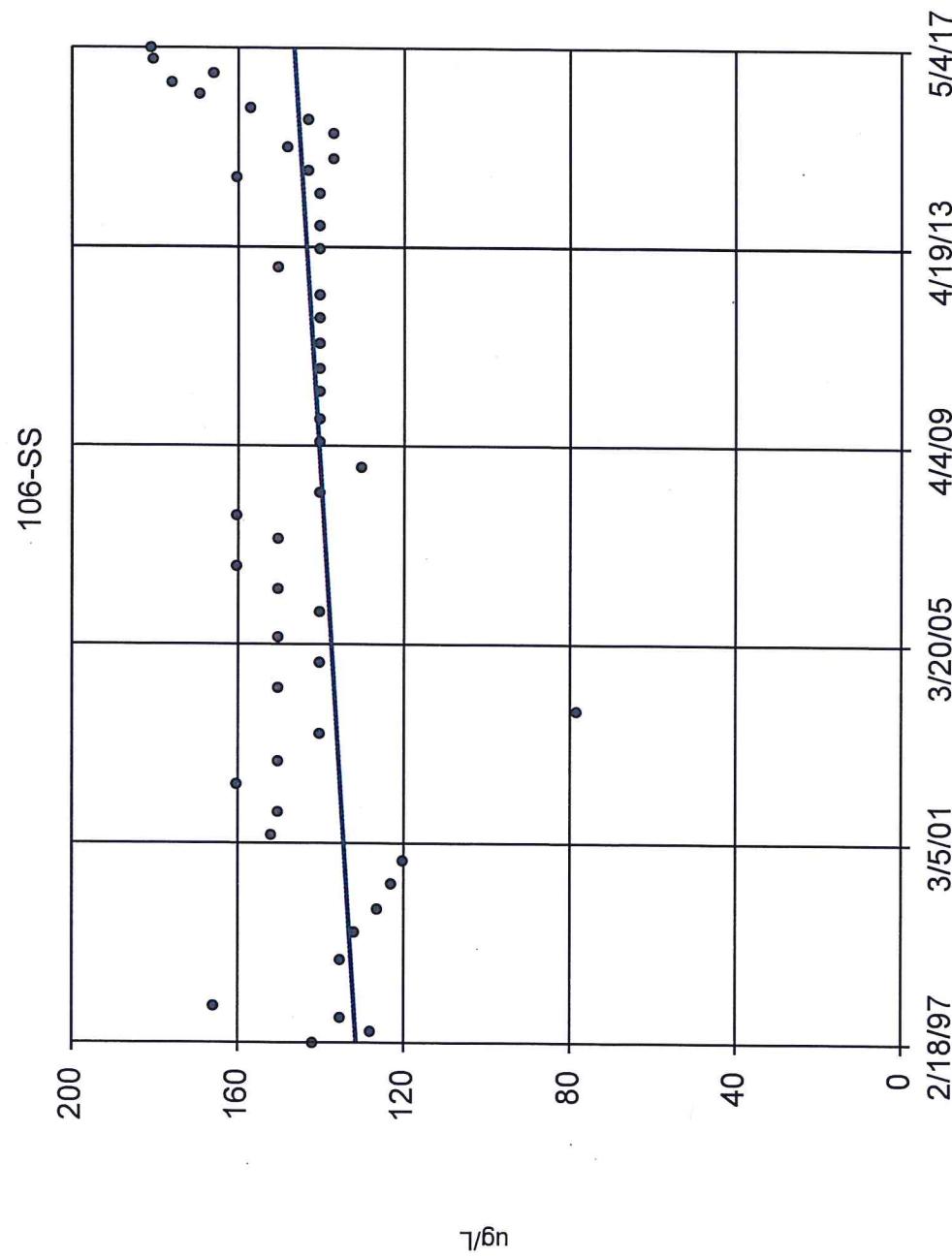
Sen's Slope Estimator



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 11:46 PM

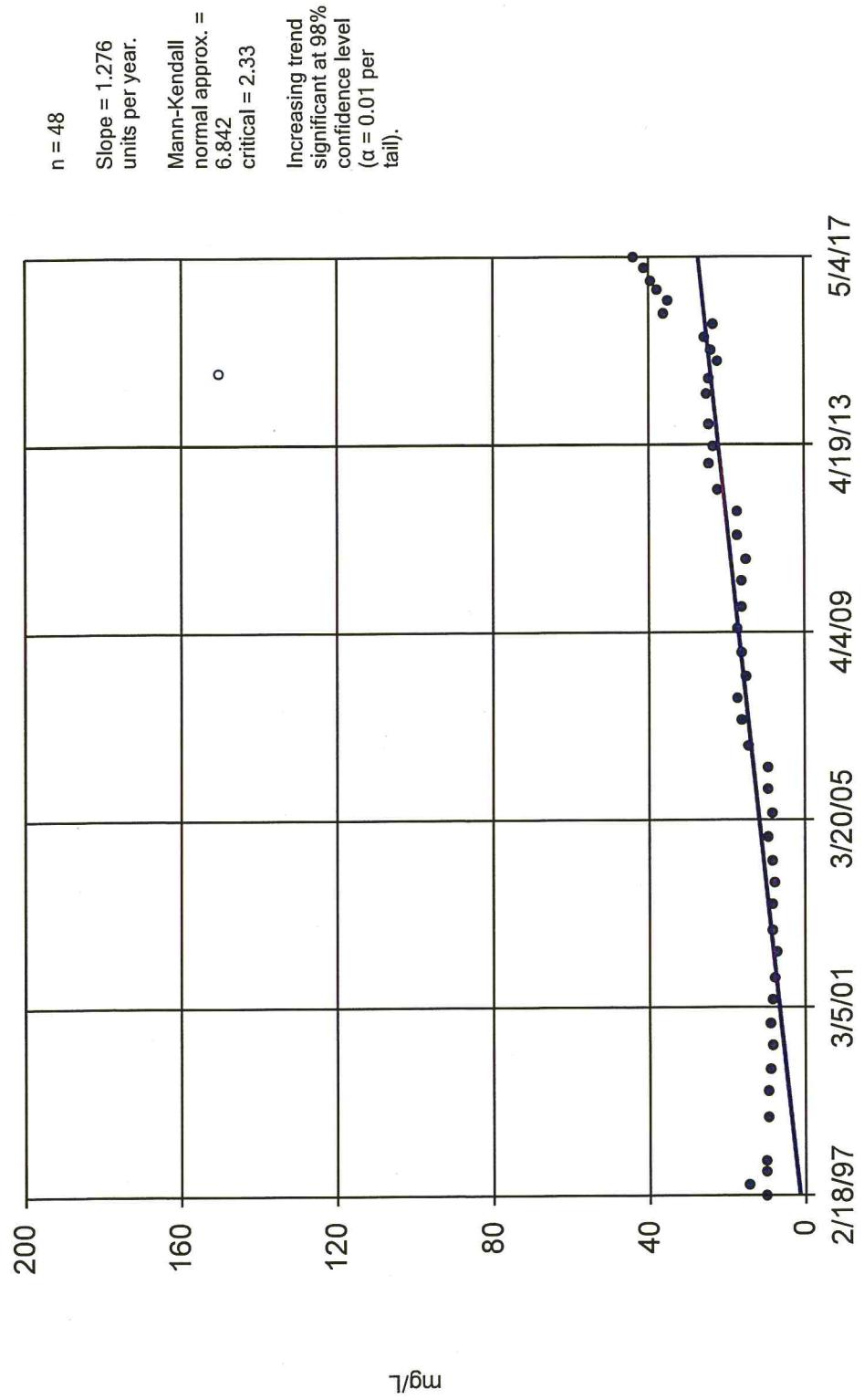
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator



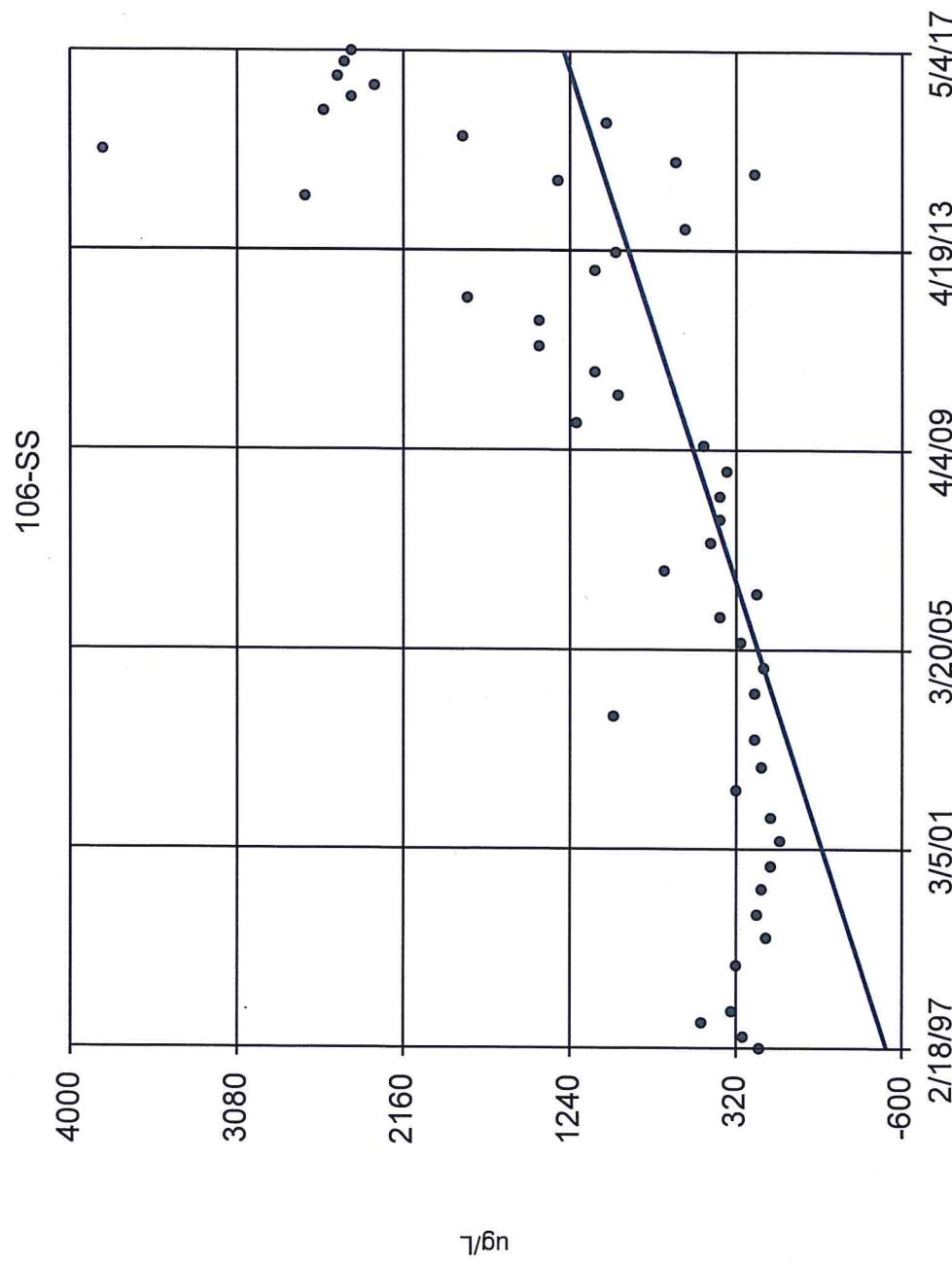
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Sen's Slope Estimator



Constituent: Chloride Analysis Run 7/11/2017 11:47 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

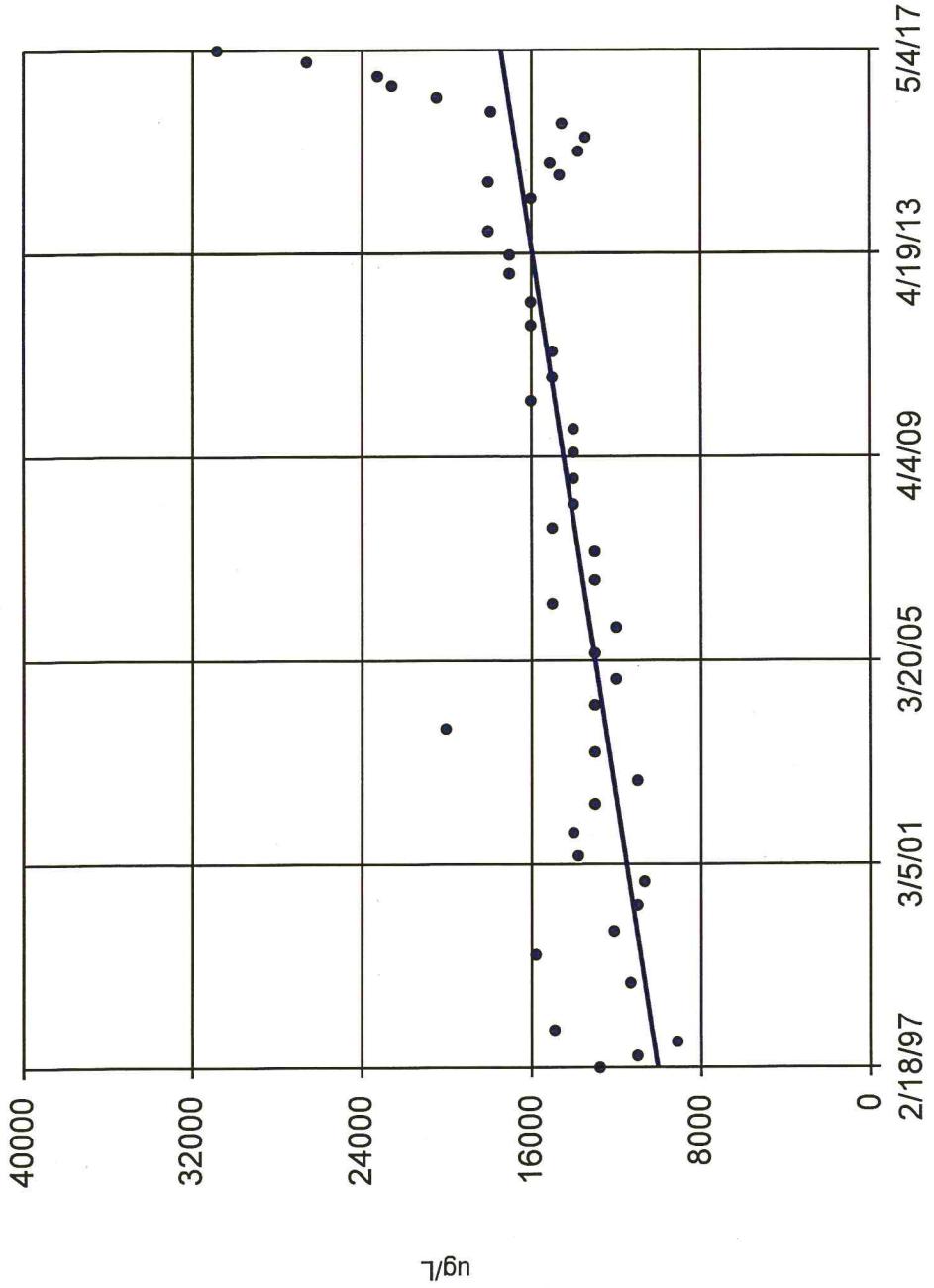
Sen's Slope Estimator



Constituent: Iron Total Analysis Run 7/11/2017 11:47 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

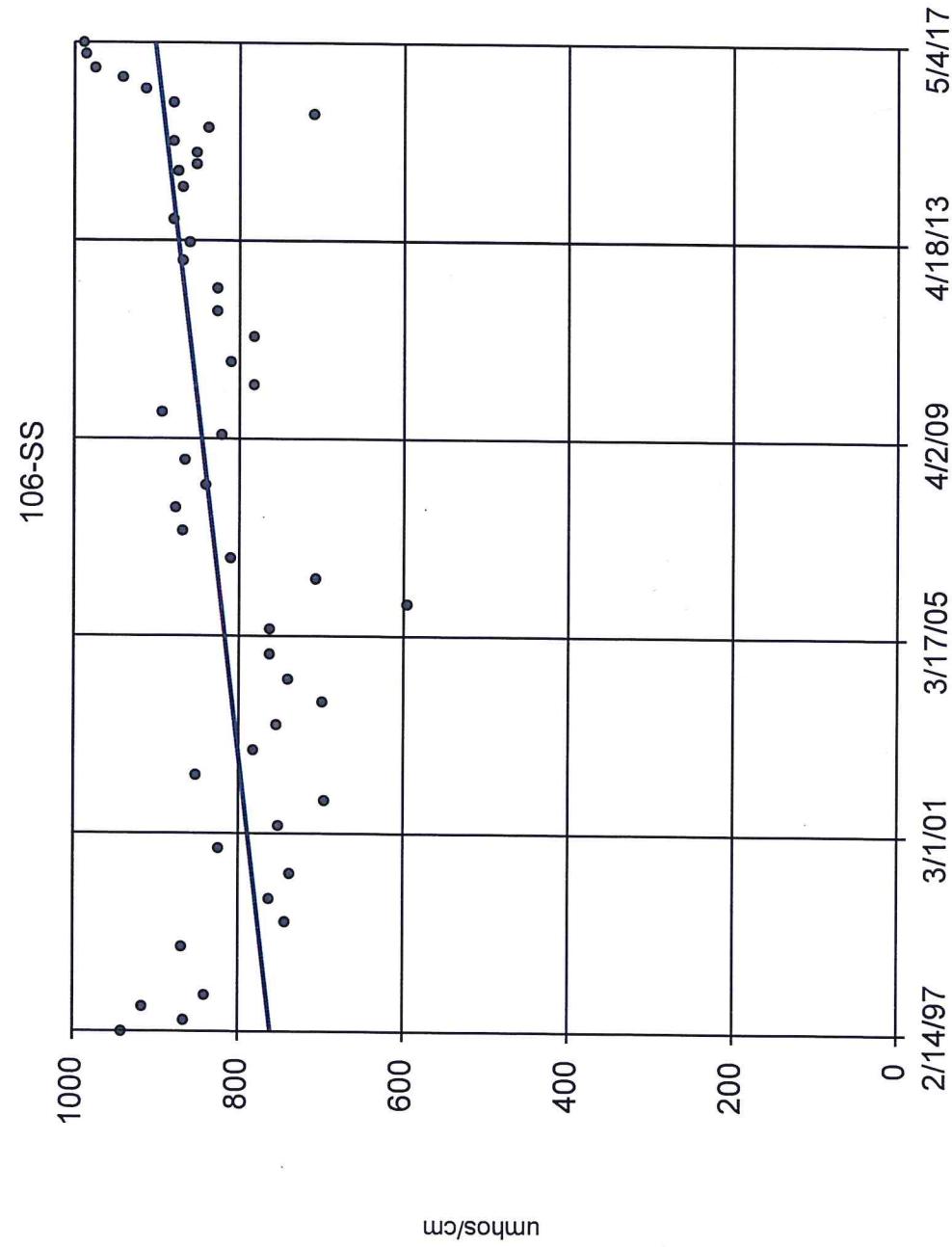
Sen's Slope Estimator

106-SS



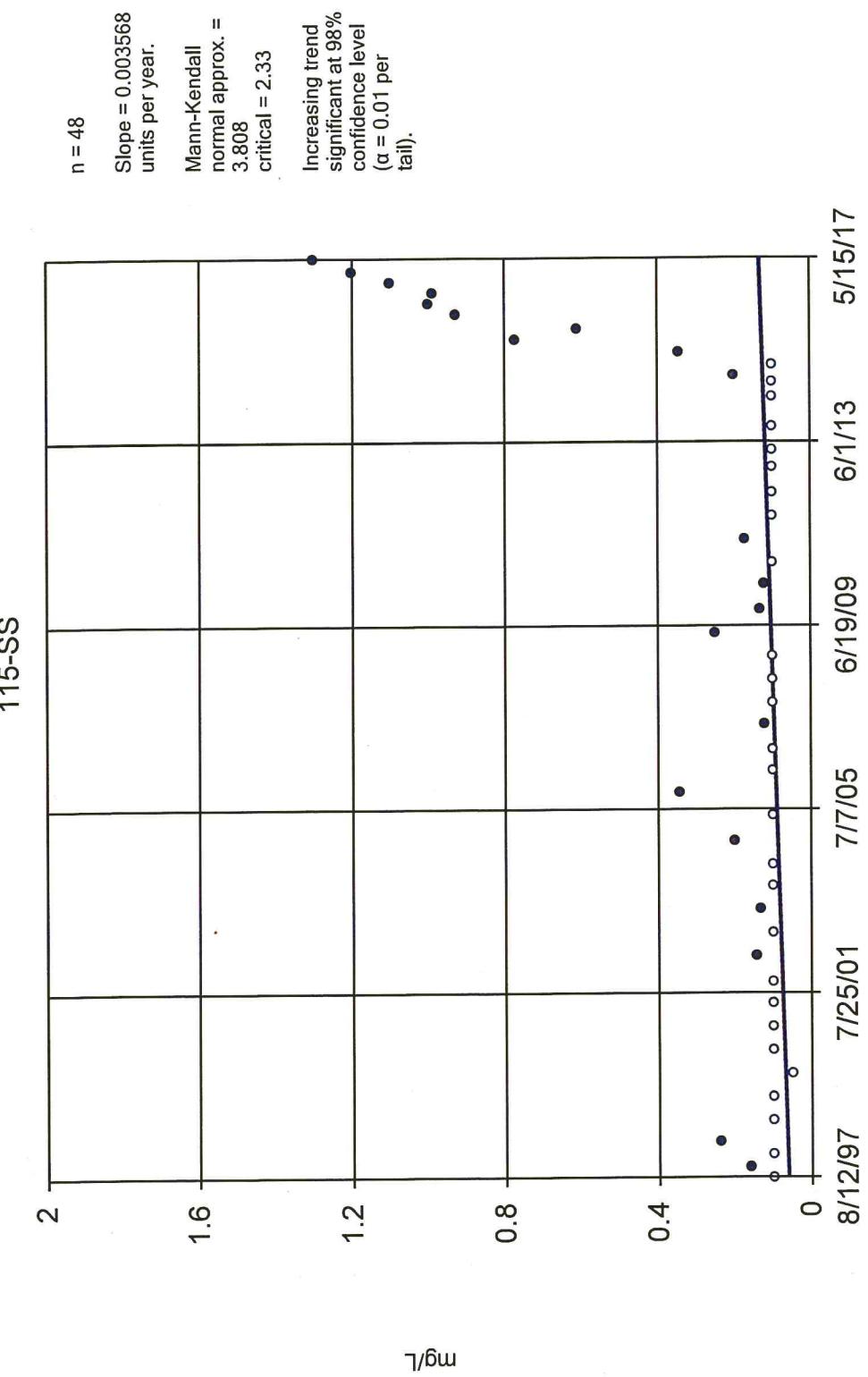
Constituent: Sodium Total Analysis Run 7/11/2017 11:47 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator



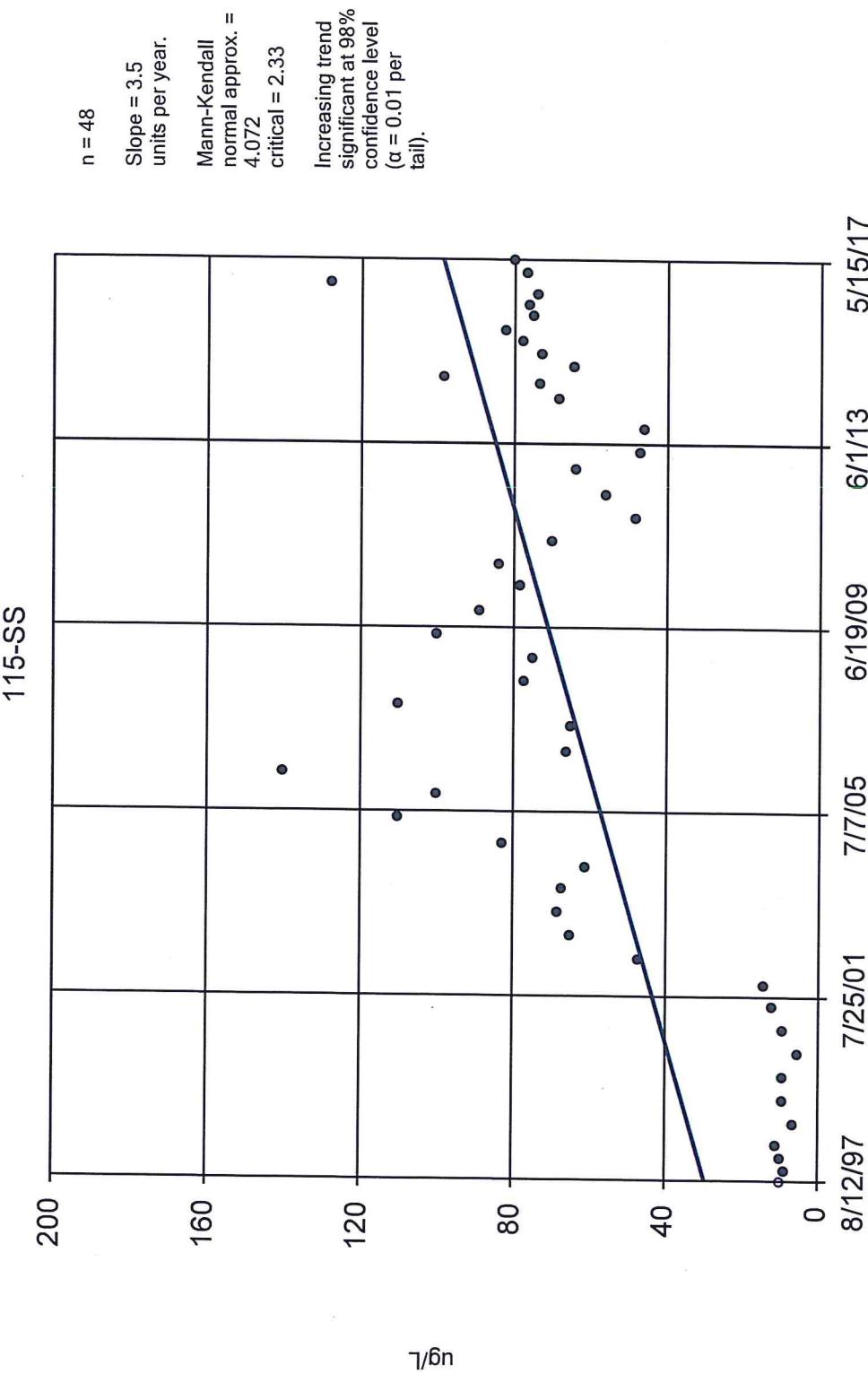
Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 11:47 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator



Constituent: Ammonia as N Analysis Run 7/11/2017 11:48 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

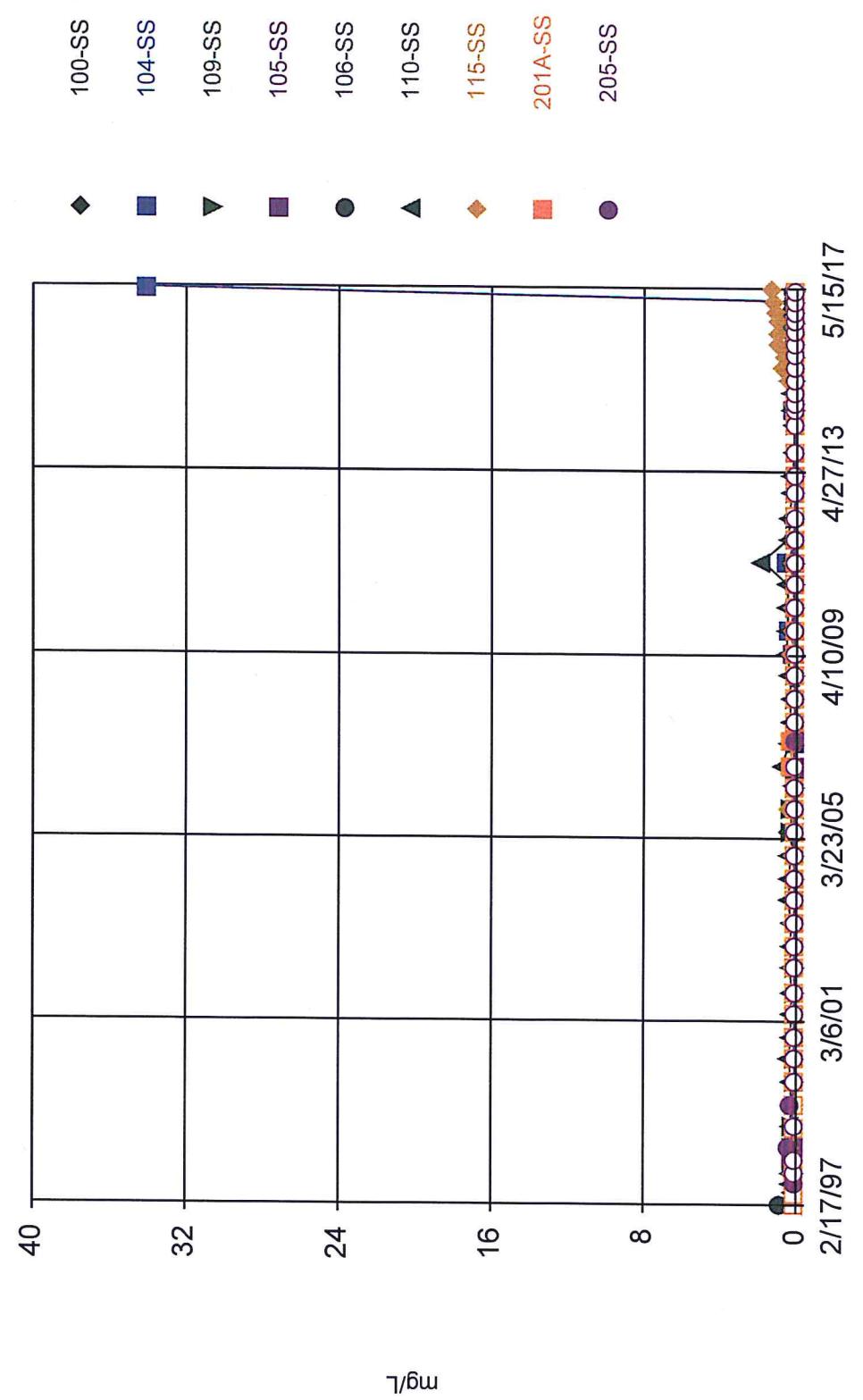


Constituent: Manganeze Total Analysis Run 7/11/2017 11:48 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

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

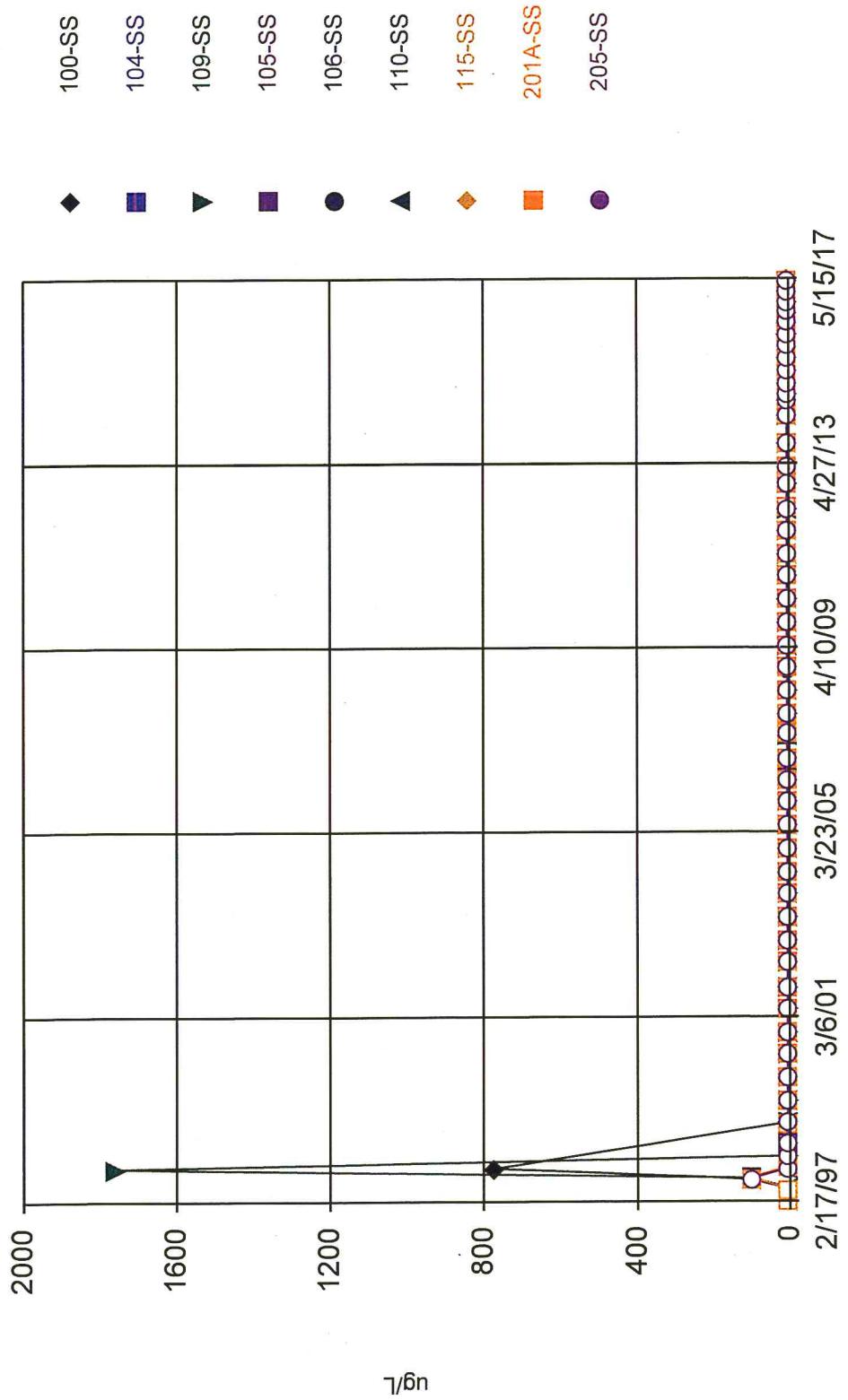
Time Series



Constituent: Ammonia as N Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

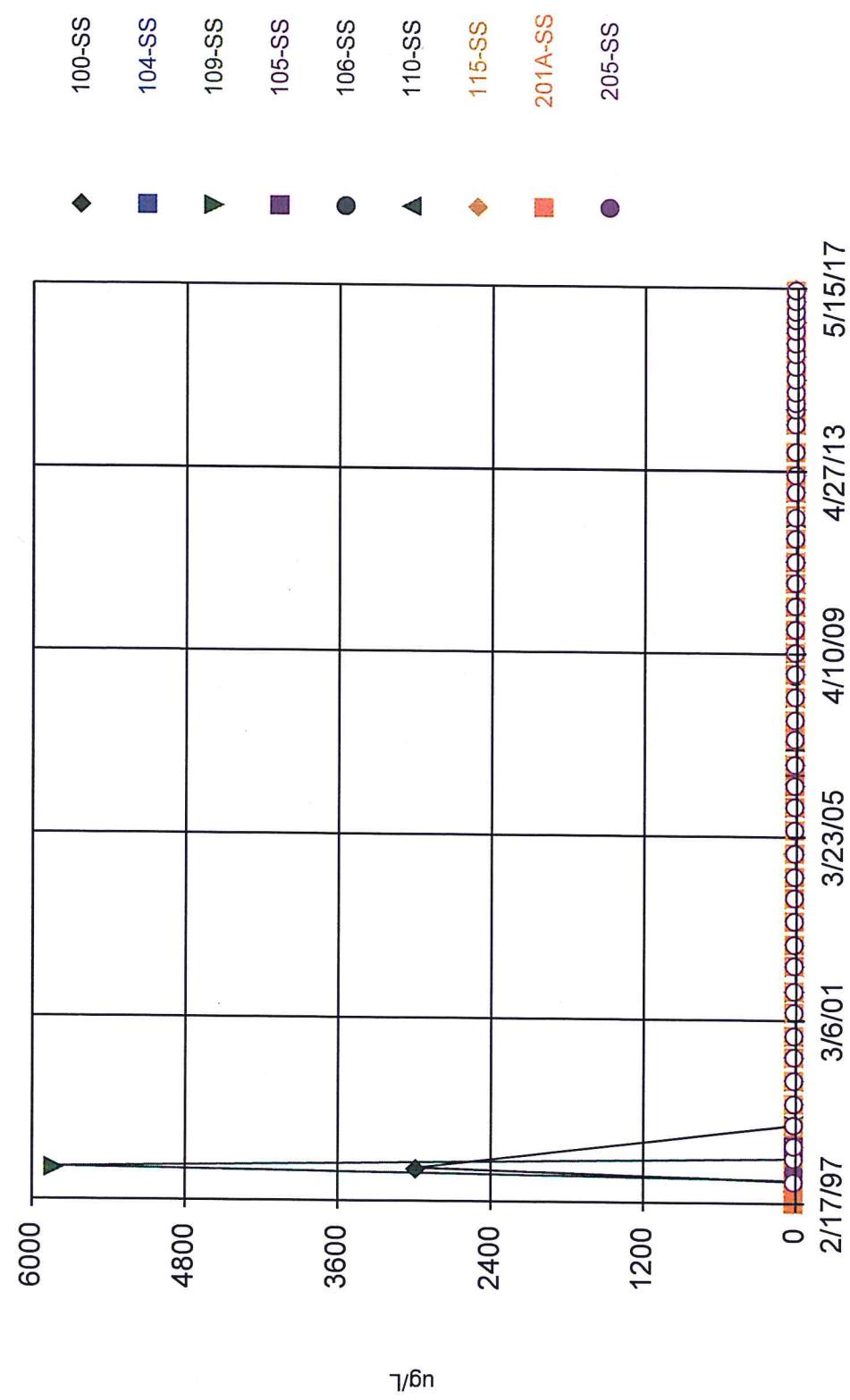
Time Series



Constituent: Antimony Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

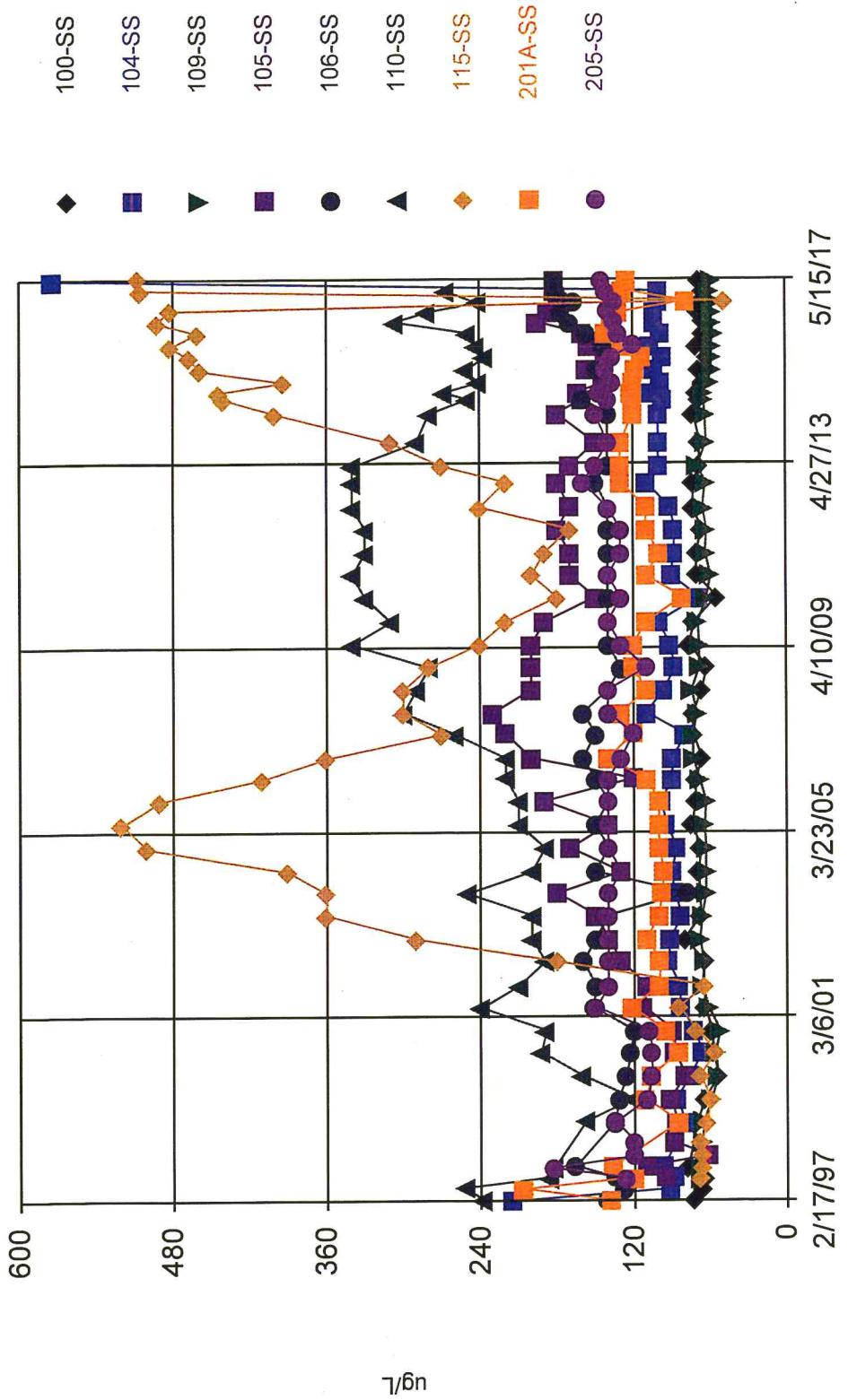
Sanitas™ v 9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



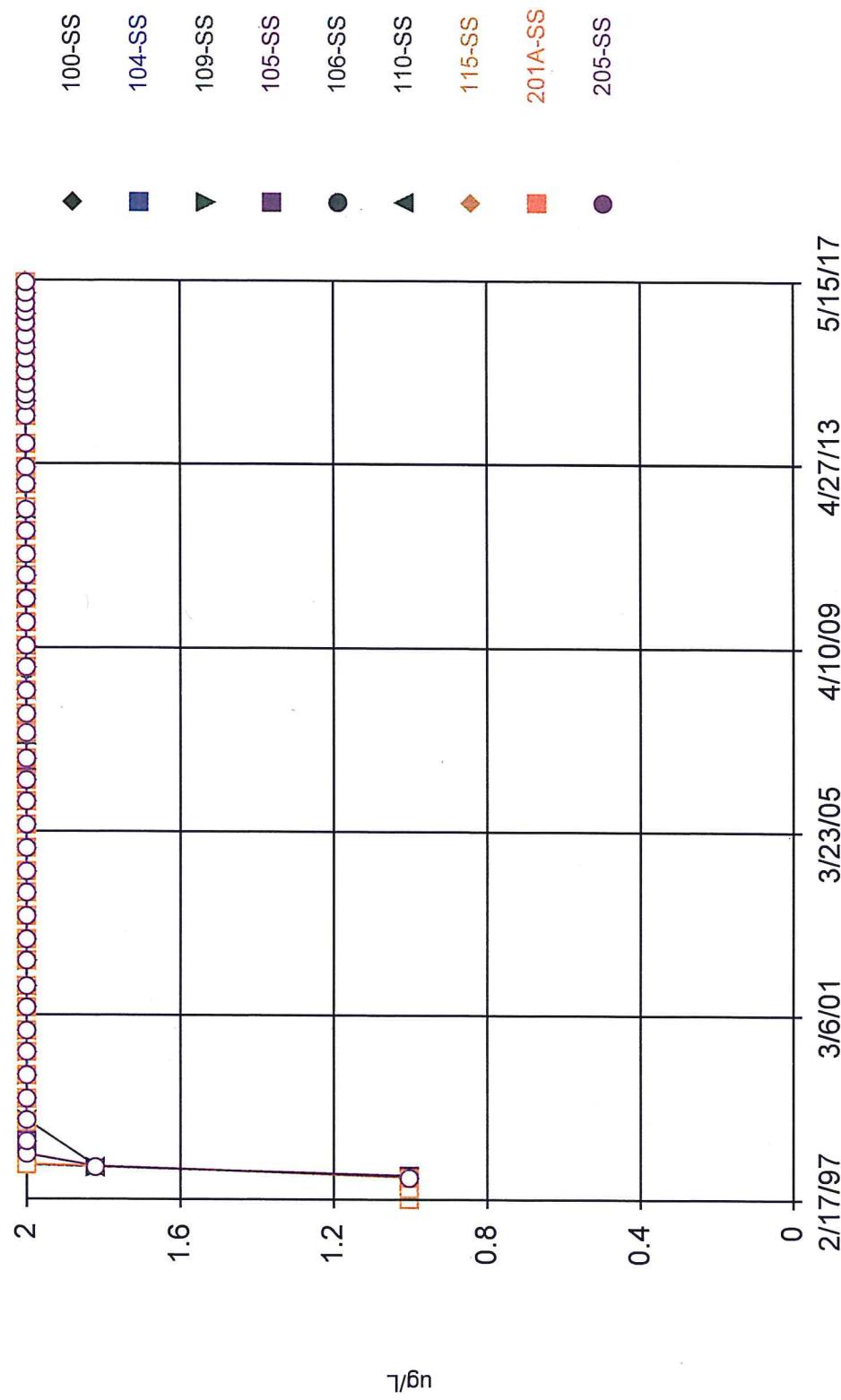
Constituent: Arsenic Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



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

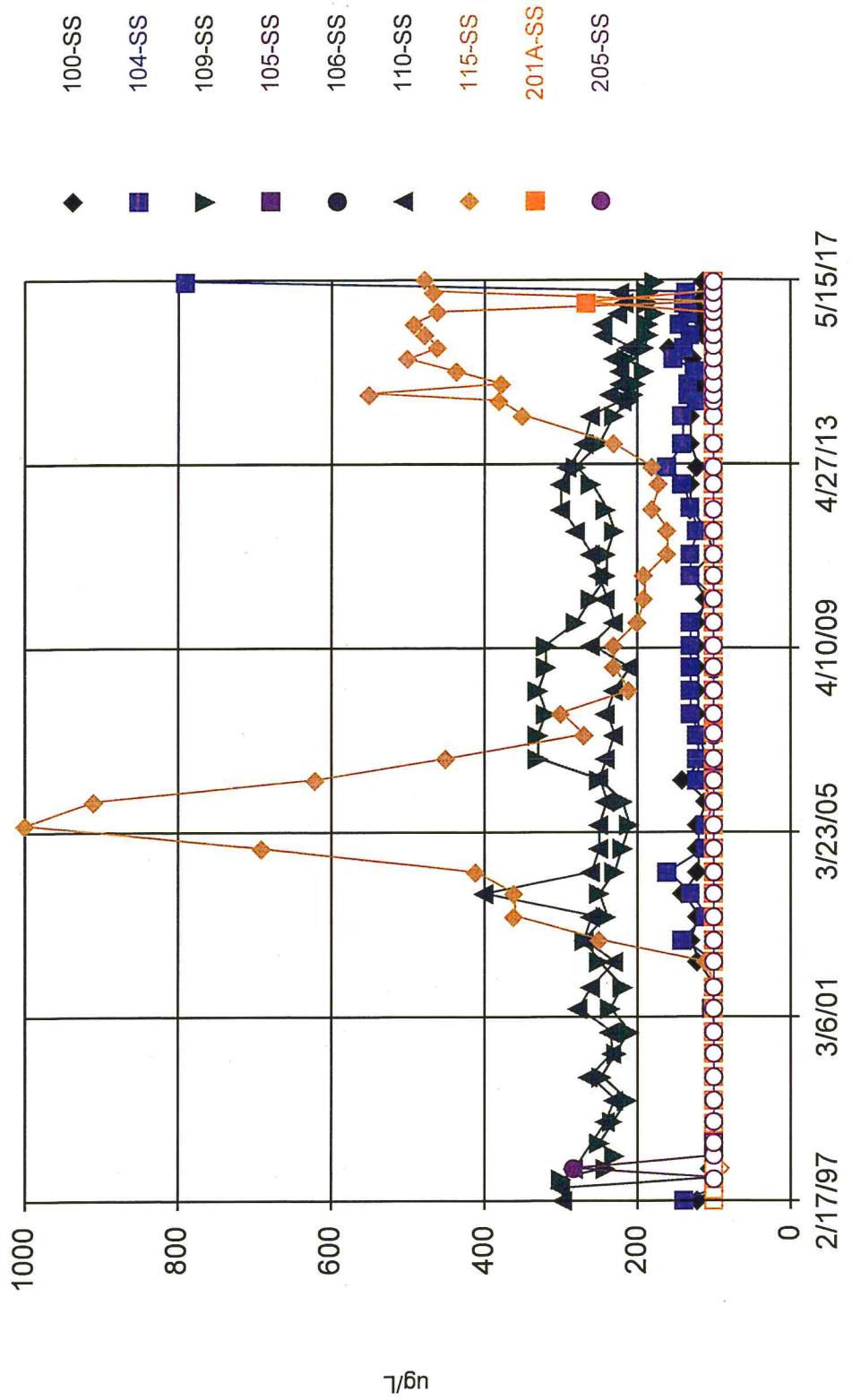
Time Series



Constituent: Beryllium Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

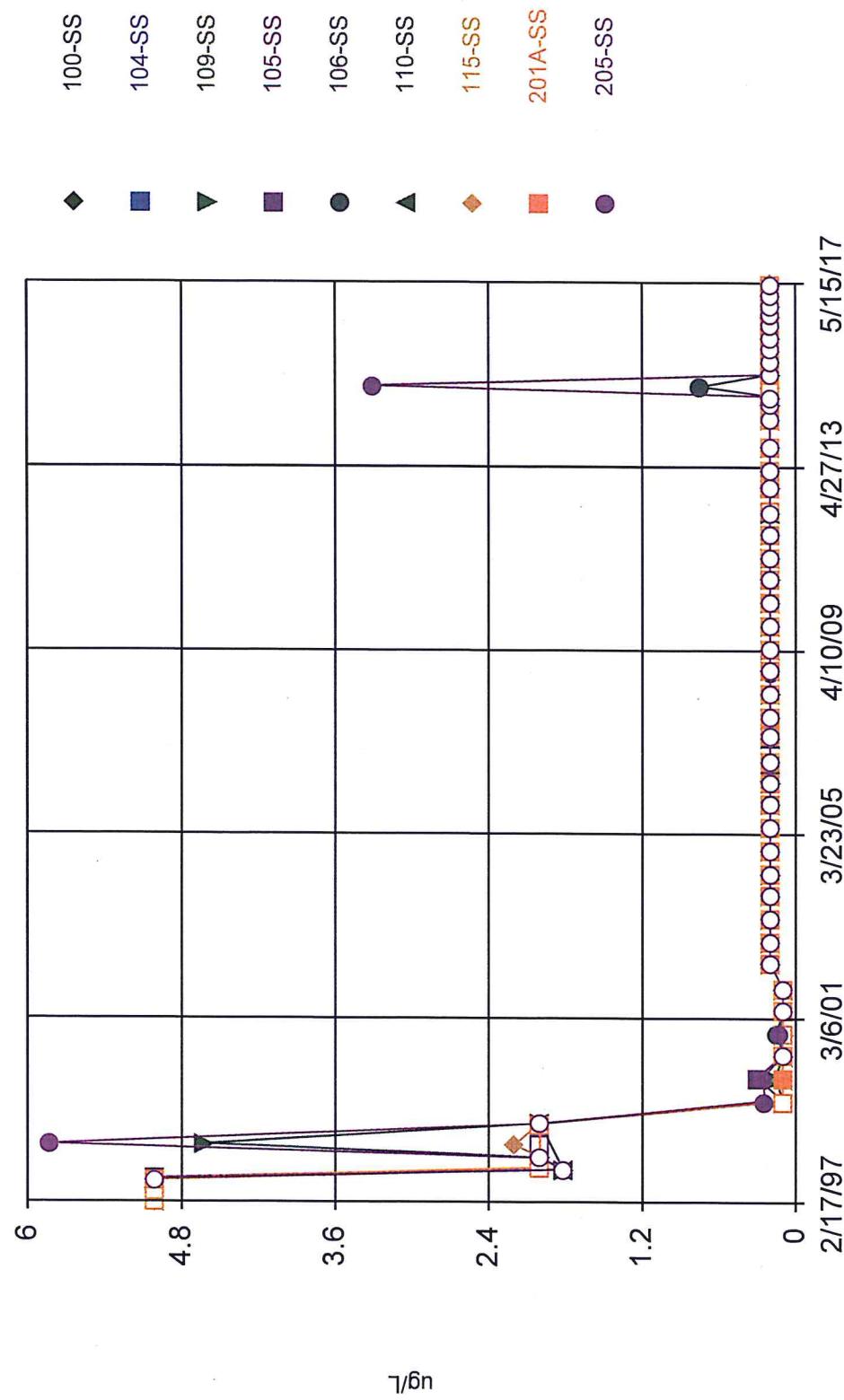
Time Series



Constituent: Boron Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

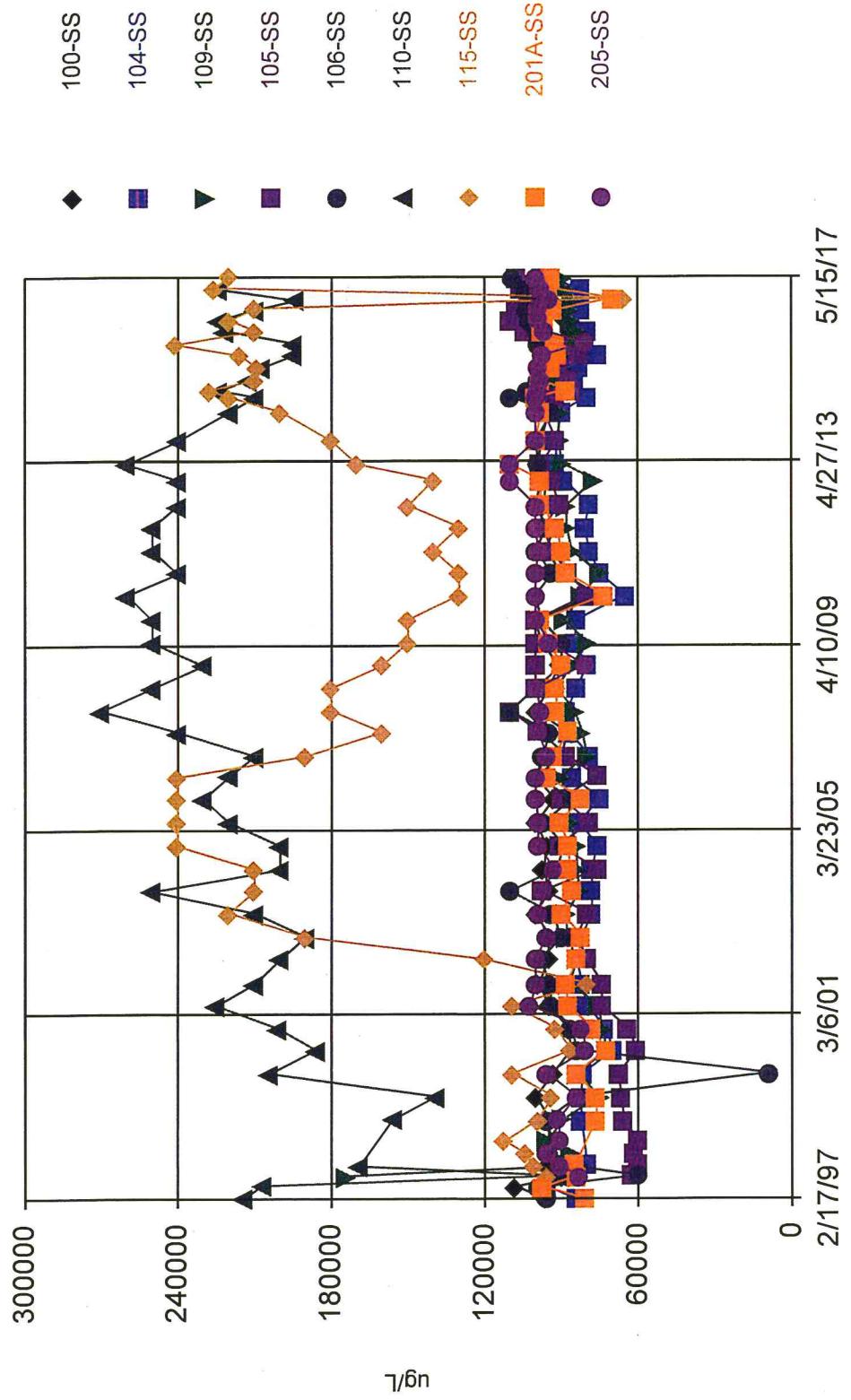
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

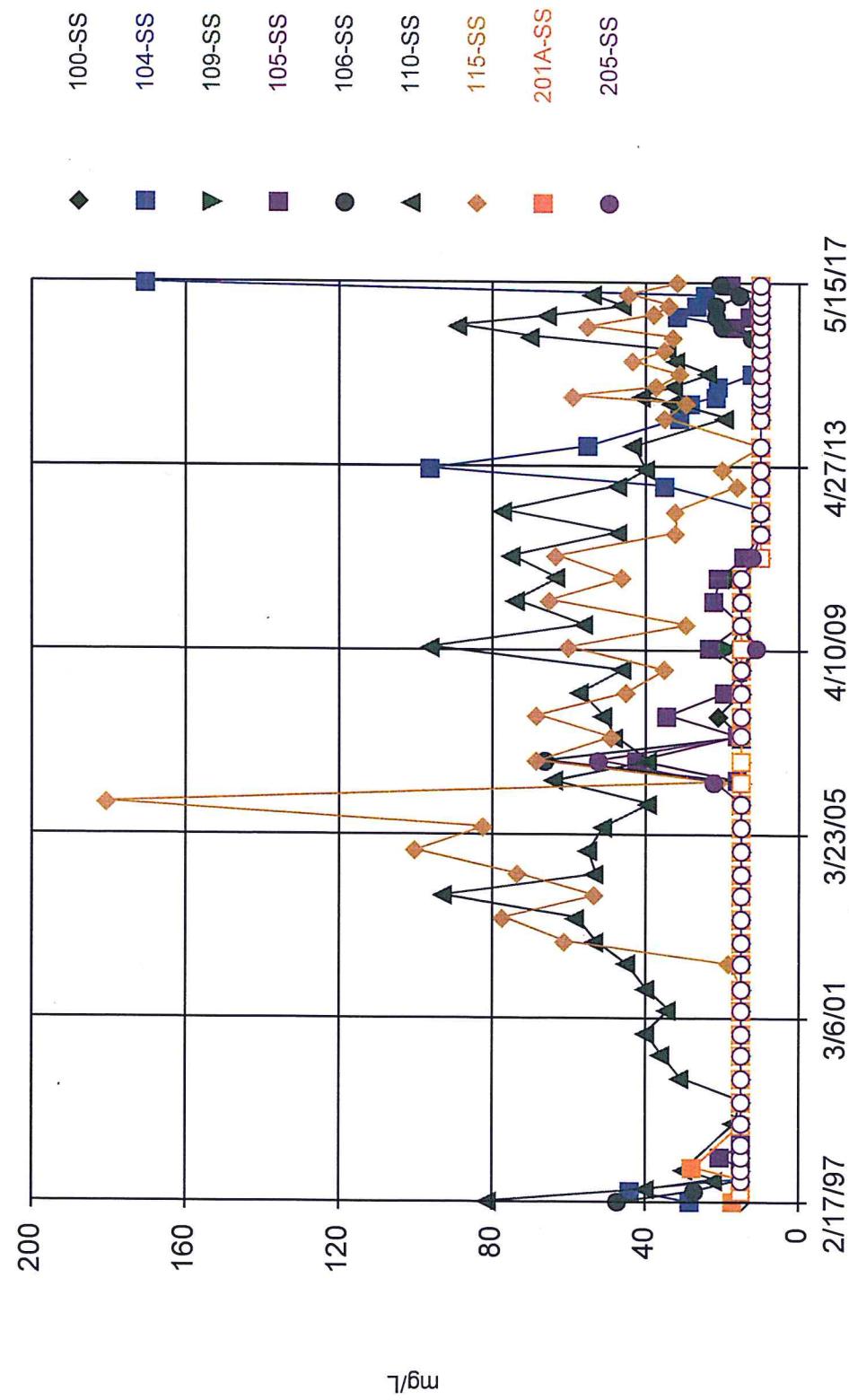
Time Series



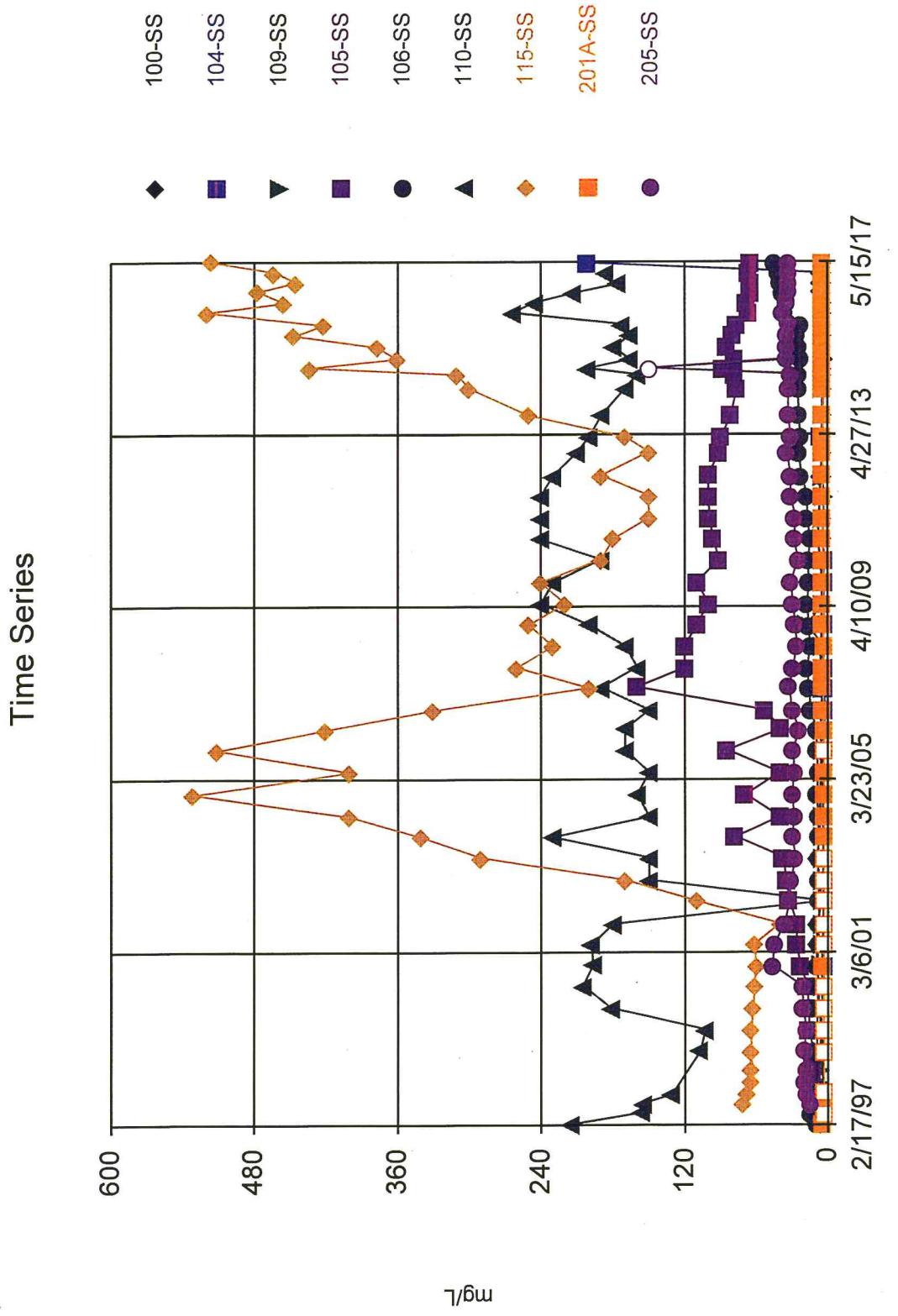
Constituent: Calcium Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series

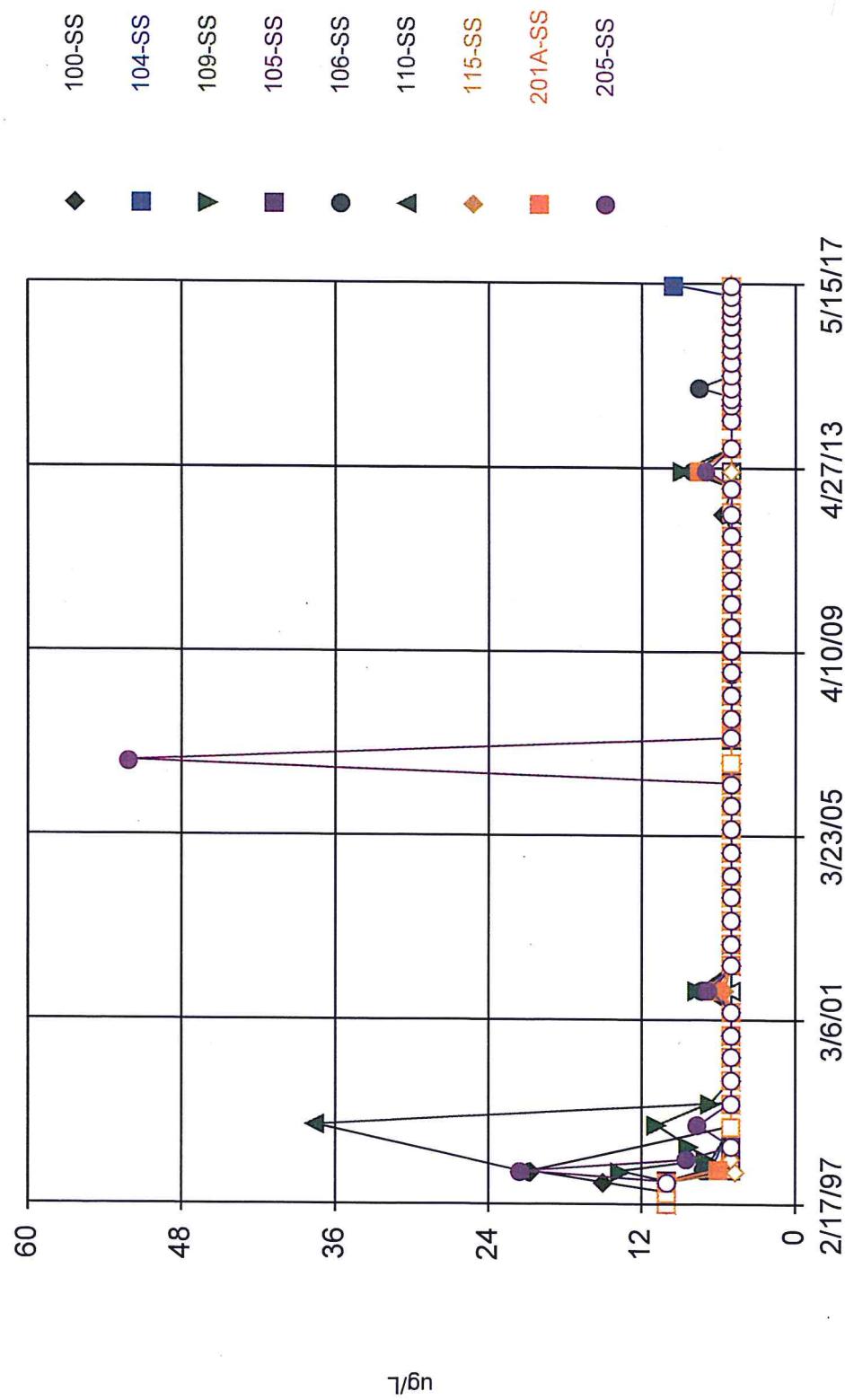


Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.



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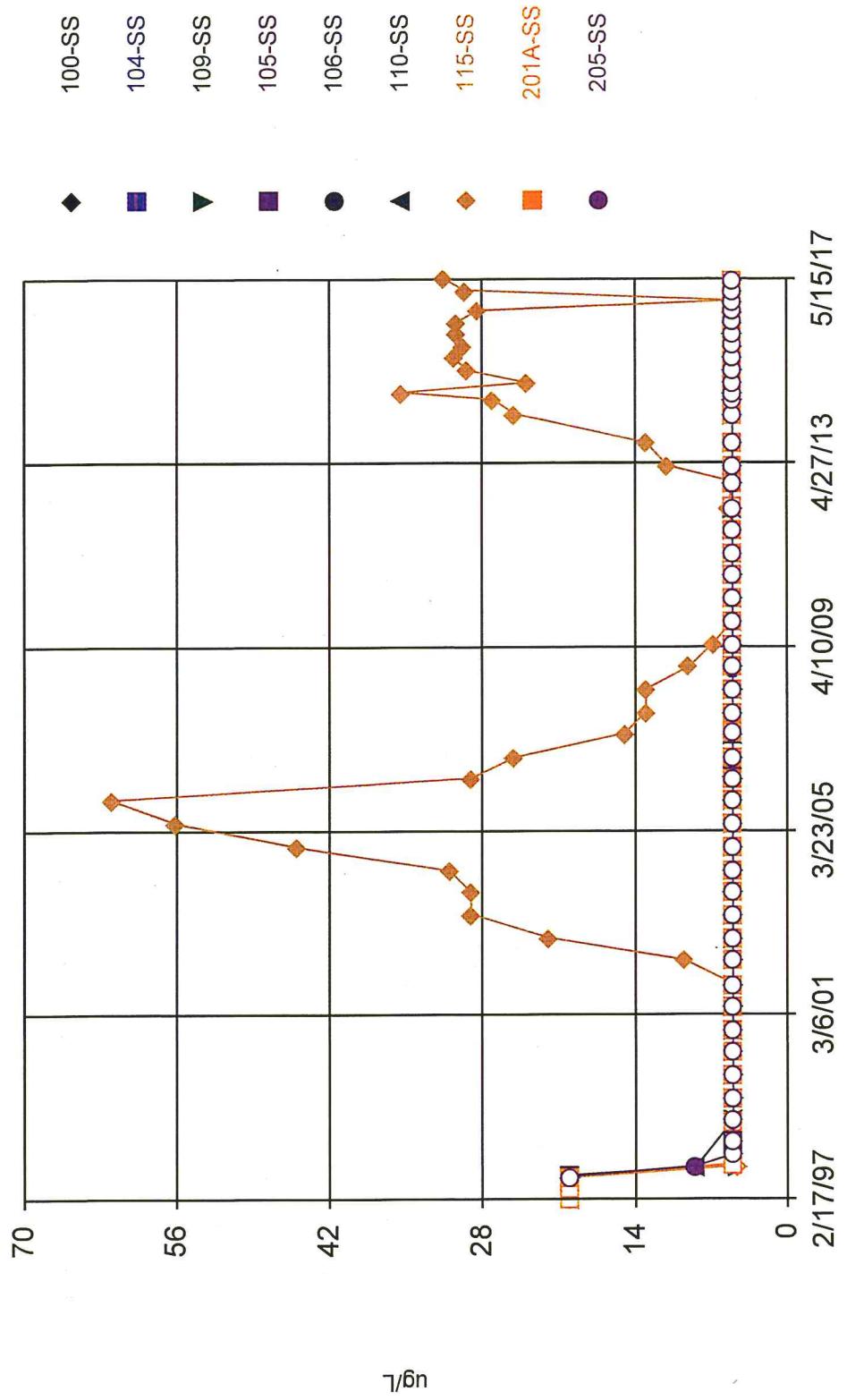
Time Series



Constituent: Chromium Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

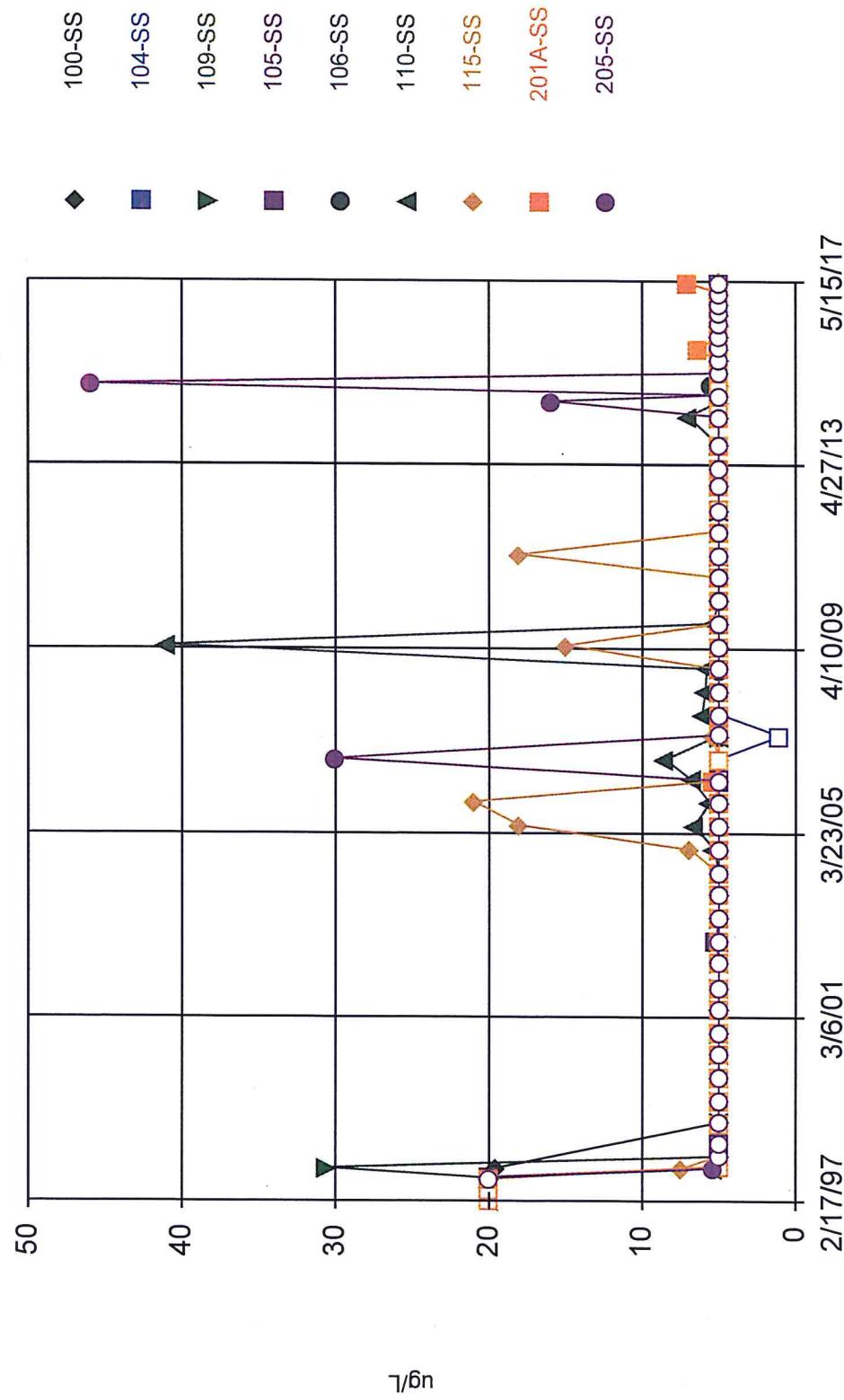
Time Series



Constituent: Cobalt Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

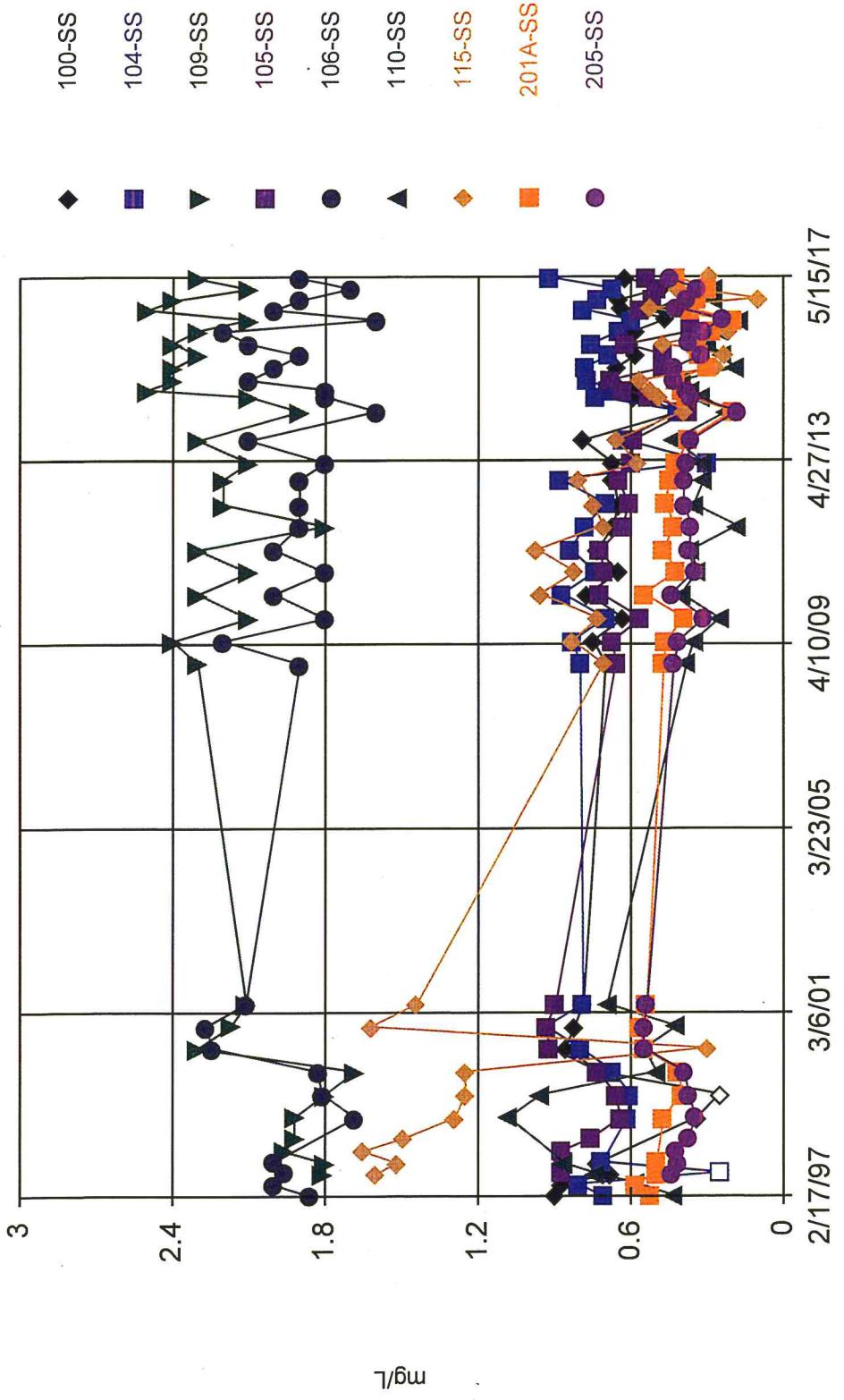
Time Series



Constituent: Copper Total Analysis Run 7/12/2017 12:00 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

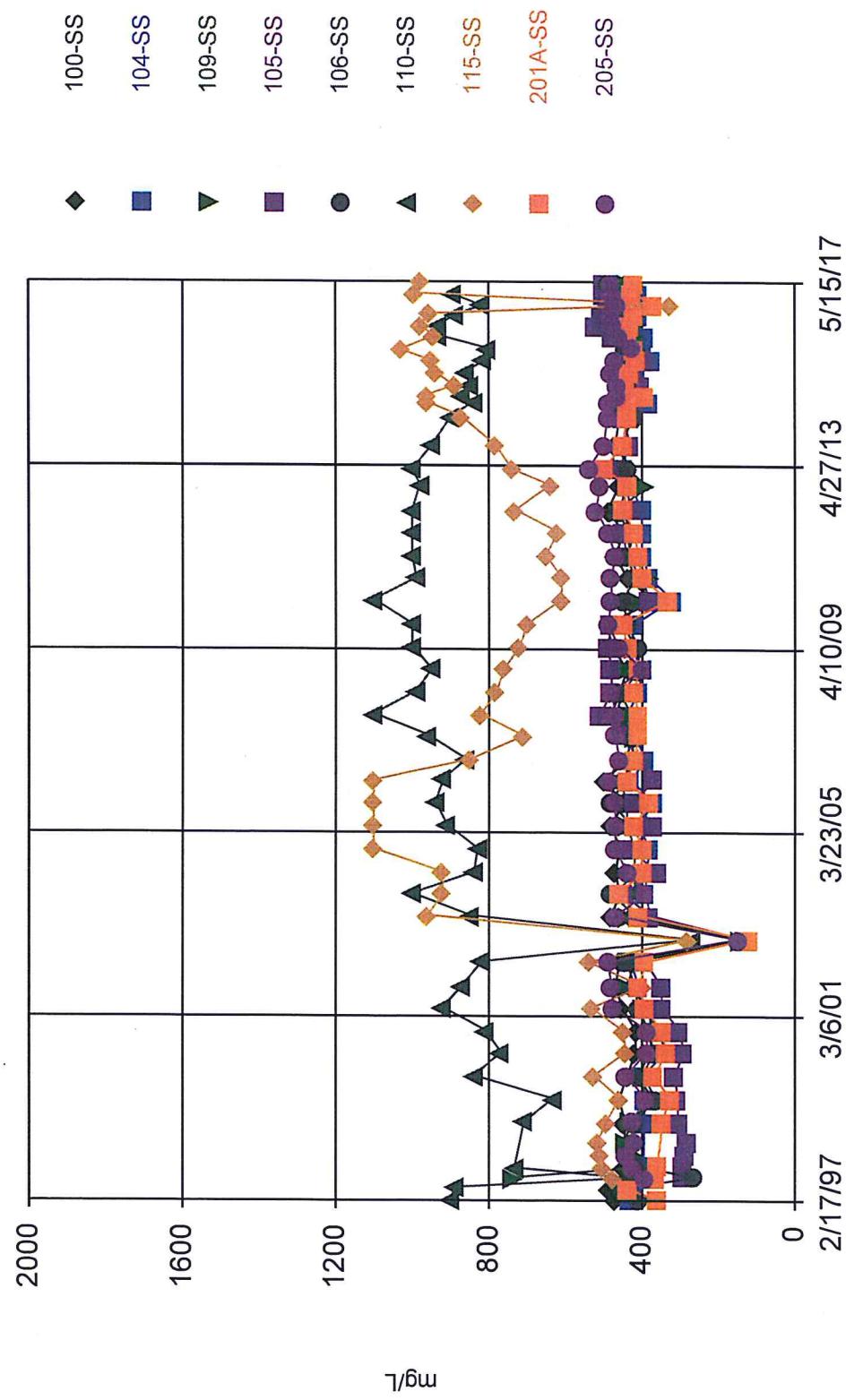
Sanitas™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

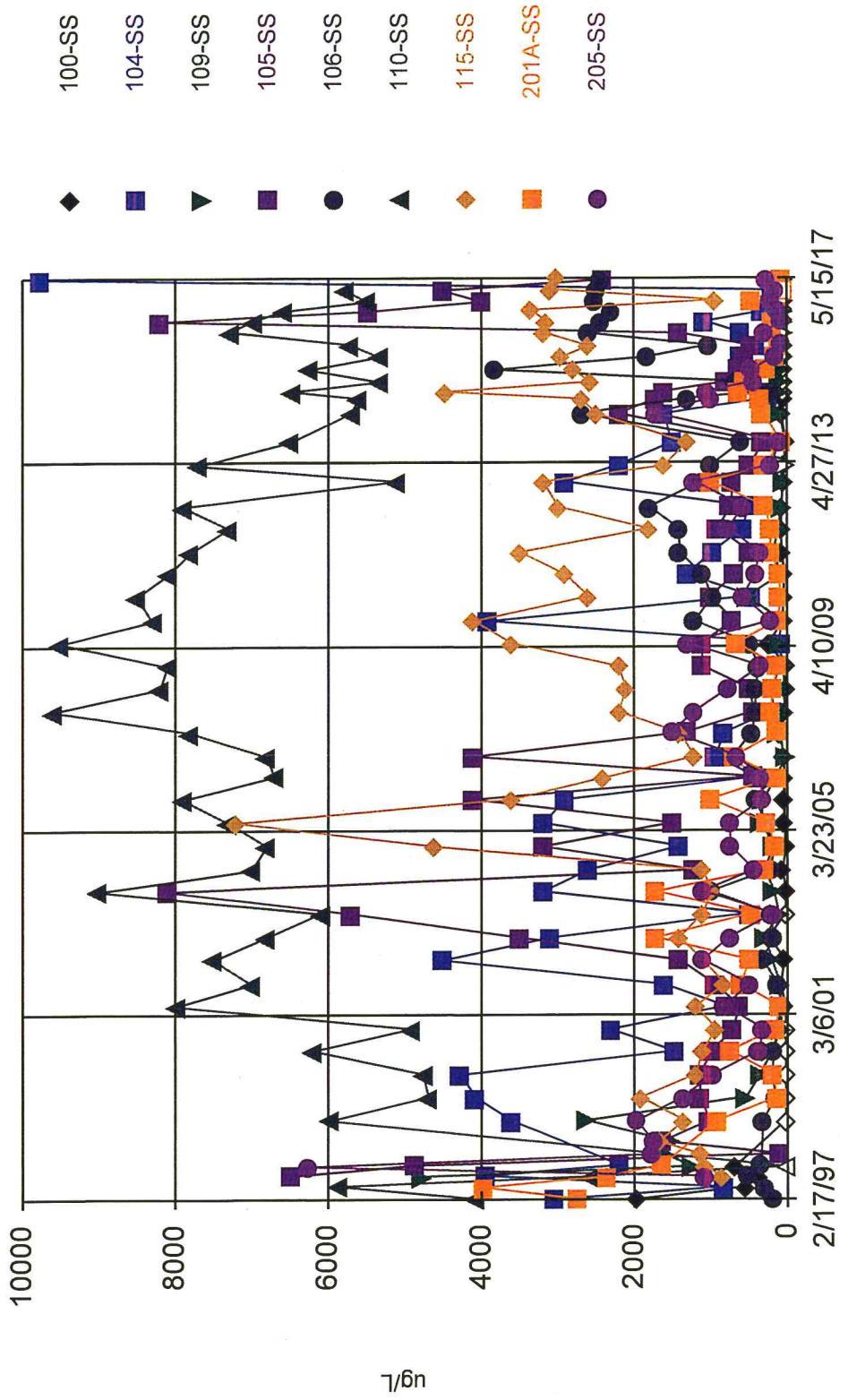
Time Series



Constituent: Hardness Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

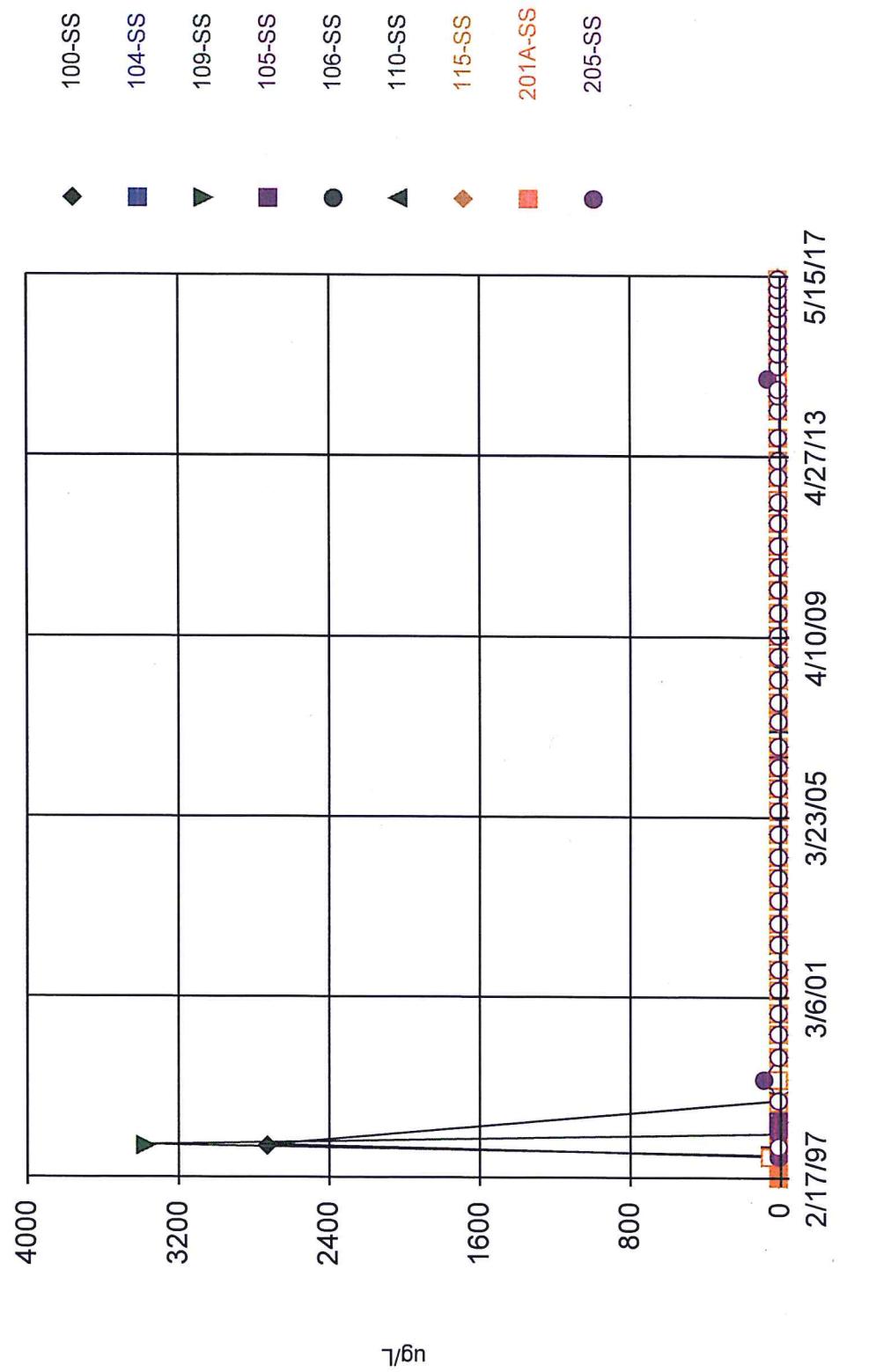
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



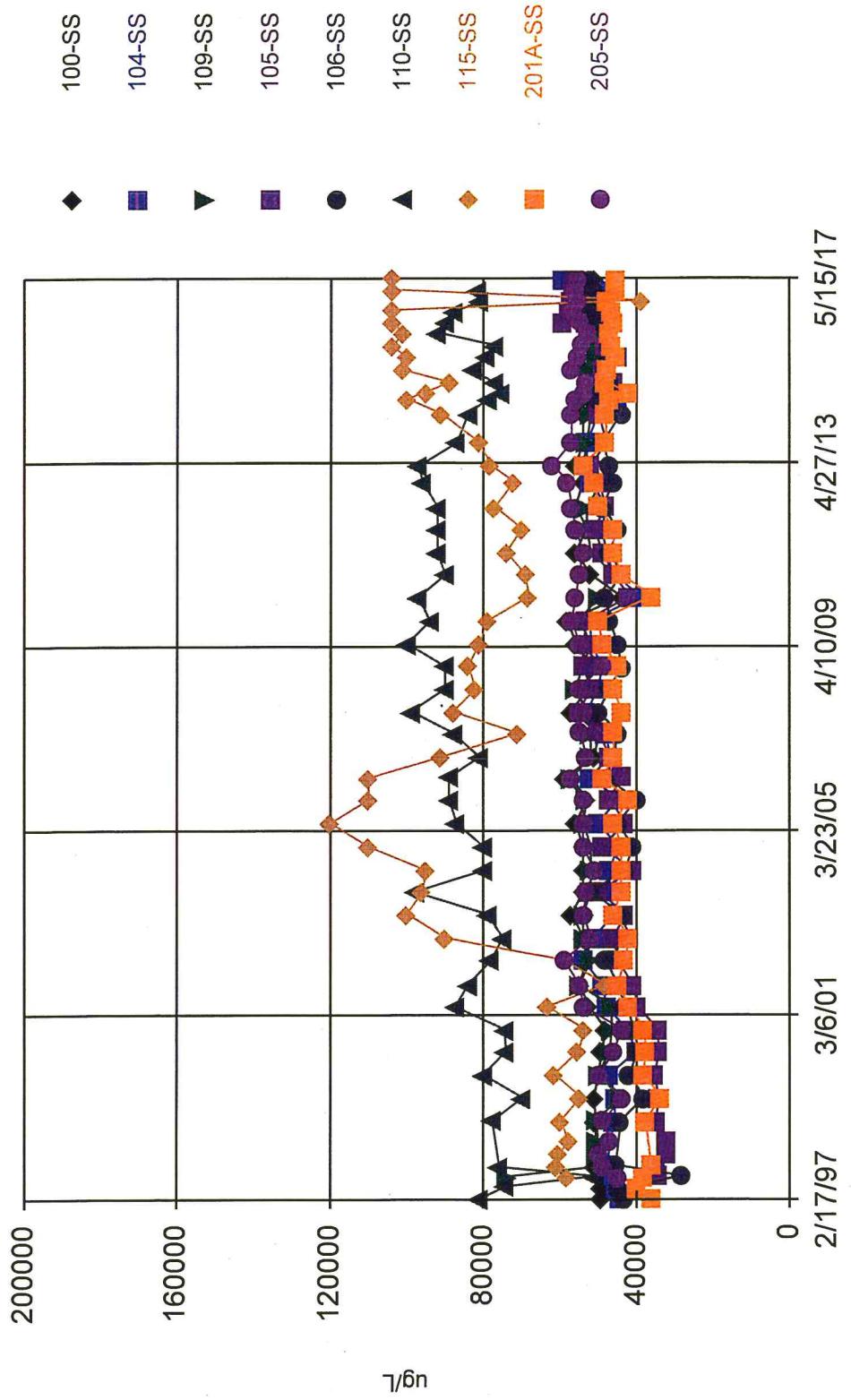
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

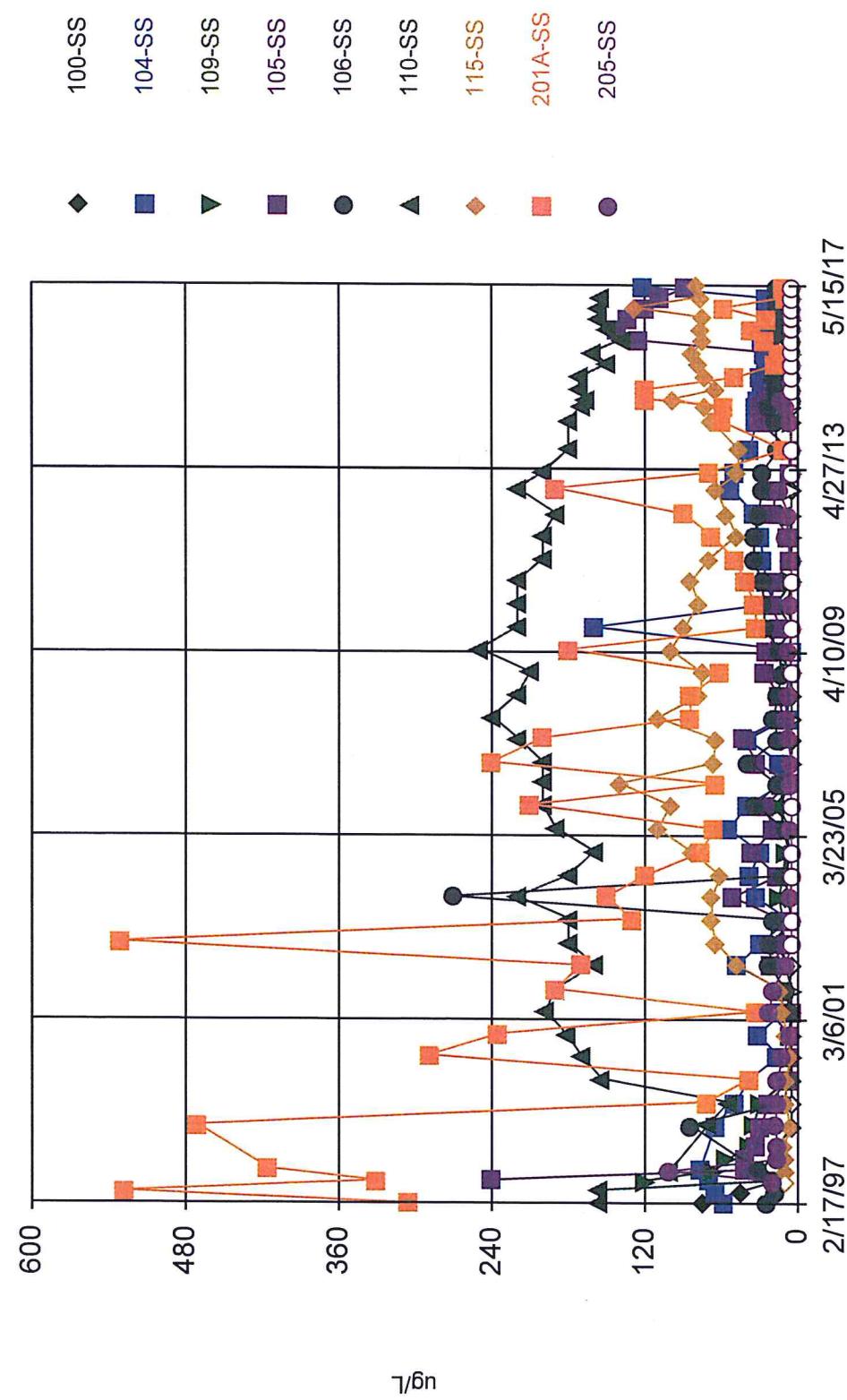
Time Series



Constituent: Magnesium Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

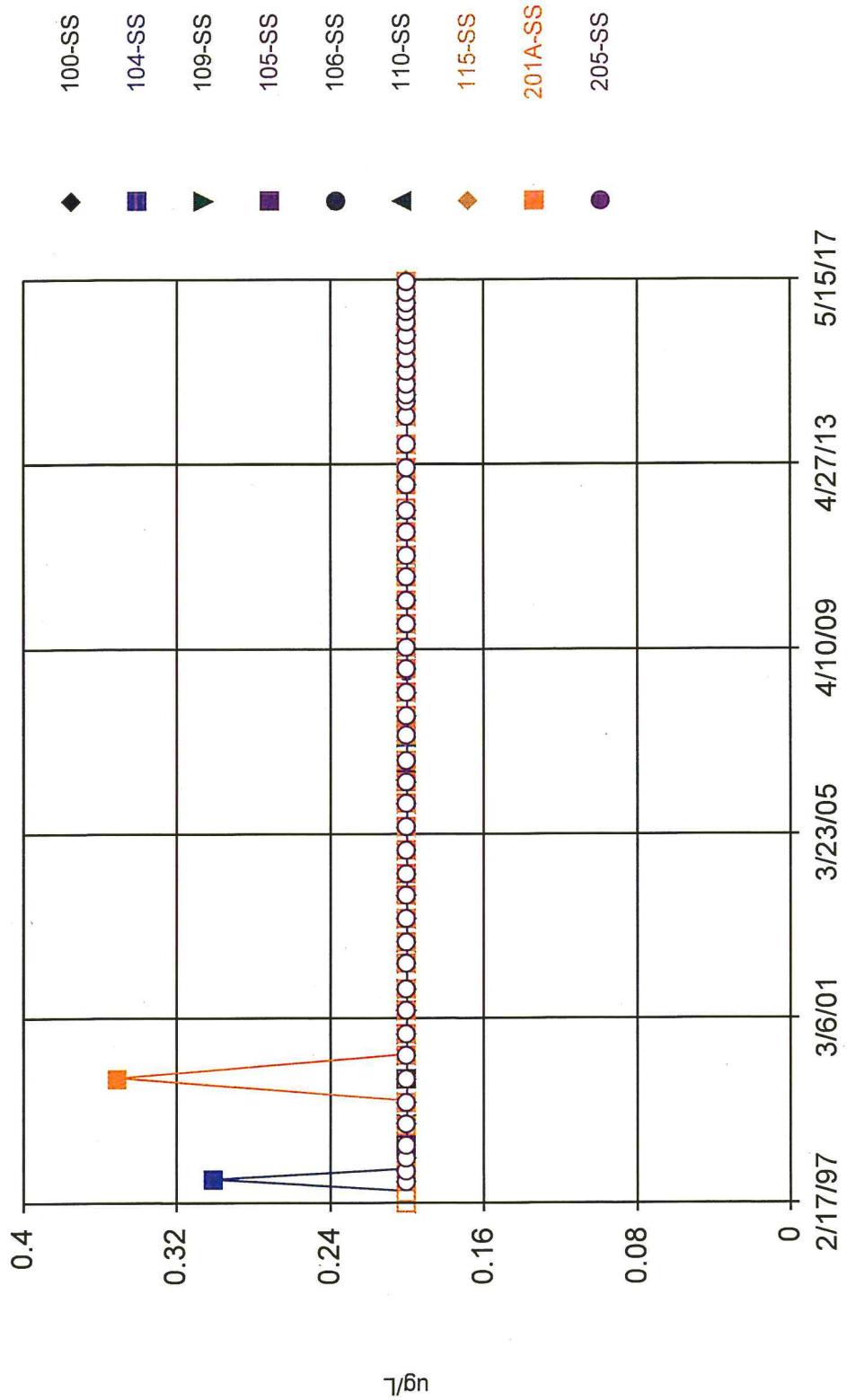
Time Series



Constituent: Manganese Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

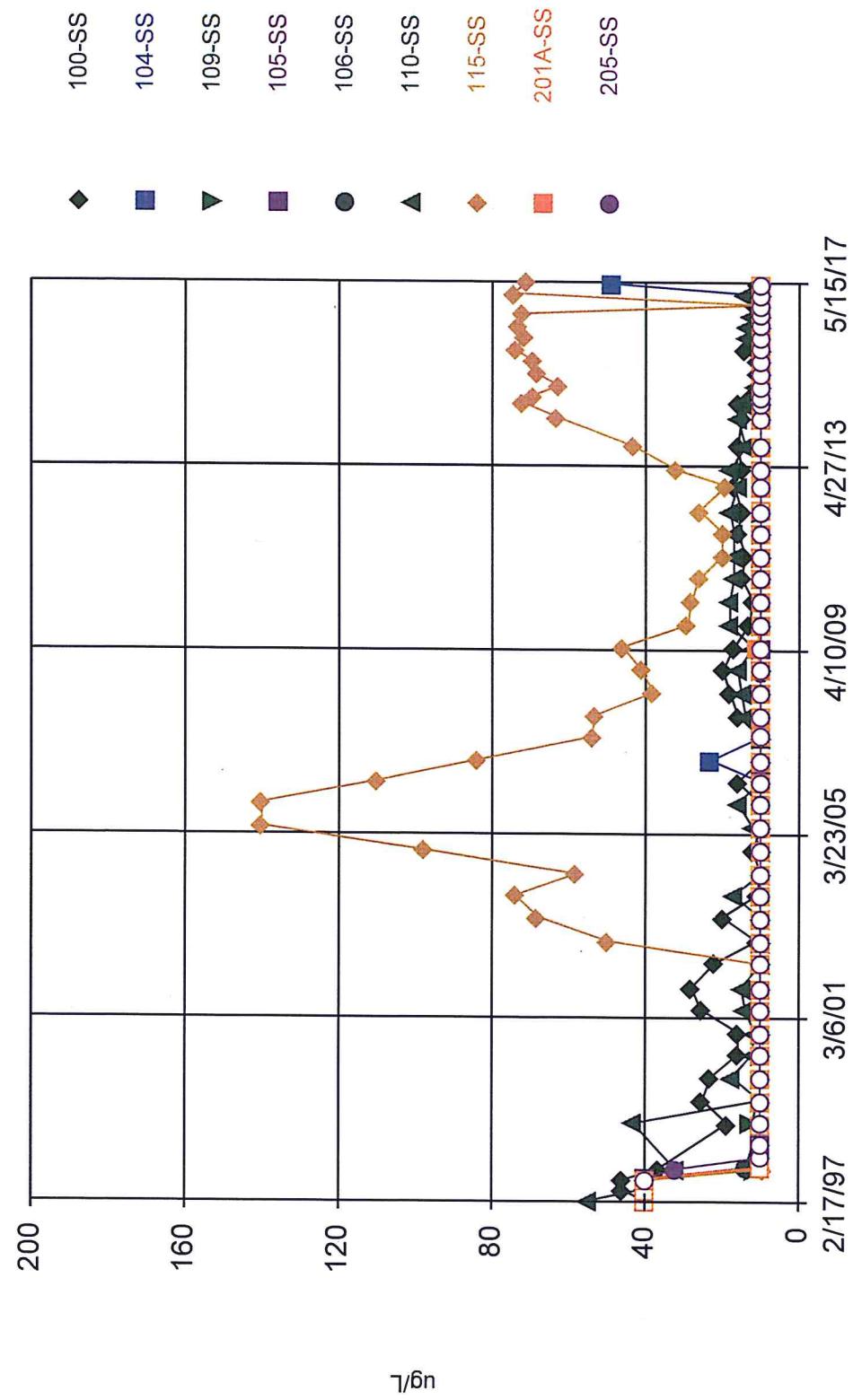
Time Series



Constituent: Mercury Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

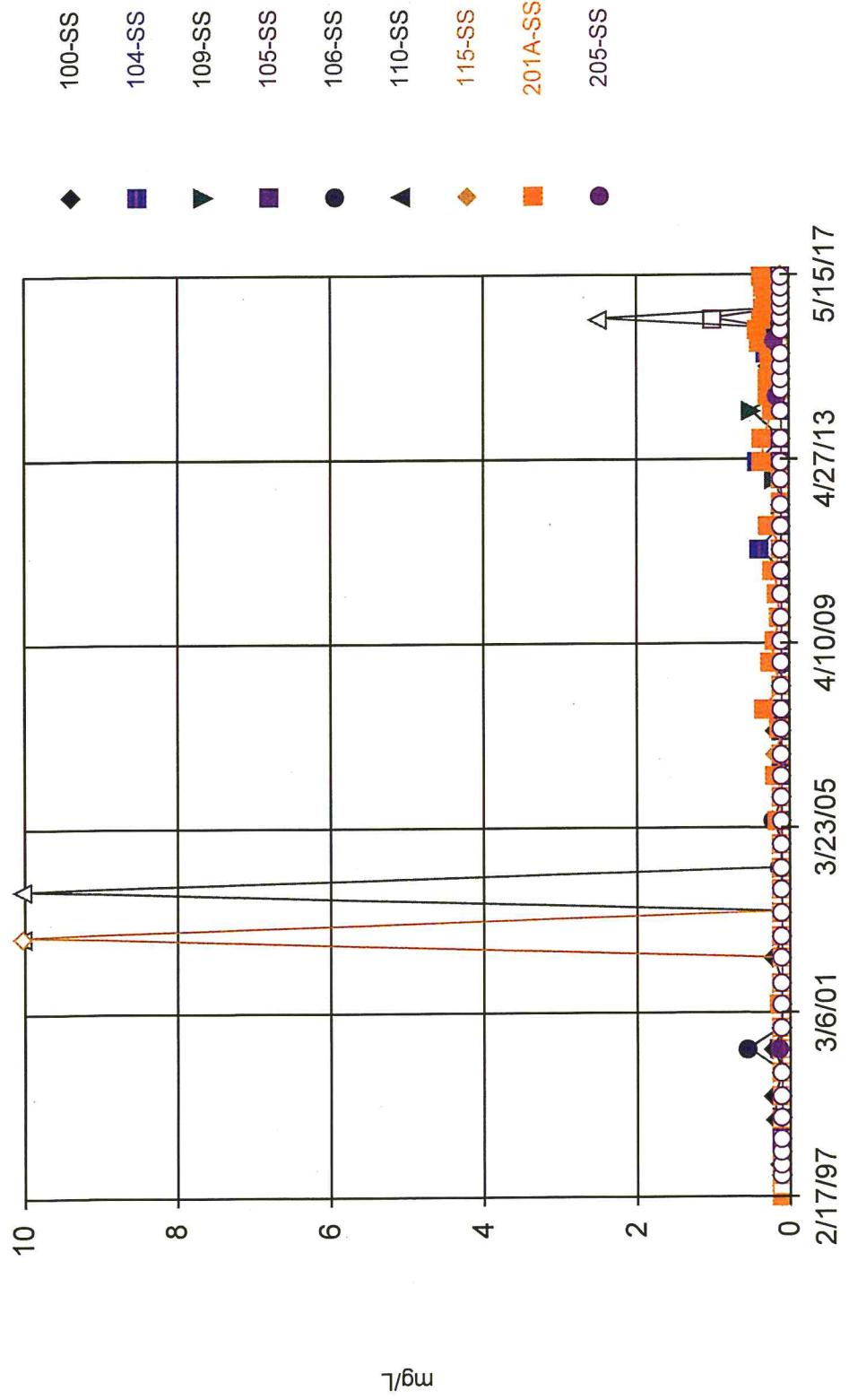
Time Series



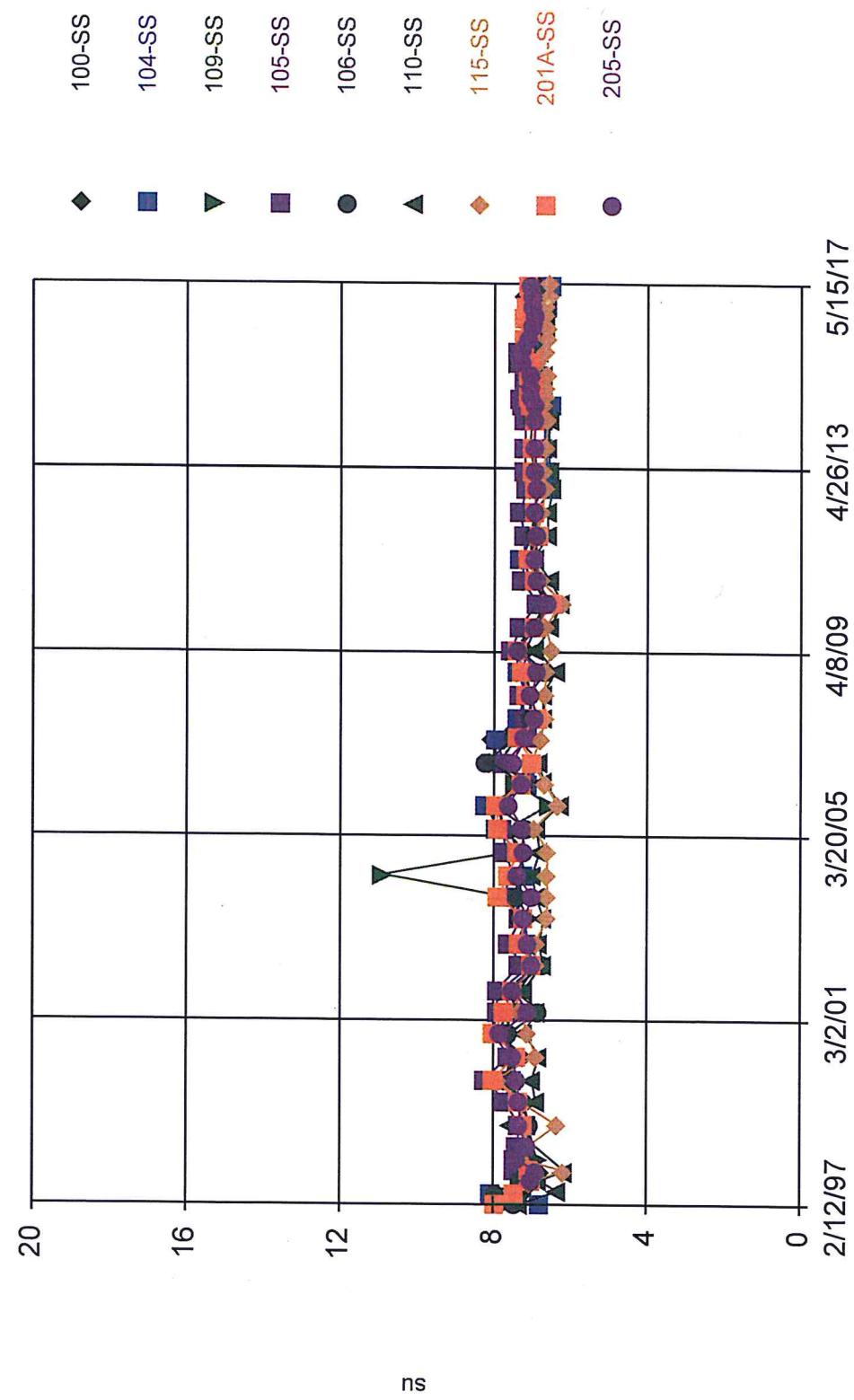
Constituent: Nickel Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series



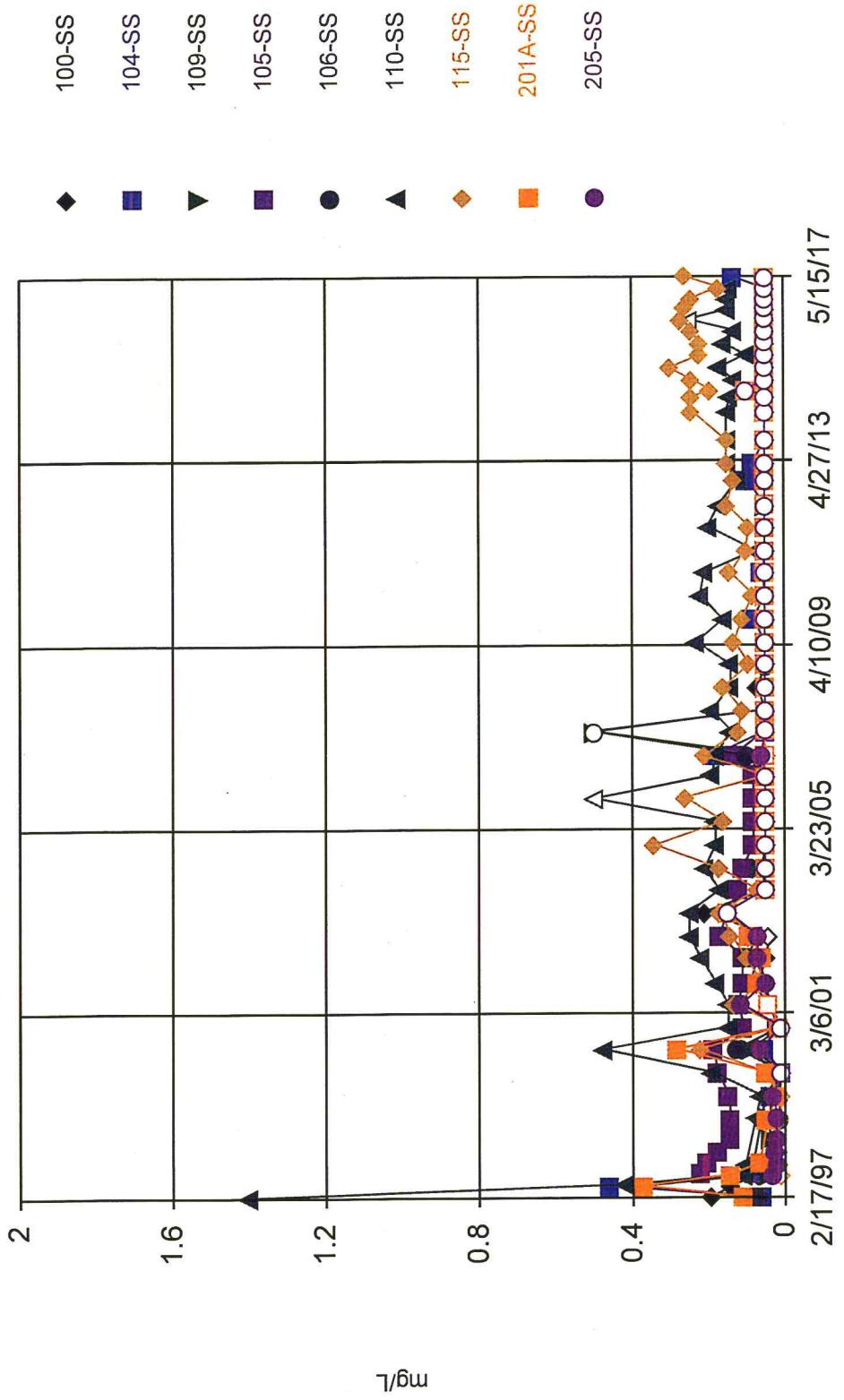
Time Series



Constituent: pH [Field] Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

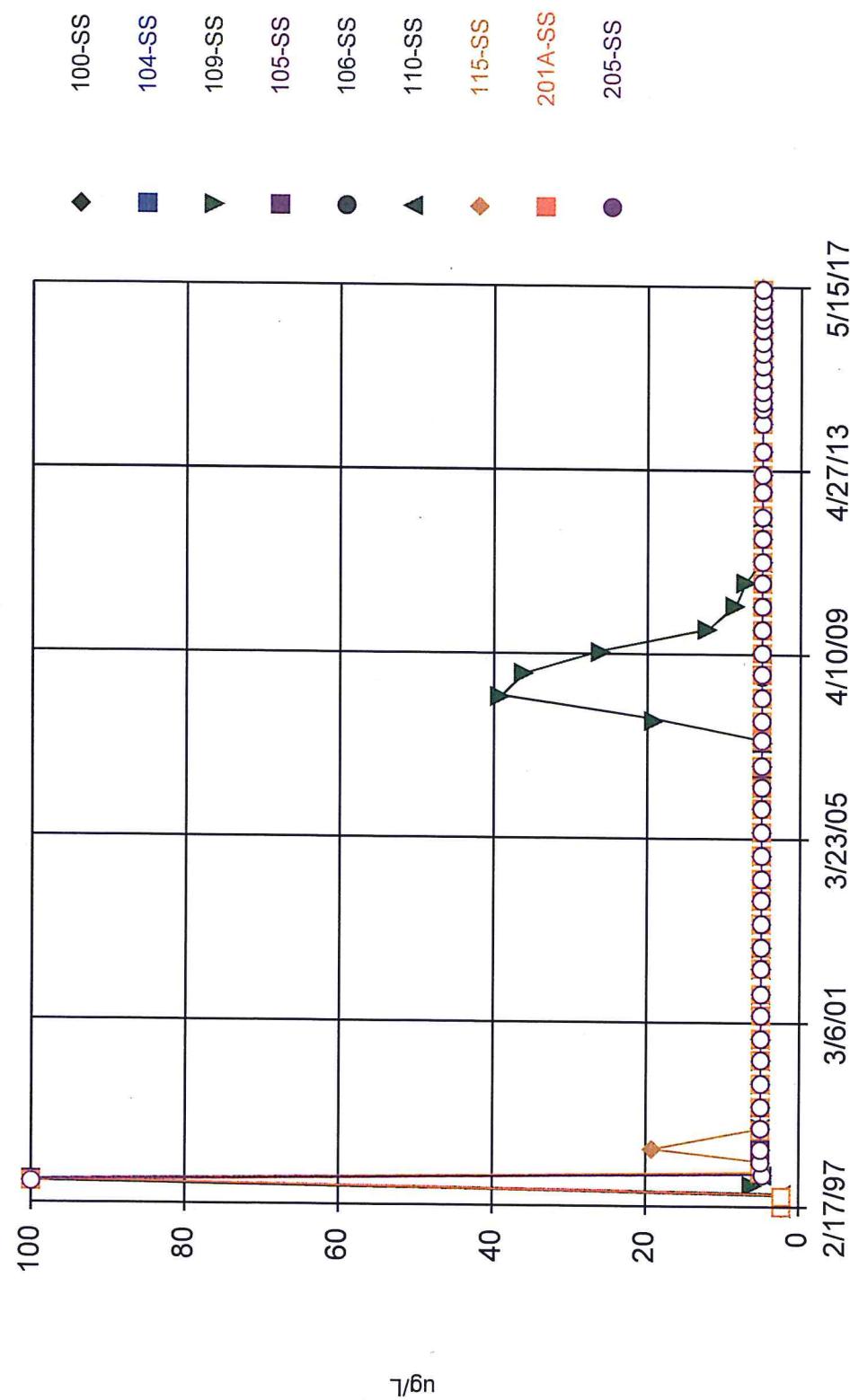
Time Series



Constituent: Phosphorus Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

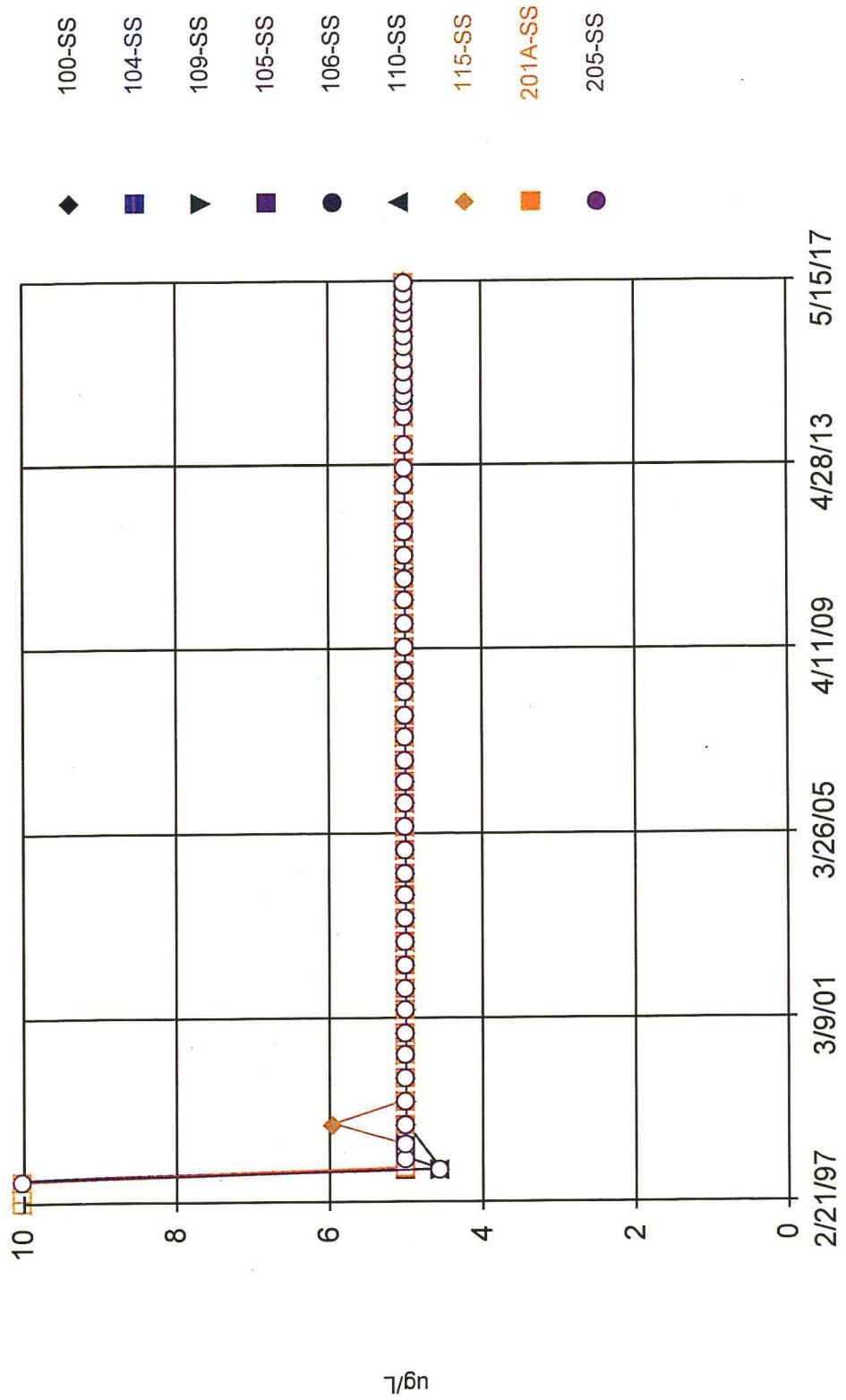
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



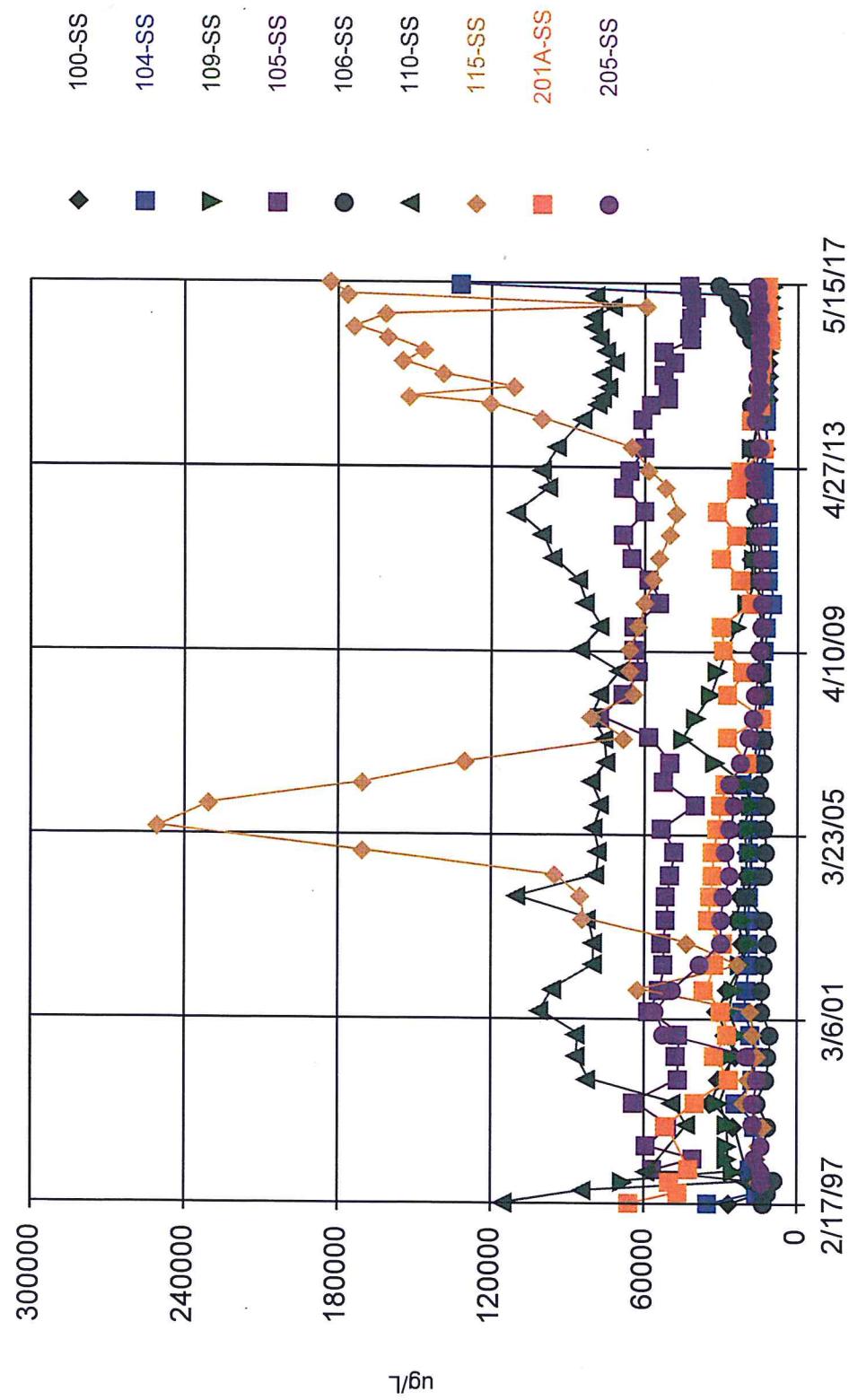
Sanitas™ v. 9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

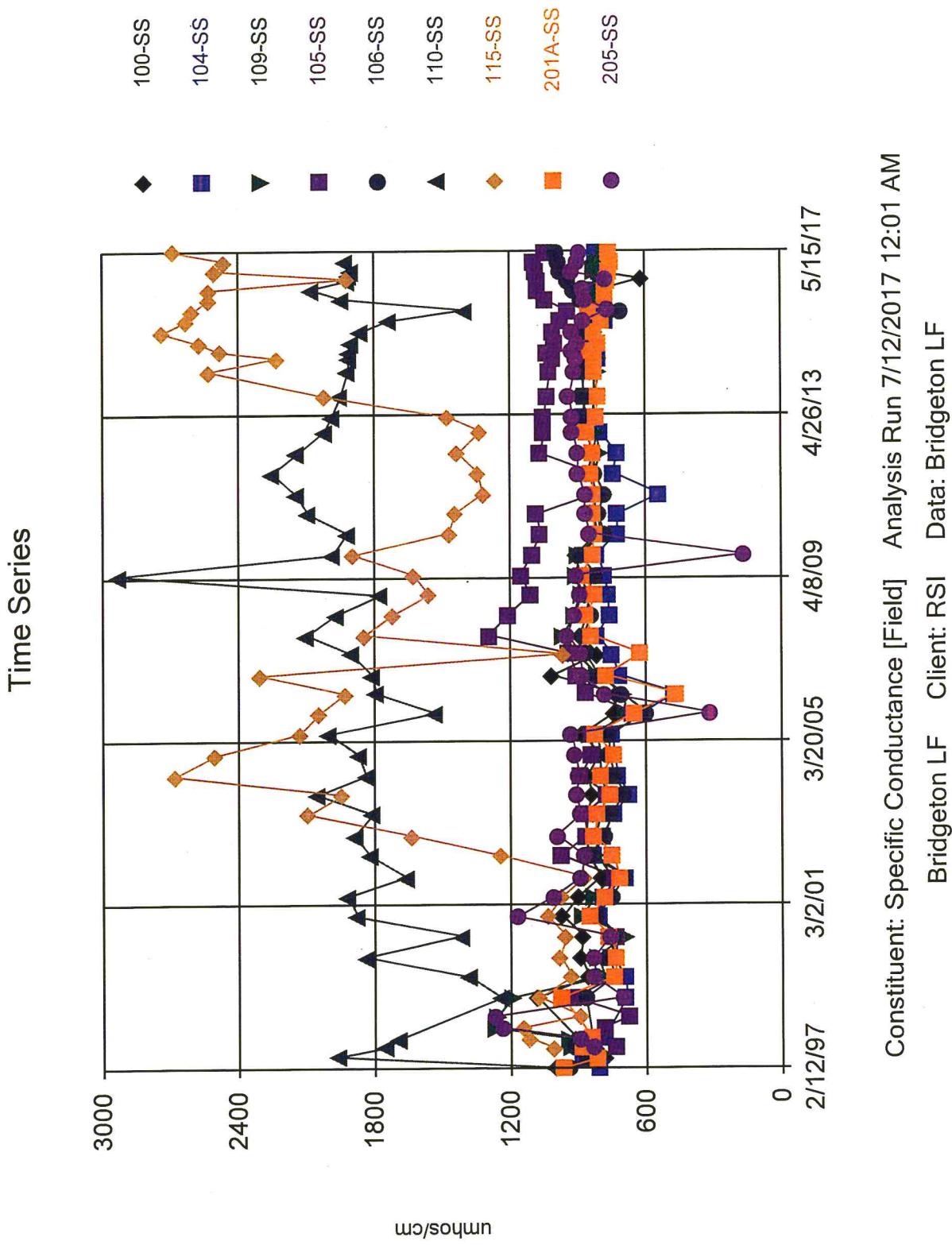
Time Series



Constituent: Silver Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

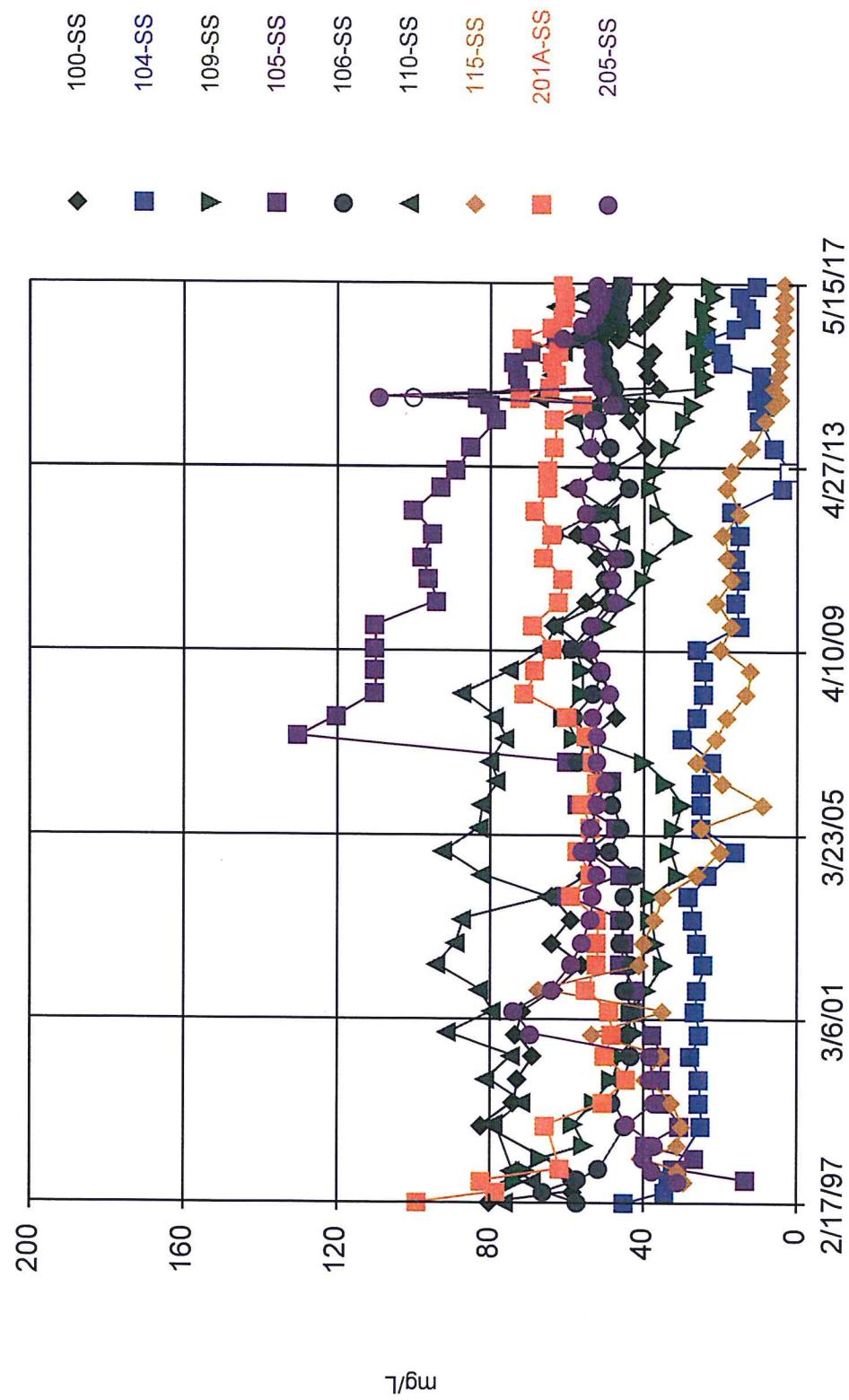
Time Series





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

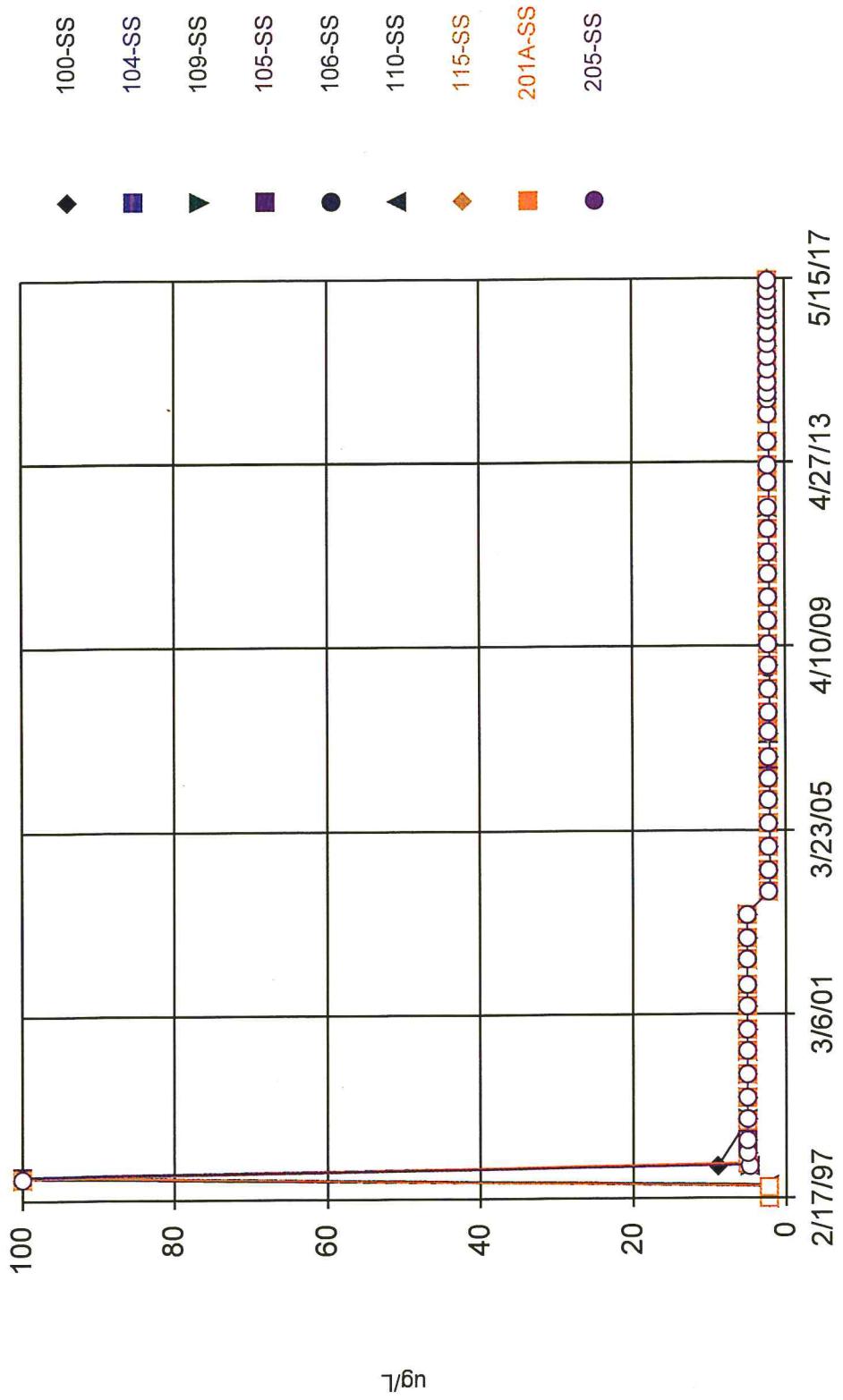
Time Series



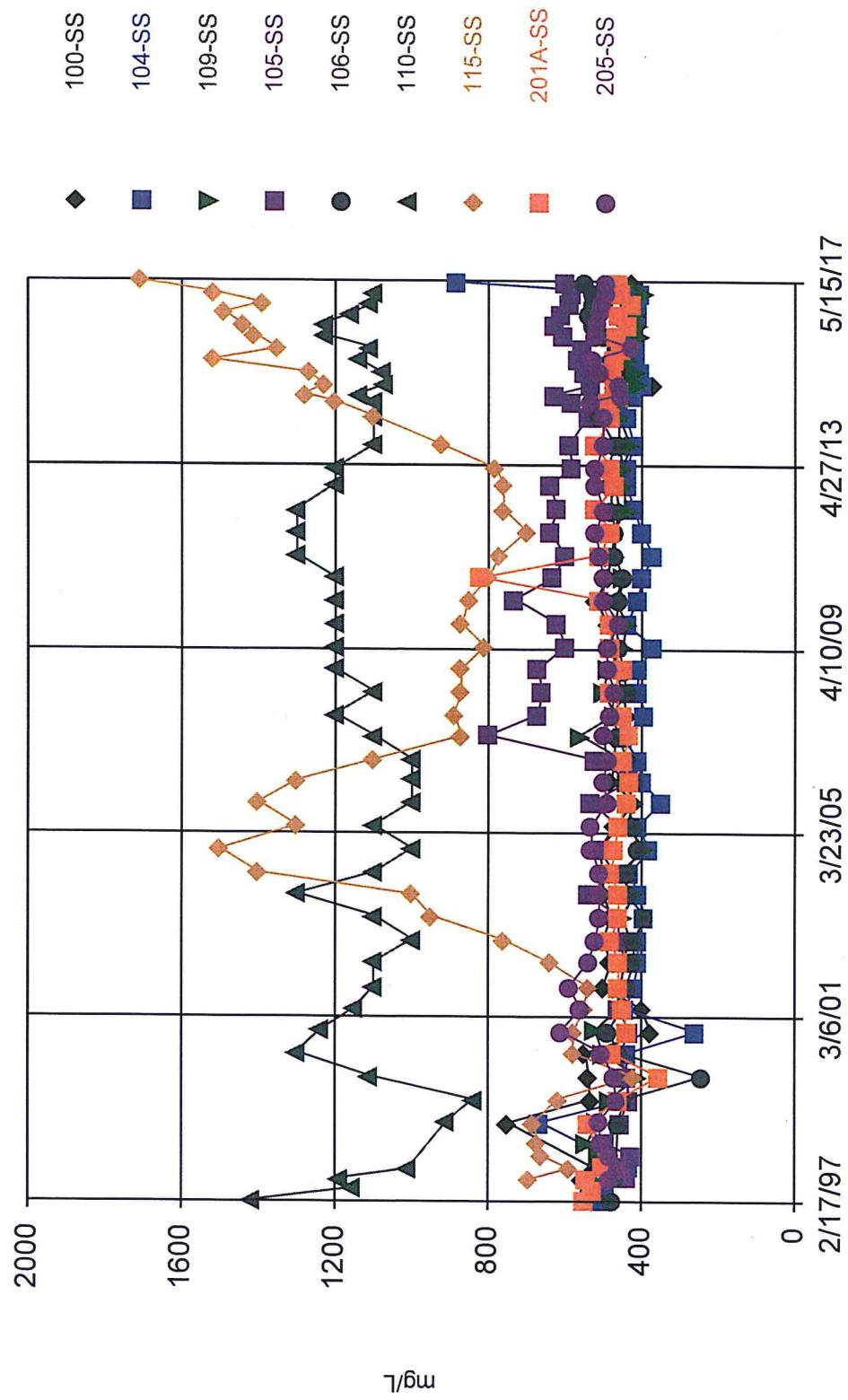
Constituent: Sulfate Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series



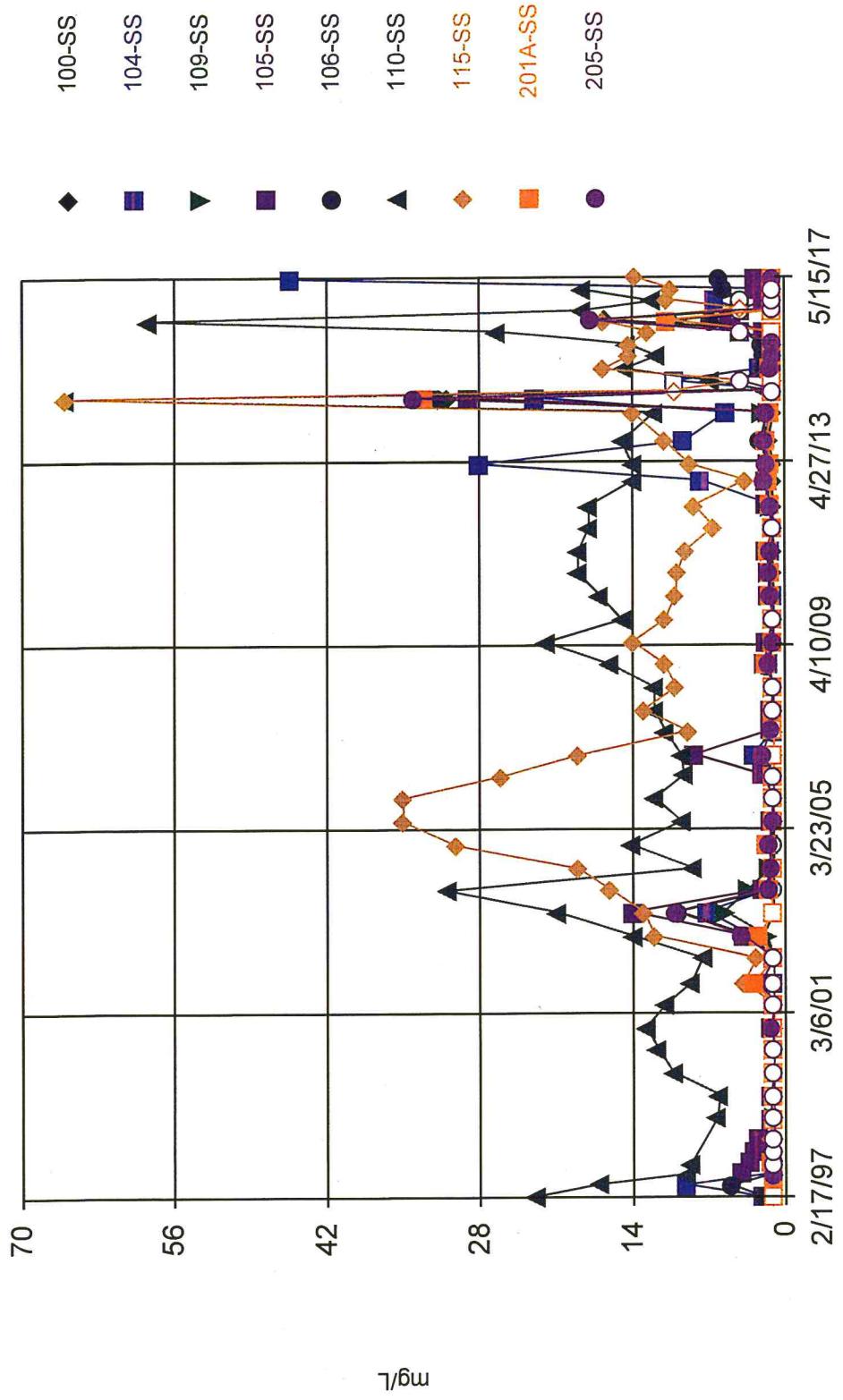
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

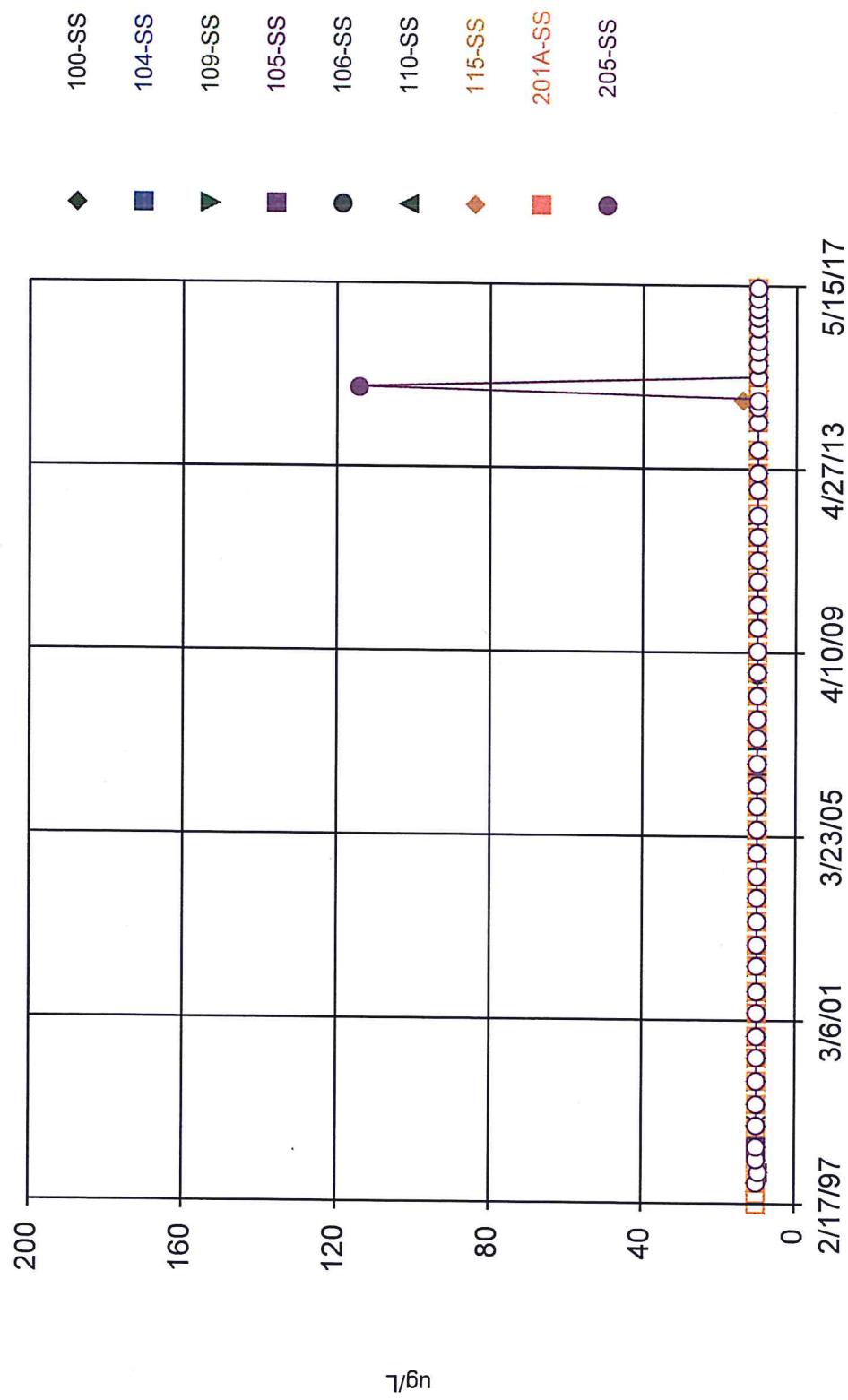
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

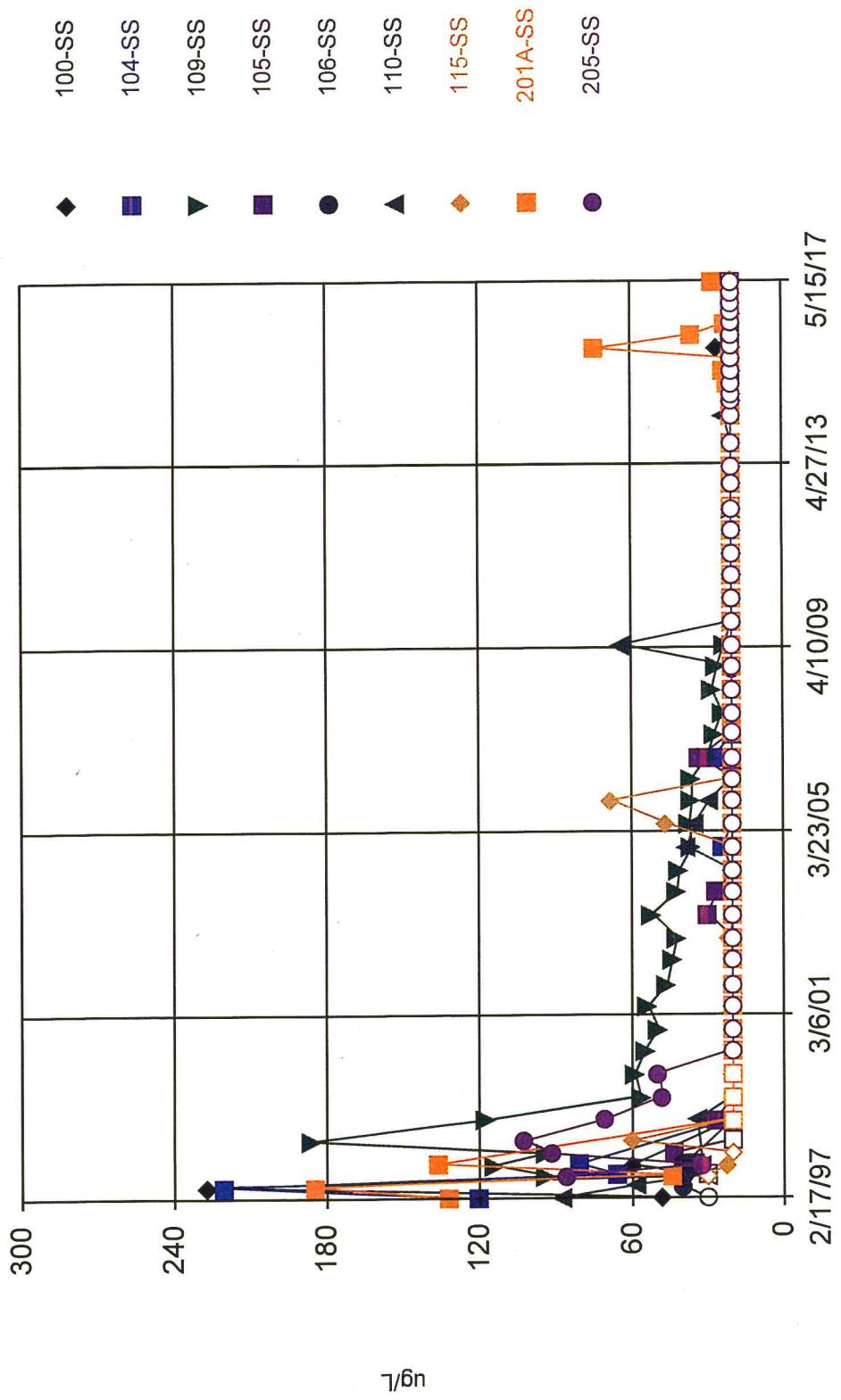
Time Series



Constituent: Vanadium Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

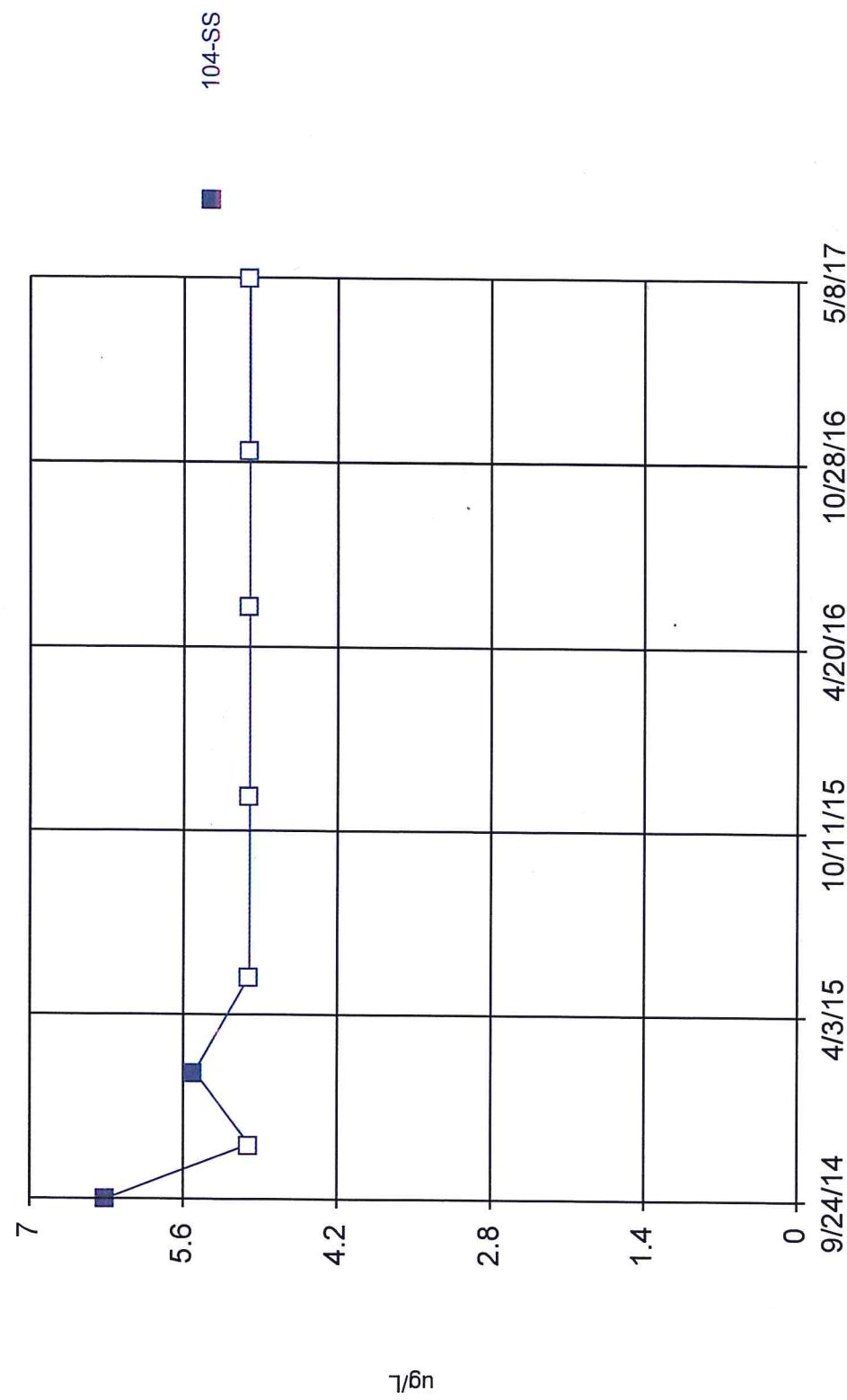
Time Series



Constituent: Zinc Total Analysis Run 7/12/2017 12:01 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

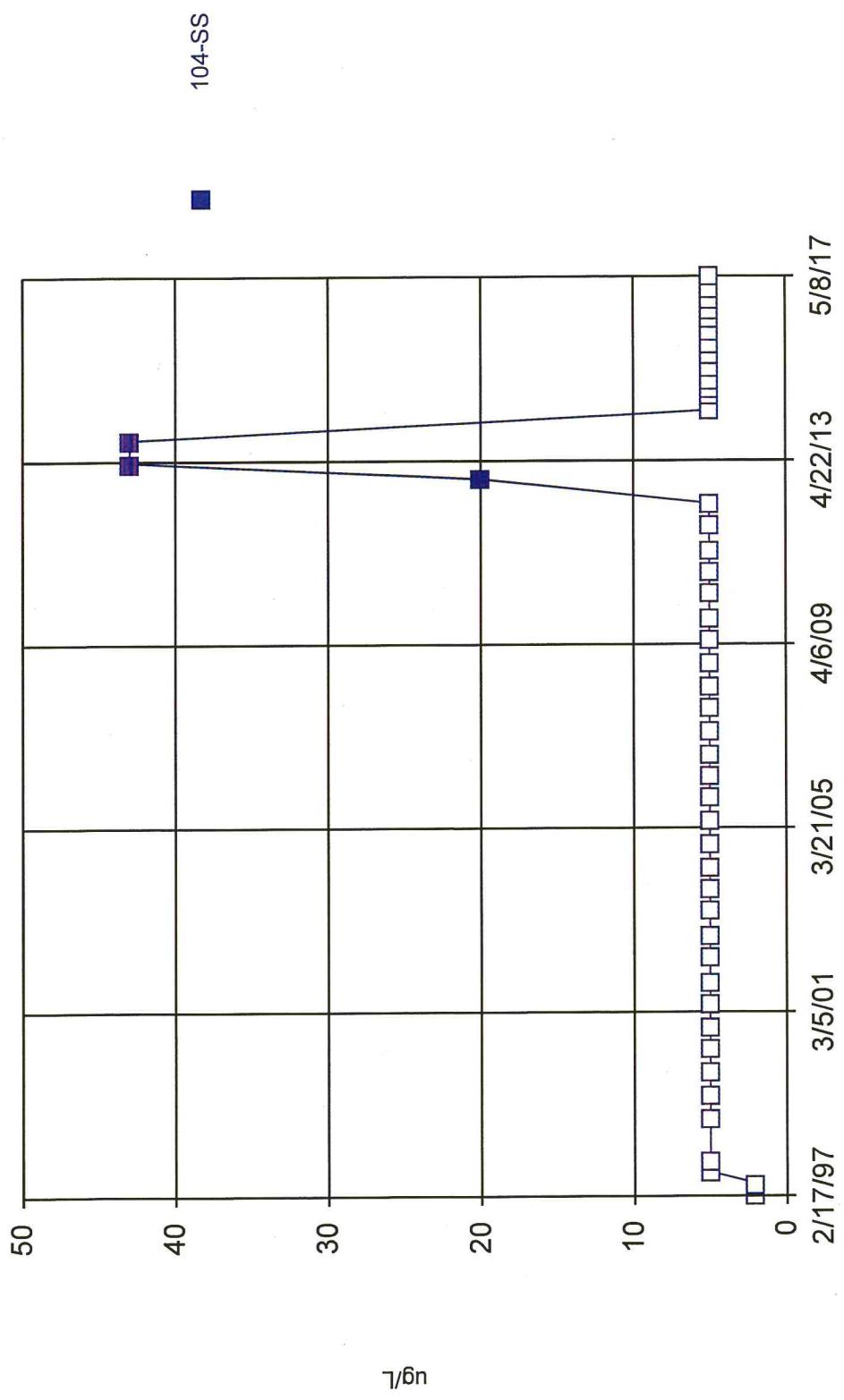
Time Series



Constituent: 124-Trimethylbenzene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

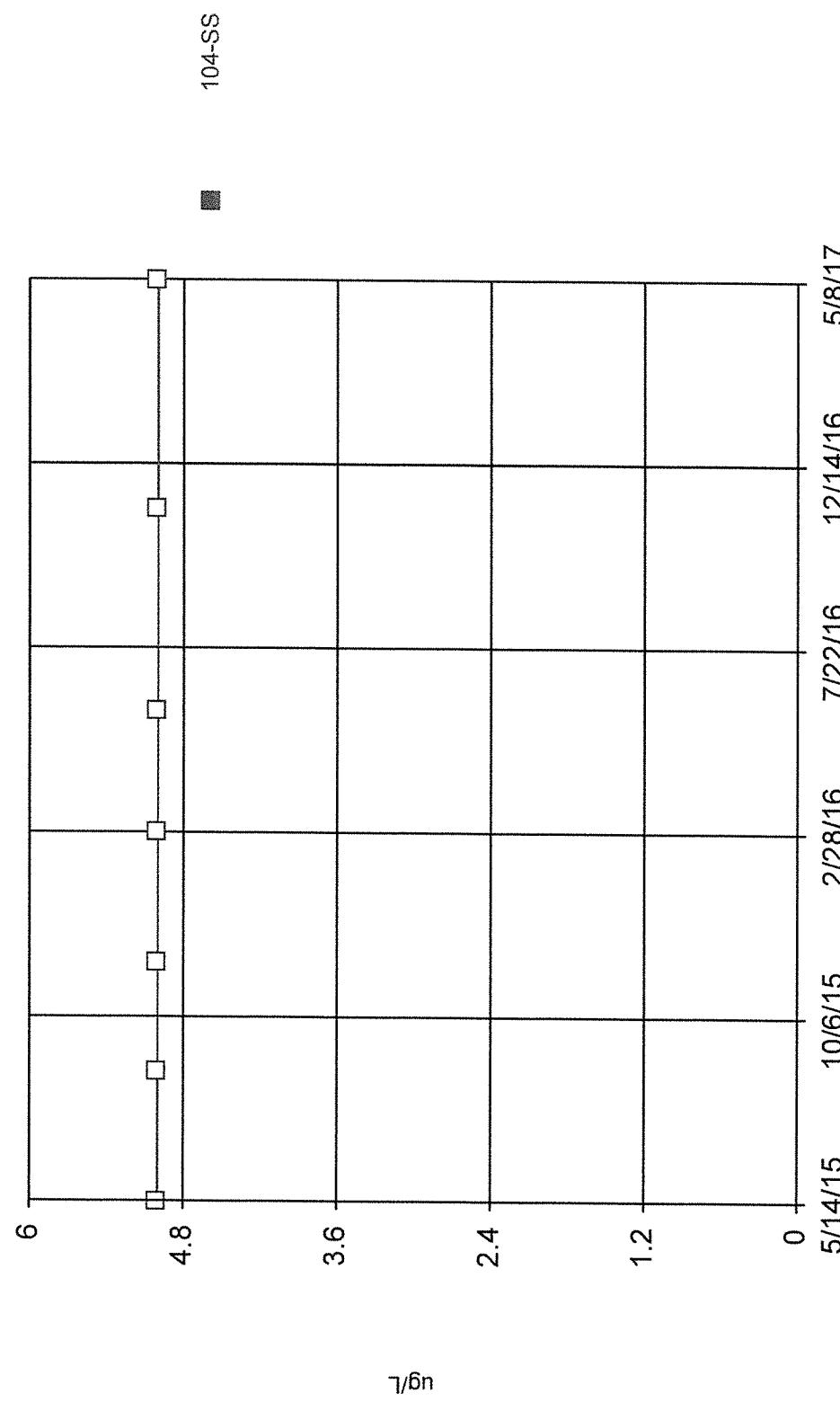
Time Series



Constituent: 12-Dichloroethane Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

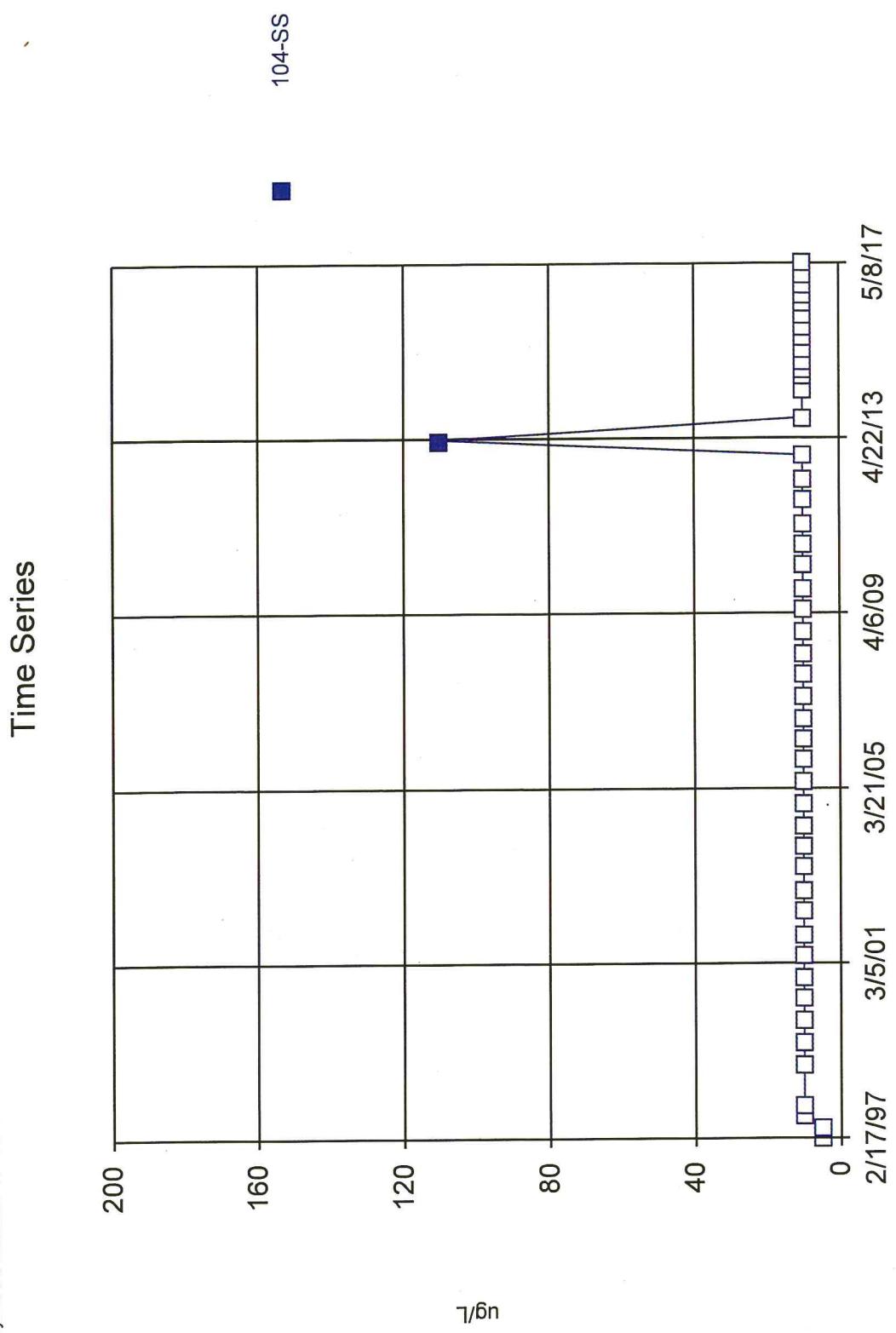
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



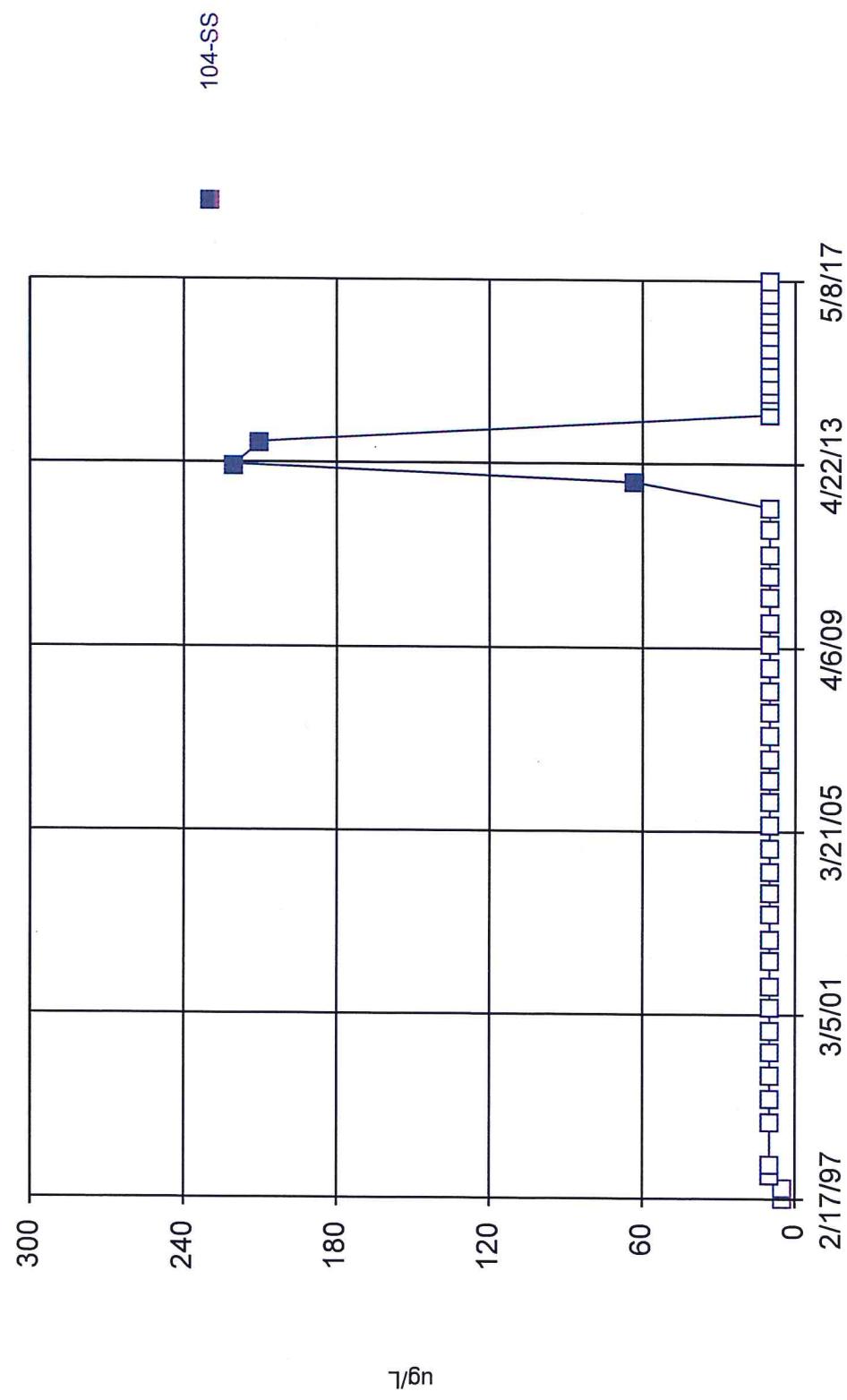
Constituent: 1-Chlorobutane Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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



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

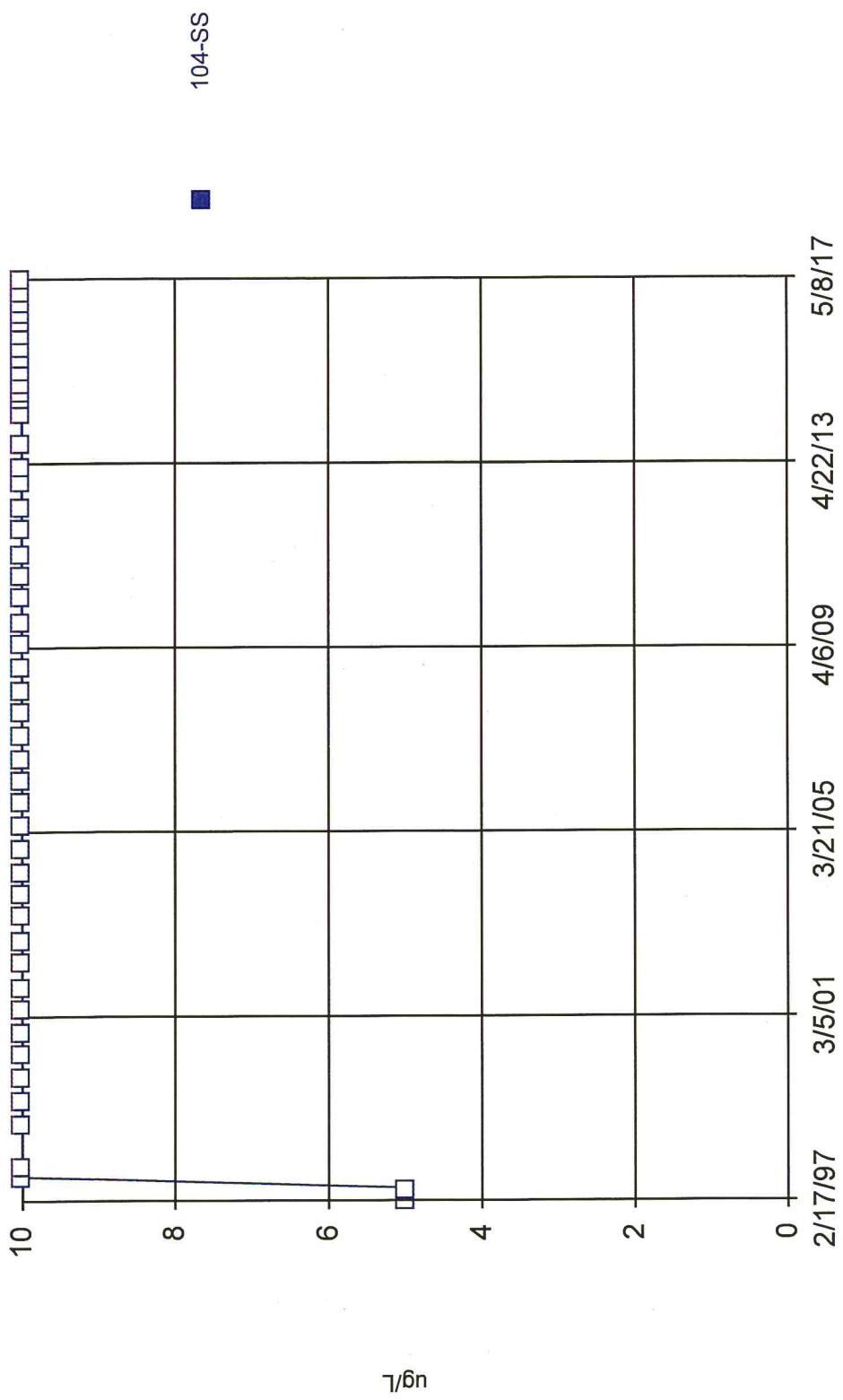
Time Series



Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

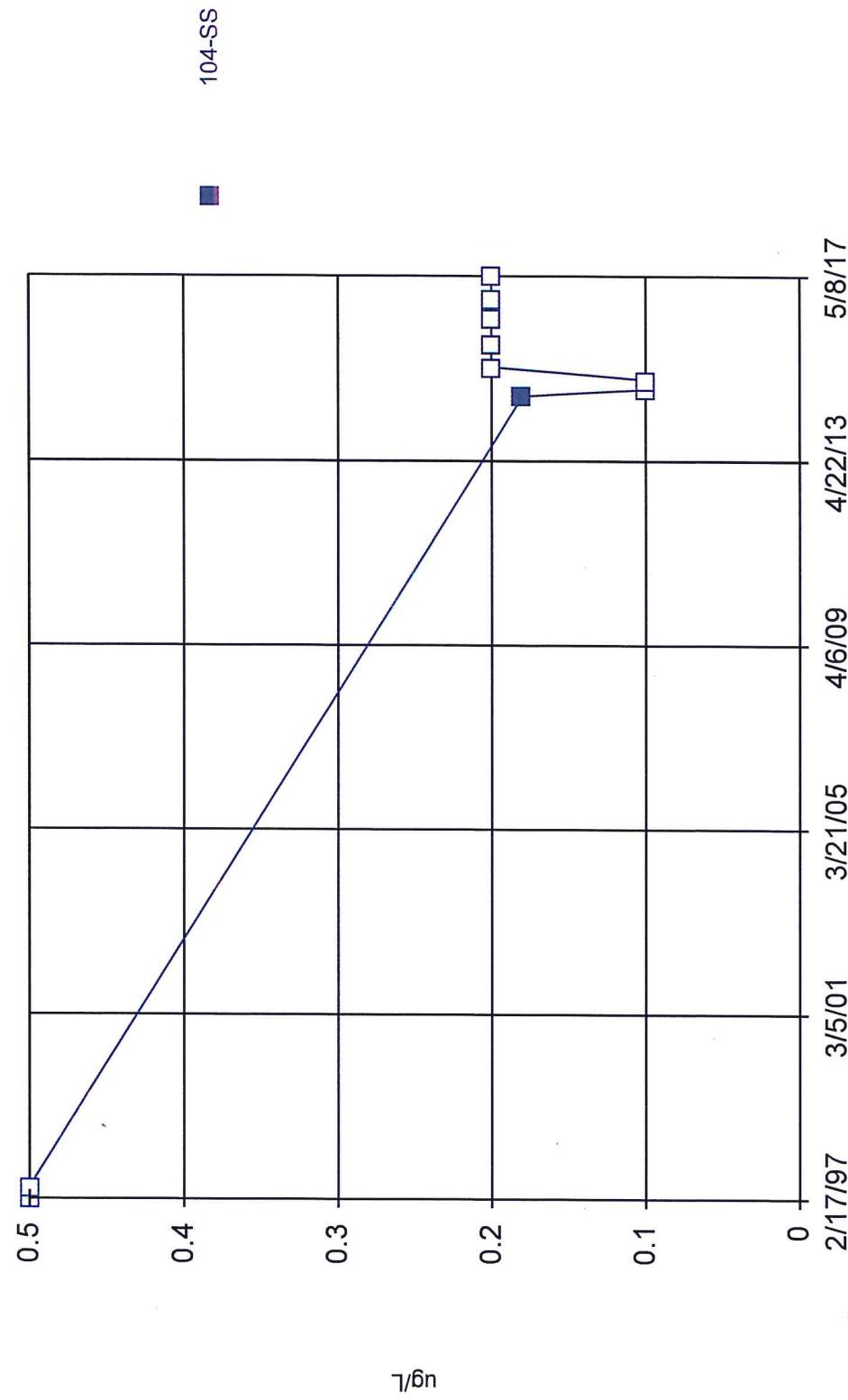
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



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

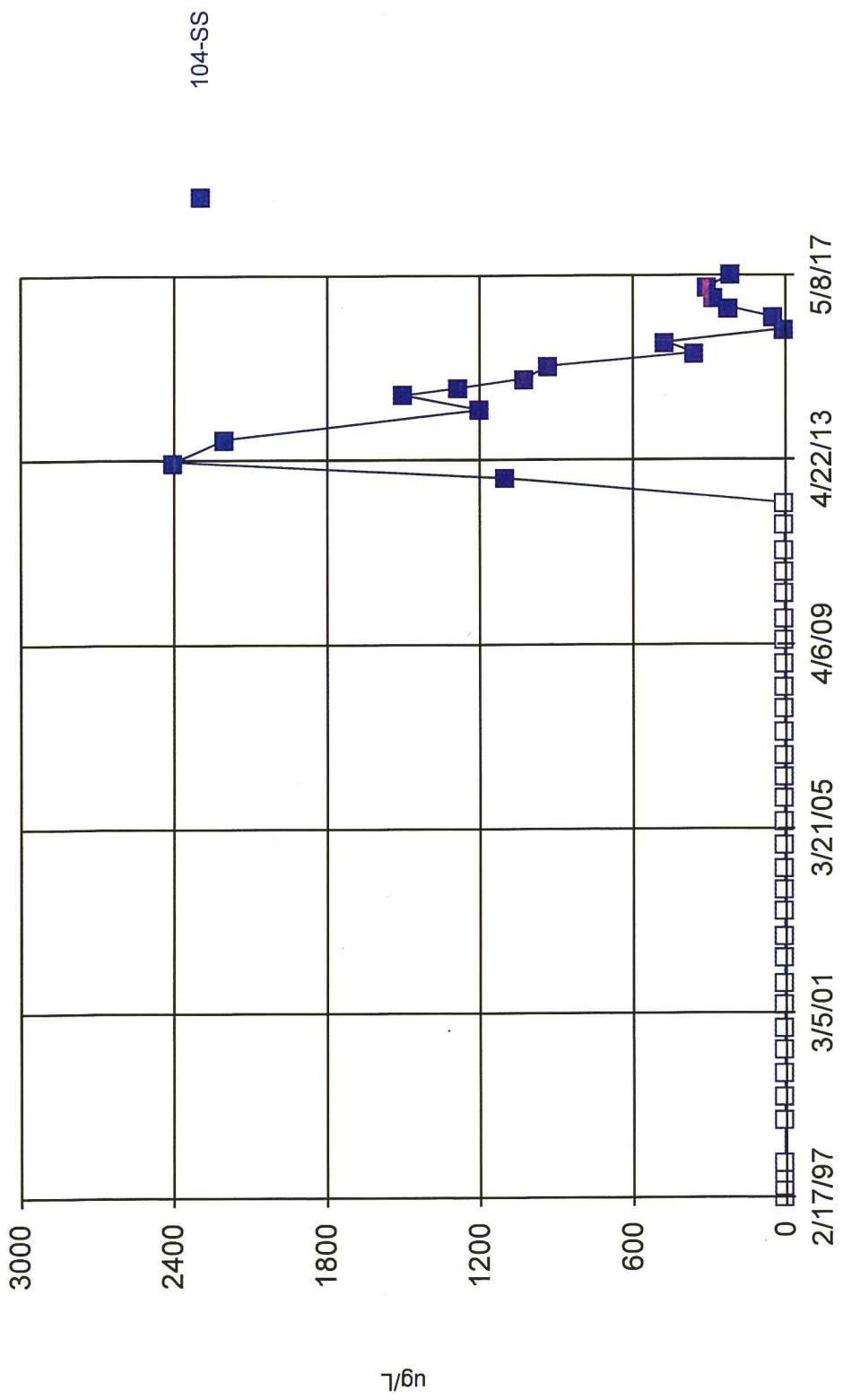
Time Series



Constituent: Aroclor 1221 Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

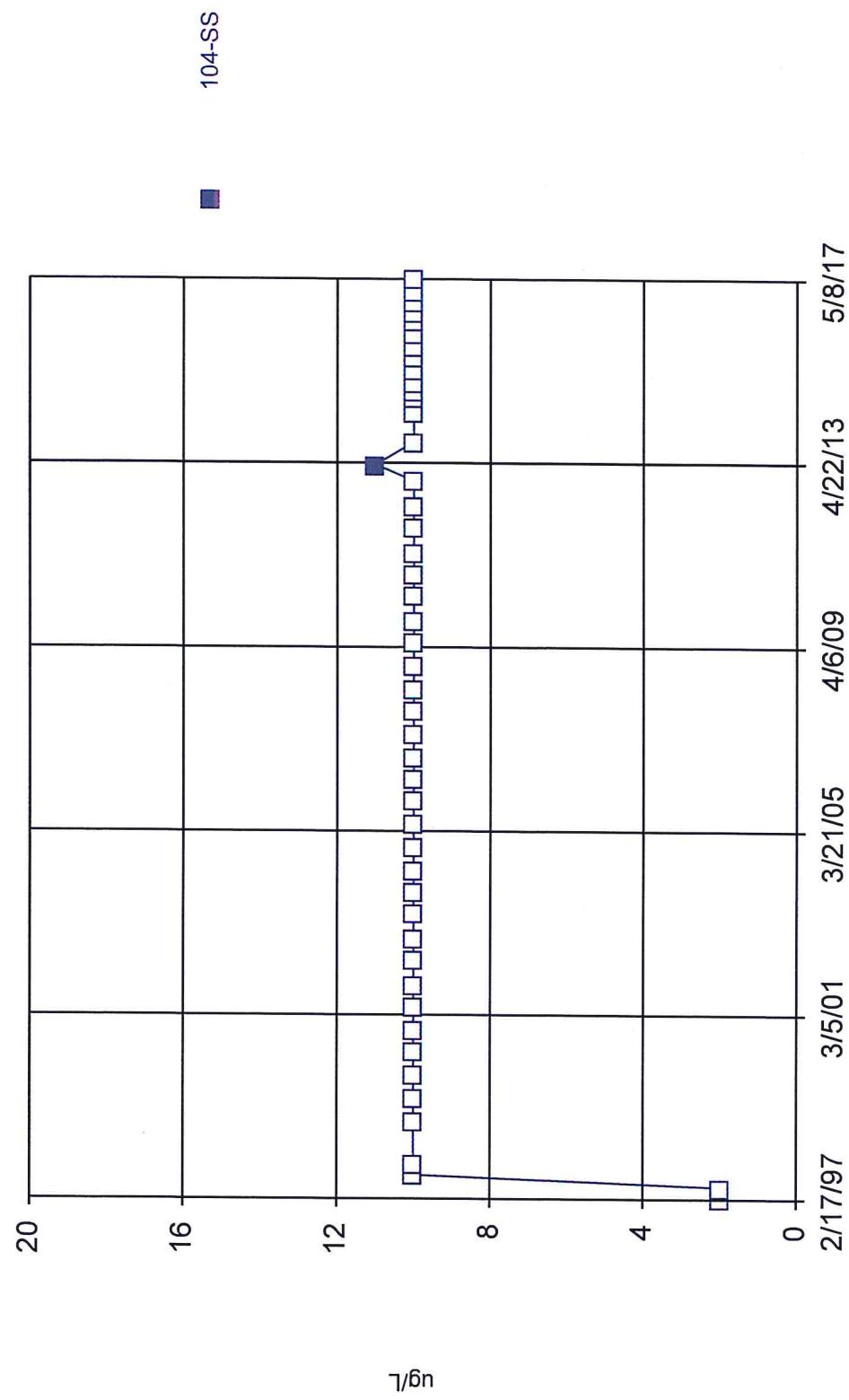
Time Series



Constituent: Benzene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

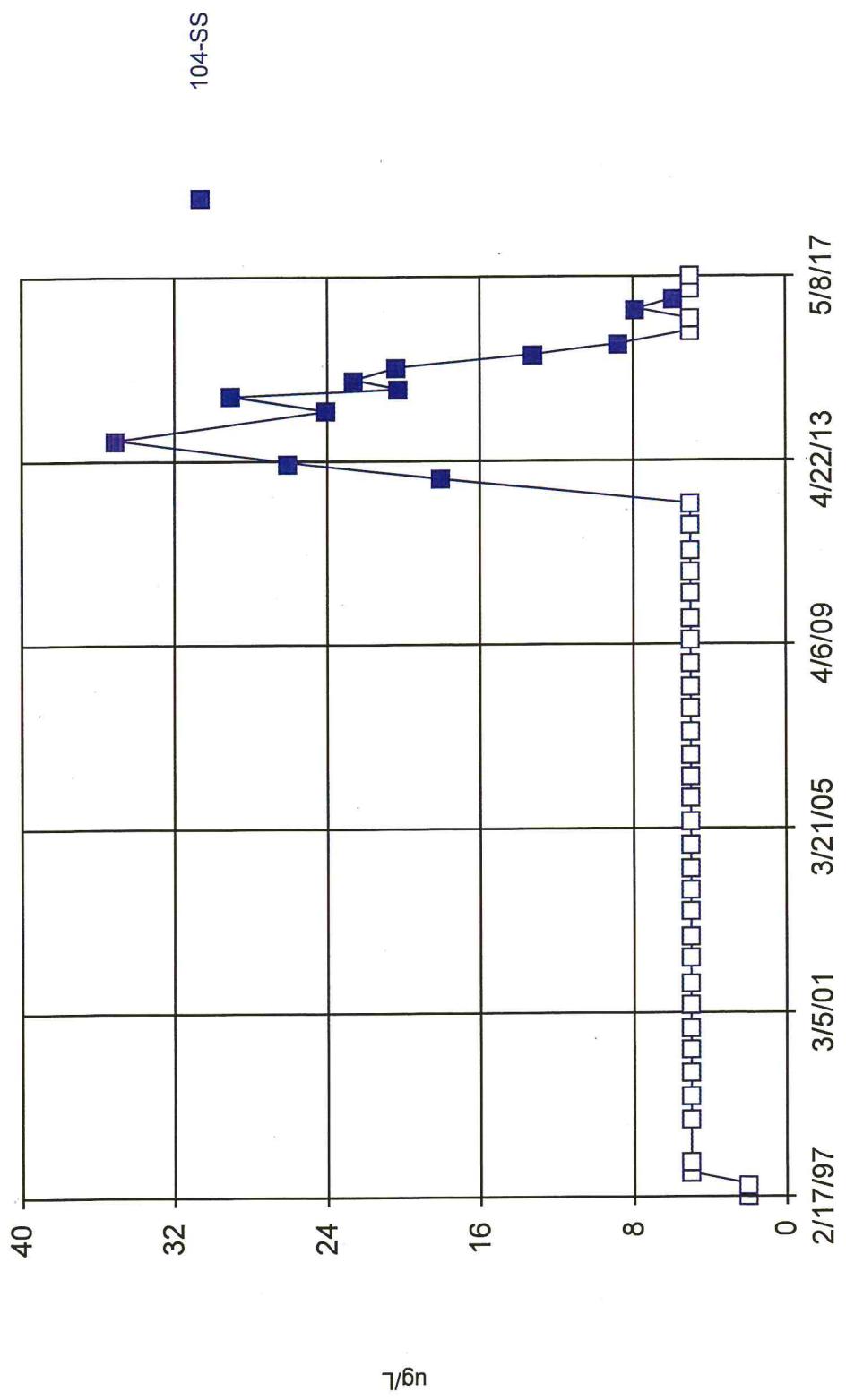
Time Series



Constituent: Chloroethane Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

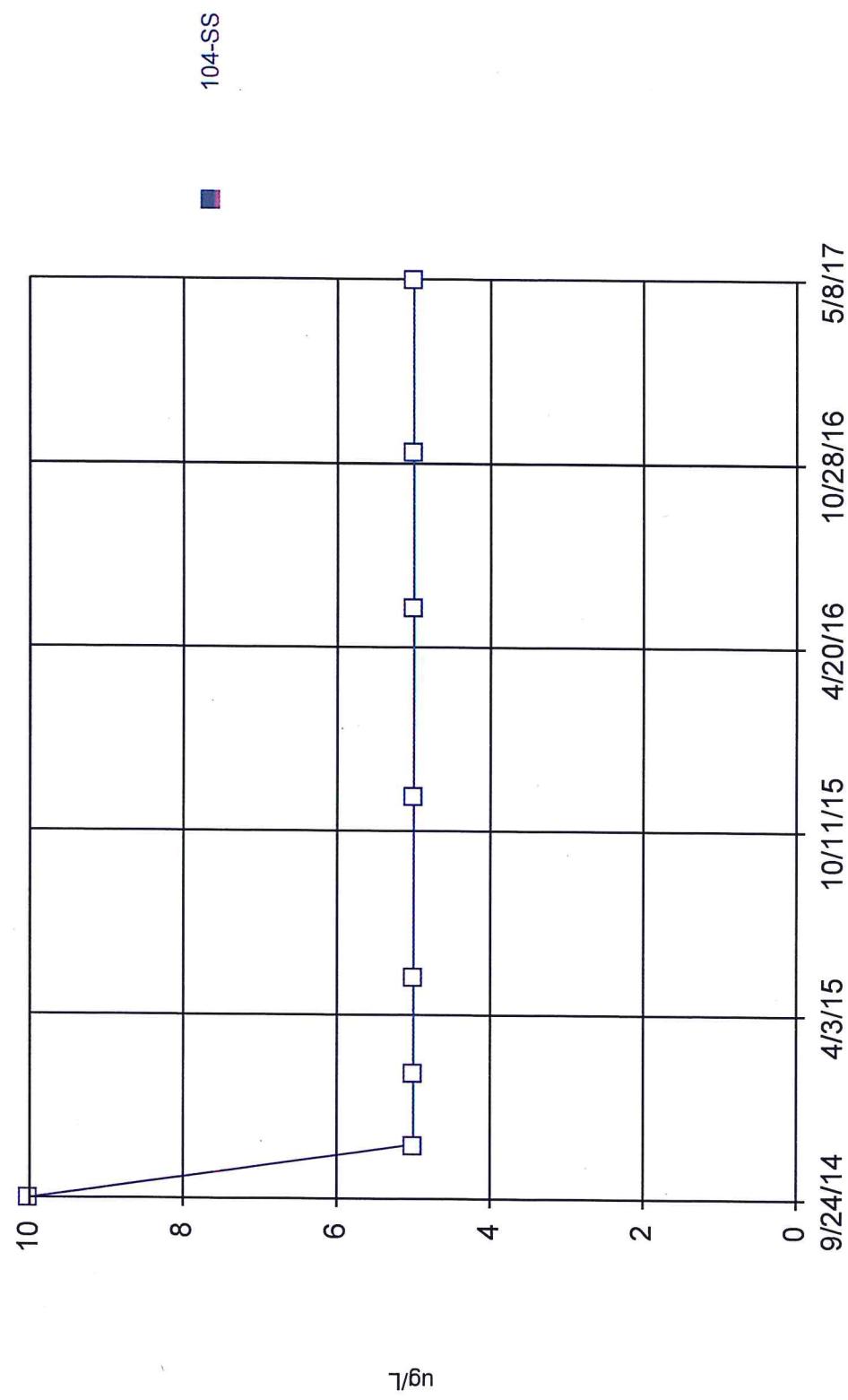
Time Series



Constituent: Ethylbenzene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

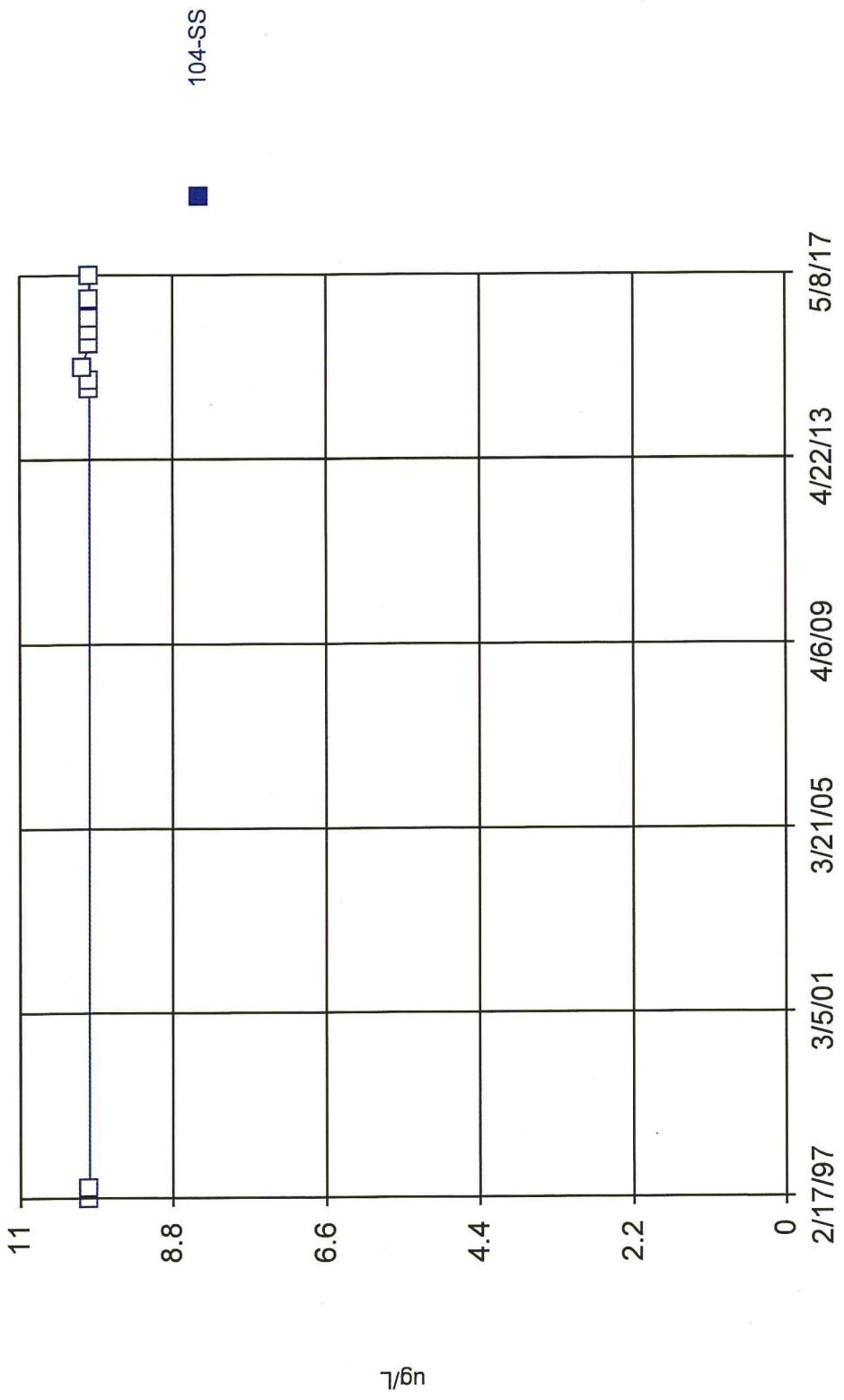
Time Series



Constituent: Isopropylbenzene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

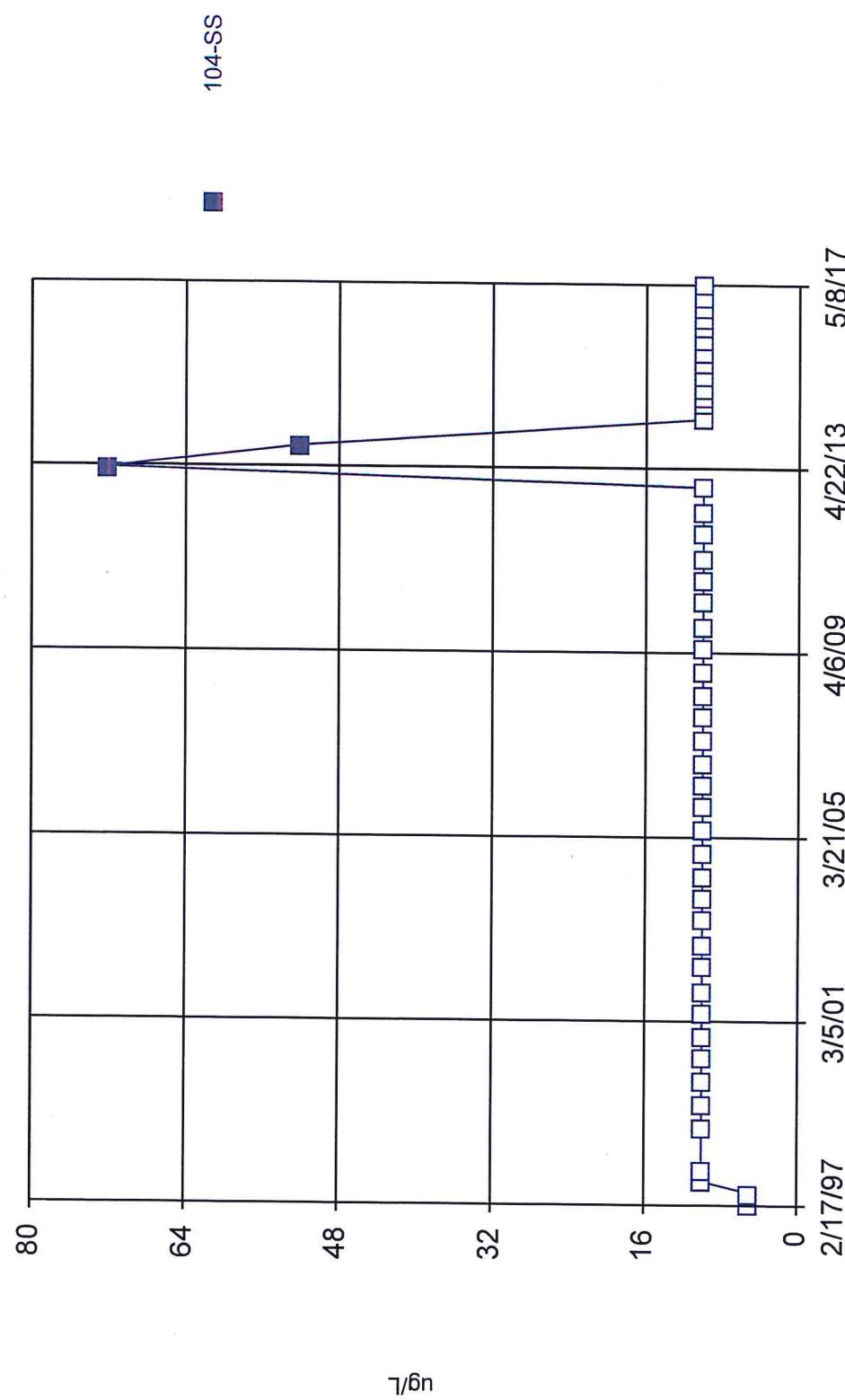
Time Series



Constituent: m+p-Cresols Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

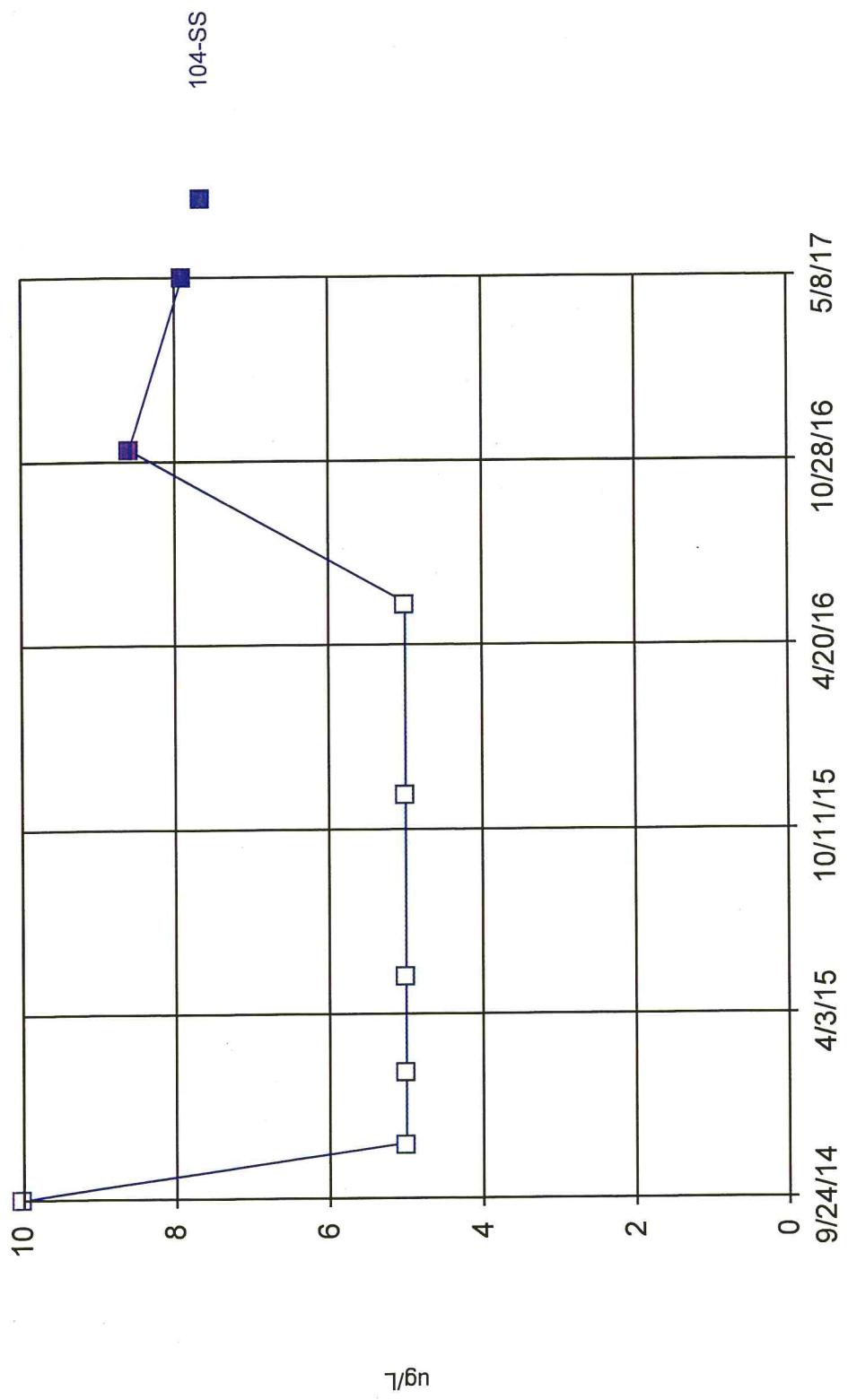
Time Series



Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

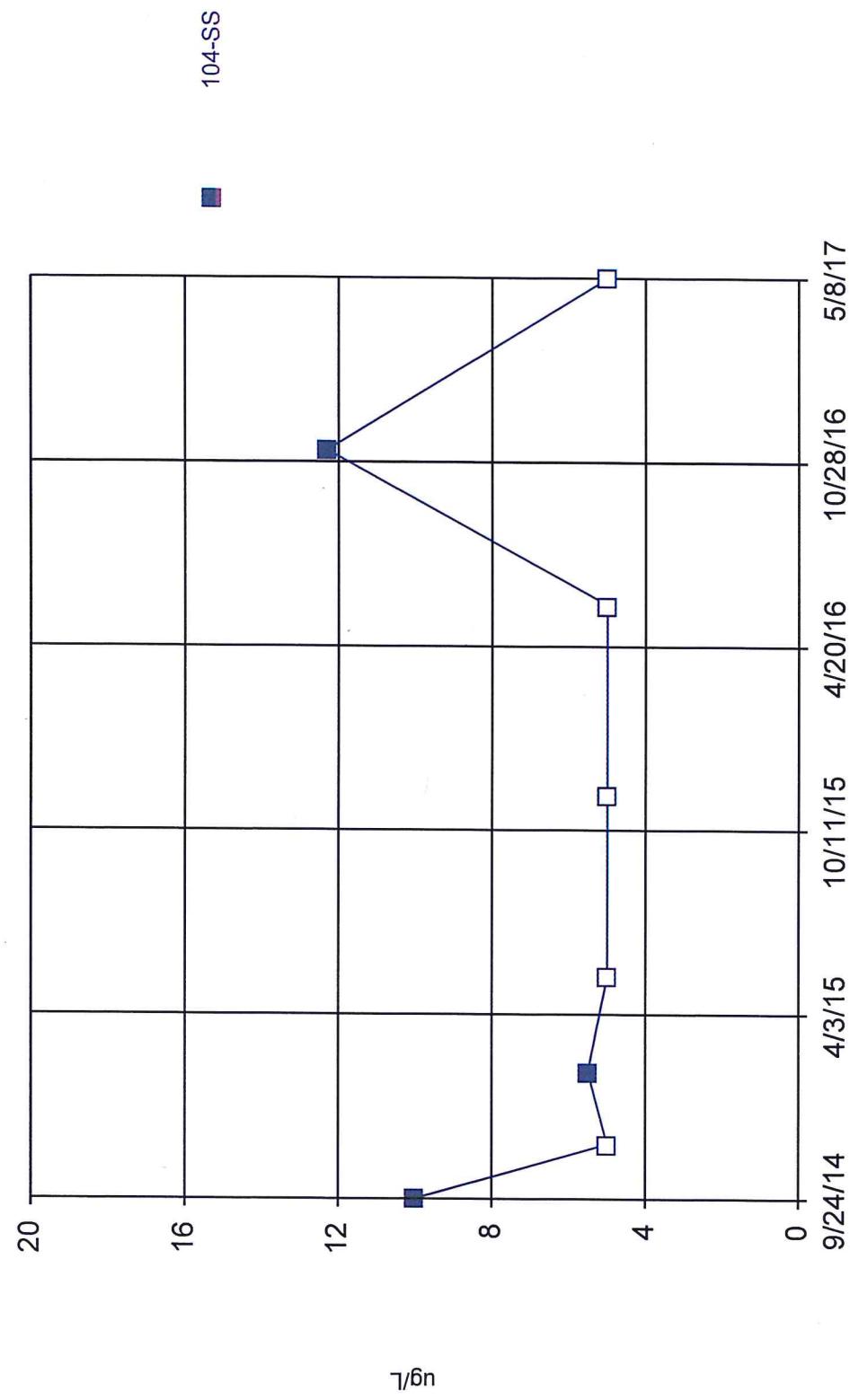
Time Series



Constituent: Methyl-tert-butyl ether Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

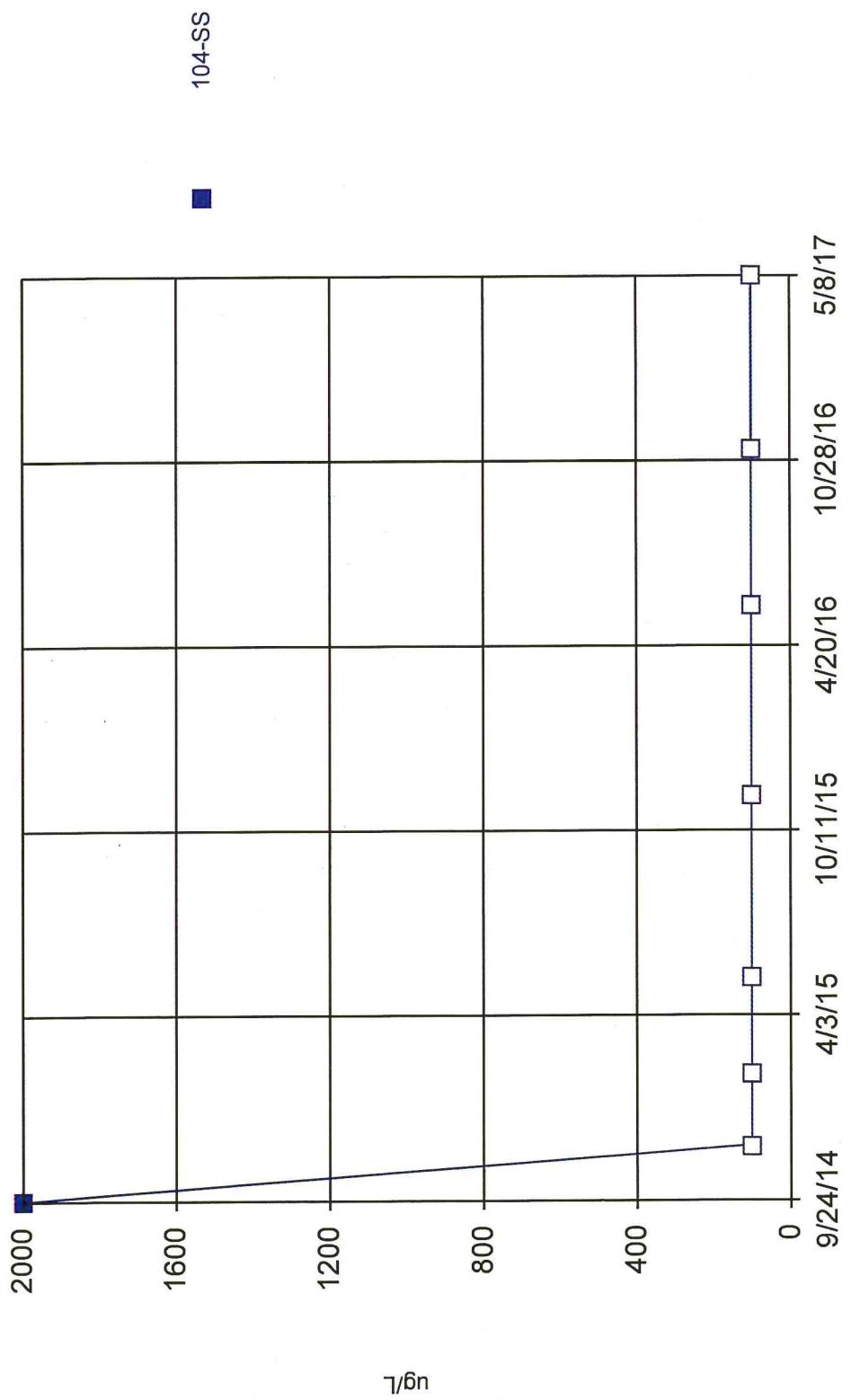
Time Series



Constituent: p-Isopropyltoluene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

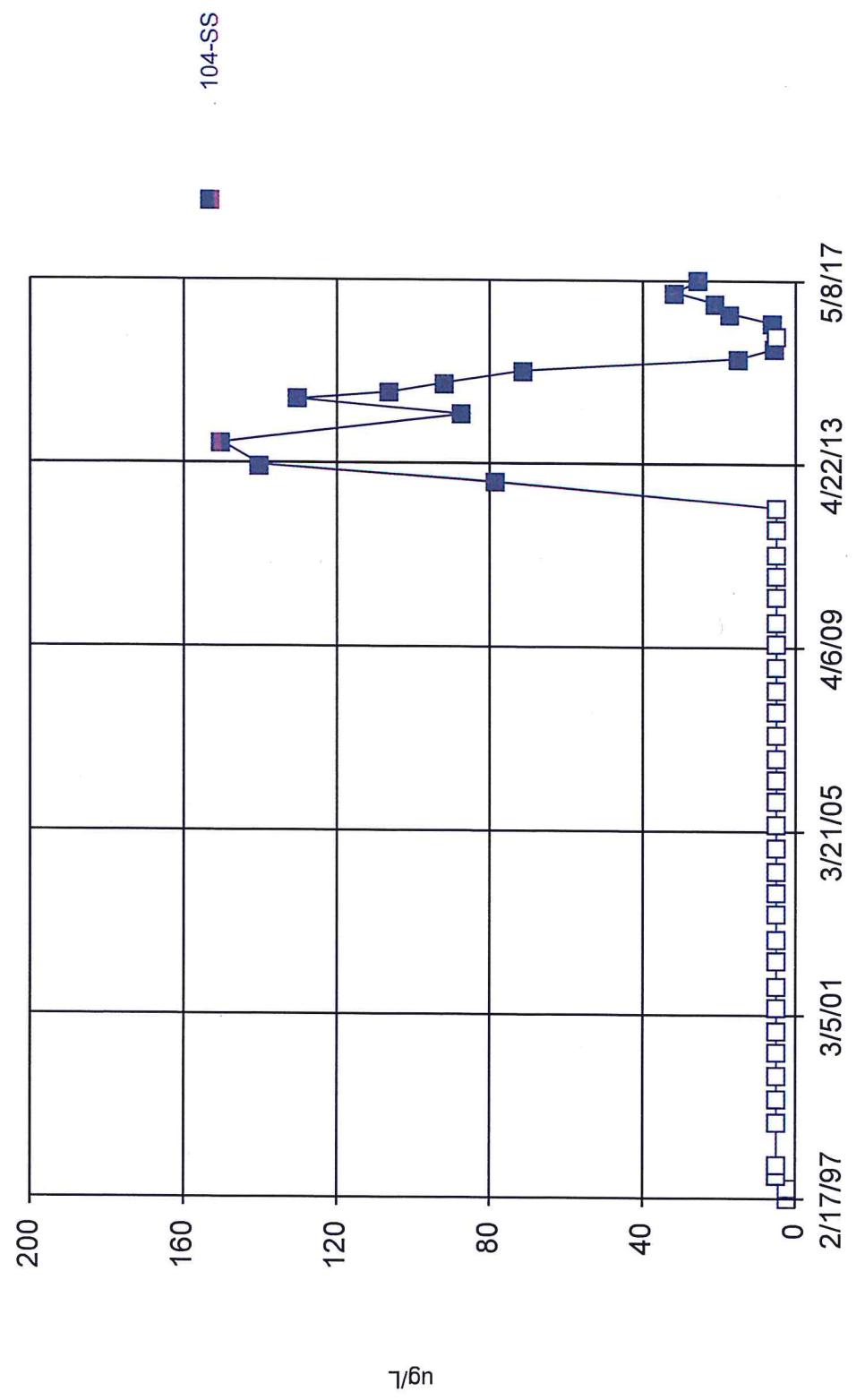
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrahydrofuran Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

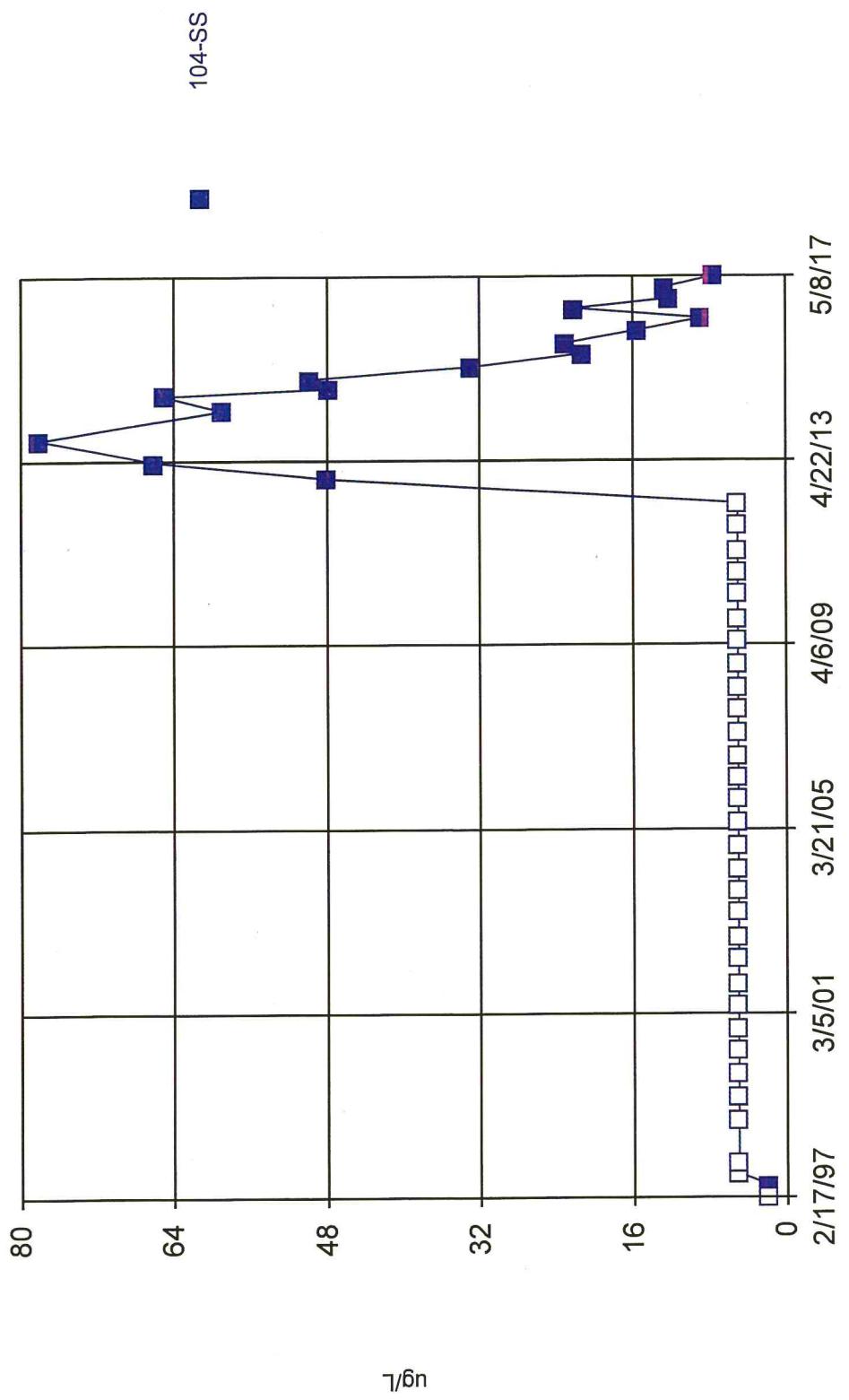
Time Series



Constituent: Toluene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Time Series



Constituent: Xylenes Total Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

**APPENDIX E
STATISTICAL EVALUATIONS
SALEM FORMATION**

**TREND EVALUATION OF
BACKGROUND DATA**

Trend Test

Constituent	Well	Bridgeton LF	Client: RSI	Data: BRIDGETON	Printed 1/7/2016, 1:20 PM			
	Slope	CaliC.	Critical	Sig.	%NDS	Normality	Xform	Method
Ammonia as N (mg/L)	100-SD (bg)	-0.00...	-131	-201	No	40	2.5	n/a
Ammonia as N (mg/L)	104-SD (bg)	0.01592	150	201	No	40	32.5	n/a
Ammonia as N (mg/L)	106-SD (bg)	0.02107	403	201	Yes	40	n/a	n/a
Ammonia as N (mg/L)	111-SD (bg)	0	-65	-201	No	40	82.5	n/a
Antimony Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a
Antimony Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a
Antimony Total (ug/L)	106-SD (bg)	0	42	201	No	40	100	n/a
Antimony Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a
Arsenic Total (ug/L)	100-SD (bg)	0	-12	-201	No	40	90	n/a
Arsenic Total (ug/L)	104-SD (bg)	0	341	201	Yes	40	82.5	n/a
Arsenic Total (ug/L)	106-SD (bg)	0	31	201	Yes	40	77.5	n/a
Arsenic Total (ug/L)	111-SD (bg)	0	114	201	No	40	97.5	n/a
Barium Total (ug/L)	100-SD (bg)	0.9366	131	201	No	40	0	n/a
Barium Total (ug/L)	104-SD (bg)	9.667	437	201	Yes	40	0	n/a
Barium Total (ug/L)	106-SD (bg)	4.028	455	201	Yes	40	0	n/a
Barium Total (ug/L)	111-SD (bg)	0.5406	269	201	Yes	40	0	n/a
Boron Total (ug/L)	100-SD (bg)	0	17	201	No	40	97.5	n/a
Boron Total (ug/L)	104-SD (bg)	0	112	201	No	40	100	n/a
Boron Total (ug/L)	106-SD (bg)	0	112	201	No	40	100	n/a
Boron Total (ug/L)	111-SD (bg)	0	81	201	No	40	100	n/a
Boron Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a
Boron Total (ug/L)	104-SD (bg)	0	283	201	Yes	40	75	n/a
Boron Total (ug/L)	106-SD (bg)	0	154	201	No	40	85	n/a
Boron Total (ug/L)	111-SD (bg)	0	-61	-201	No	40	97.5	n/a
Boron Total (ug/L)	100-SD (bg)	0	-66	-201	No	40	97.5	n/a
Boron Total (ug/L)	104-SD (bg)	0	-12	-201	No	40	100	n/a
Boron Total (ug/L)	106-SD (bg)	0	34	201	No	40	97.5	n/a
Boron Total (ug/L)	111-SD (bg)	0	-35	-201	No	40	100	n/a
Boron Total (ug/L)	100-SD (bg)	-199.7	-173	-201	No	40	0	n/a
Boron Total (ug/L)	104-SD (bg)	275	179	201	No	40	0	n/a
Boron Total (ug/L)	106-SD (bg)	963.8	234	201	Yes	40	0	n/a
Calcium Total (ug/L)	111-SD (bg)	0	-1	-201	No	40	0	n/a
Calcium Total (ug/L)	100-SD (bg)	0	-356	-201	Yes	40	92.5	n/a
Cadmium Total (ug/L)	104-SD (bg)	1.603	366	201	Yes	40	62.5	n/a
Cadmium Total (ug/L)	106-SD (bg)	0	123	201	No	40	75	n/a
Cadmium Total (ug/L)	111-SD (bg)	0	-366	-201	Yes	40	95	n/a
Cadmium Total (ug/L)	100-SD (bg)	0	31	201	No	40	90	n/a
Cadmium Total (ug/L)	104-SD (bg)	7.593	494	201	Yes	40	0	n/a
Chloride (mg/L)	106-SD (bg)	-0.5238	-243	-201	Yes	40	0	n/a
Chloride (mg/L)	111-SD (bg)	-0.3846	-583	-201	Yes	40	0	n/a
Chloride (mg/L)	100-SD (bg)	0	-201	-201	No	40	90	n/a
Chromium Total (ug/L)	104-SD (bg)	0	126	201	No	40	82.5	n/a
Chromium Total (ug/L)	106-SD (bg)	0	24	201	No	40	82.5	n/a
Chromium Total (ug/L)	111-SD (bg)	0	-113	-201	No	40	95	n/a
Chromium Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a
Chromium Total (ug/L)	104-SD (bg)	0	-87	-201	No	40	97.5	n/a
Chromium Total (ug/L)	106-SD (bg)	0	-5	-201	No	40	90	n/a
Chromium Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a
Cobalt Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a
Copper Total (ug/L)	104-SD (bg)	0	-37	-201	No	40	95	n/a

Trend Test

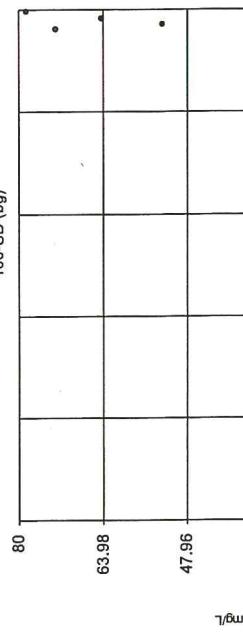
Constituent	Well	Bridgeton LF	Client RSI	Data: BRIDGETON	Printed 1/7/2016, 1:20 PM			
	Slope	Calc.	Critical	Sig.	%NDS	Normality	Xform	Method
Copper Total (ug/L)	106-SD (bg)	0	-59	-201	No	40	95	n/a
Copper Total (ug/L)	111-SD (bg)	0	-170	-201	No	40	95	n/a
Fluoride (mg/L)	100-SD (bg)	0	-24	-186	No	38	0	n/a
Fluoride (mg/L)	104-SD (bg)	-0.00...	-133	-186	No	38	5.263	n/a
Fluoride (mg/L)	106-SD (bg)	0.009886	129	186	No	38	2.632	n/a
Fluoride (mg/L)	111-SD (bg)	0.000...	76	186	No	38	0	n/a
Hardness Total (mg/L)	100-SD (bg)	0	-54	-201	No	40	0	n/a
Hardness Total (mg/L)	104-SD (bg)	3.617	289	201	Yes	40	0	n/a
Hardness Total (mg/L)	106-SD (bg)	5.378	273	201	Yes	40	0	n/a
Hardness Total (mg/L)	111-SD (bg)	0	5	201	No	40	0	n/a
Iron Total (ug/L)	100-SD (bg)	-43.81	-299	-201	Yes	40	0	n/a
Iron Total (ug/L)	104-SD (bg)	96.79	157	201	No	40	0	n/a
Iron Total (ug/L)	106-SD (bg)	133.3	256	201	Yes	40	0	n/a
Iron Total (ug/L)	111-SD (bg)	-44.22	-199	-201	No	40	0	n/a
Lead Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a
Lead Total (ug/L)	104-SD (bg)	0	42	201	No	40	100	n/a
Lead Total (ug/L)	106-SD (bg)	0	96	201	No	40	97.5	n/a
Lead Total (ug/L)	111-SD (bg)	0	11	201	No	40	100	n/a
Magnesium Total (ug/L)	100-SD (bg)	3.08	70	201	No	40	0	n/a
Magnesium Total (ug/L)	104-SD (bg)	595.7	376	201	Yes	40	0	n/a
Magnesium Total (ug/L)	106-SD (bg)	446.9	249	201	Yes	40	0	n/a
Magnesium Total (ug/L)	111-SD (bg)	-31.99	-67	-201	No	40	0	n/a
Manganese Total (ug/L)	100-SD (bg)	-6.669	-667	-201	Yes	40	0	n/a
Manganese Total (ug/L)	104-SD (bg)	1.929	171	201	No	40	0	n/a
Manganese Total (ug/L)	106-SD (bg)	-2.705	-60	-201	No	40	0	n/a
Manganese Total (ug/L)	111-SD (bg)	-0.7201	-457	-201	Yes	40	45	n/a
Mercury Total (ug/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a
Mercury Total (ug/L)	104-SD (bg)	0	-27	-201	No	40	100	n/a
Mercury Total (ug/L)	106-SD (bg)	0	-27	-201	No	40	100	n/a
Mercury Total (ug/L)	111-SD (bg)	0	-27	-201	No	40	100	n/a
Nickel Total (ug/L)	100-SD (bg)	0	-101	-201	No	40	100	n/a
Nickel Total (ug/L)	104-SD (bg)	0	198	201	No	40	75	n/a
Nickel Total (ug/L)	106-SD (bg)	0	15	201	No	40	90	n/a
Nickel Total (ug/L)	111-SD (bg)	0	-135	-201	No	40	100	n/a
Nitrate/Nitrite (mg/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a
Nitrate/Nitrite (mg/L)	104-SD (bg)	0	-8	-201	No	40	95	n/a
Nitrate/Nitrite (mg/L)	106-SD (bg)	0	-63	-201	No	40	97.5	n/a
Nitrate/Nitrite (mg/L)	111-SD (bg)	0	15	201	No	40	90	n/a
Nitrate/Nitrite (mg/L)	100-SD (bg)	-0.01949	-136	-201	No	40	0	n/a
pH [Field] (su)	104-SD (bg)	-0.04514	-318	-201	Yes	40	0	n/a
pH [Field] (su)	106-SD (bg)	-0.03461	-354	-201	Yes	40	0	n/a
pH [Field] (su)	111-SD (bg)	-0.01585	-138	-201	No	40	0	n/a
Phosphorus Total (mg/L)	100-SD (bg)	-0.00...	-354	-201	Yes	40	65	n/a
Phosphorus Total (mg/L)	104-SD (bg)	0	116	201	No	40	47.5	n/a
Phosphorus Total (mg/L)	106-SD (bg)	0.0004108	185	201	No	40	15	n/a
Phosphorus Total (mg/L)	111-SD (bg)	0	3	201	No	40	72.5	n/a
Selenium Total (ug/L)	100-SD (bg)	0	47	201	No	40	100	n/a
Selenium Total (ug/L)	104-SD (bg)	0	42	201	No	40	97.5	n/a
Selenium Total (ug/L)	106-SD (bg)	0	74	201	No	40	100	n/a
Selenium Total (ug/L)	111-SD (bg)	0	11	201	No	40	n/a	n/a

Trend Test

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
Sodium Total (ug/L)	100-SD (bg)	-0.9396	-91	-201	No	40	0	n/a	n/a	0.02	NP
Sodium Total (ug/L)	104-SD (bg)	26.36	365	201	Yes	40	0	n/a	n/a	0.02	NP
Sodium Total (ug/L)	106-SD (bg)	-4.65	-136	-201	No	40	0	n/a	n/a	0.02	NP
Sodium Total (ug/L)	111-SD (bg)	-4.974	-243	-201	Yes	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	100-SD (bg)	0	29	201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	104-SD (bg)	-1.274	-176	-201	No	40	0	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	106-SD (bg)	-4.359	-587	-201	Yes	40	2.5	n/a	n/a	0.02	NP
Specific Conductance [Field] (u...	111-SD (bg)	-0.7977	-581	-201	Yes	40	2.5	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	100-SD (bg)	0	-303	-201	Yes	40	100	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	104-SD (bg)	0	-270	-201	Yes	40	100	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	106-SD (bg)	0	-270	-201	Yes	40	100	n/a	n/a	0.02	NP
Sulfate as SO4 (mg/L)	111-SD (bg)	0	-314	-201	Yes	40	100	n/a	n/a	0.02	NP
Thallium Total (ug/L)	100-SD (bg)	-2.689	-301	-201	Yes	40	0	n/a	n/a	0.02	NP
Thallium Total (ug/L)	104-SD (bg)	16.86	360	201	Yes	40	100	n/a	n/a	0.02	NP
Thallium Total (ug/L)	106-SD (bg)	-7.344	-193	-201	No	40	0	n/a	n/a	0.02	NP
Thallium Total (ug/L)	111-SD (bg)	-2.784	-253	-201	Yes	40	0	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	100-SD (bg)	0	-82	-201	No	40	32.5	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	104-SD (bg)	0.20006	433	201	Yes	40	50	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	106-SD (bg)	0.07738	270	201	Yes	40	35	n/a	n/a	0.02	NP
Total Dissolved Solids [TDS] (m...	111-SD (bg)	0	145	201	No	40	42.5	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	100-SD (bg)	0	-27	-201	No	40	100	n/a	n/a	0.02	NP
Total Organic Carbon [TOC] (mg/L)	104-SD (bg)	0	159	201	No	40	87.5	n/a	n/a	0.02	NP
Vanadium Total (ug/L)	105-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

Sen's Slope Estimator

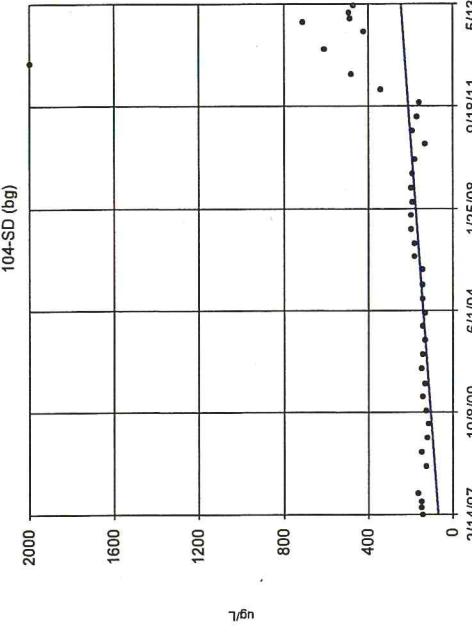
104-SD (bg)



Constituent: Ammonia as N Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

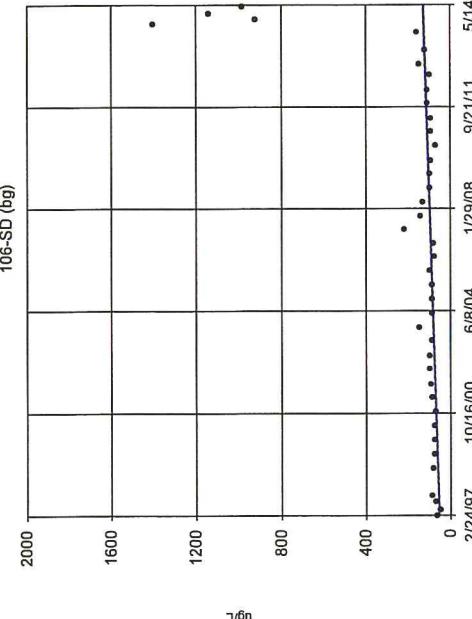
104-SD (bg)



Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

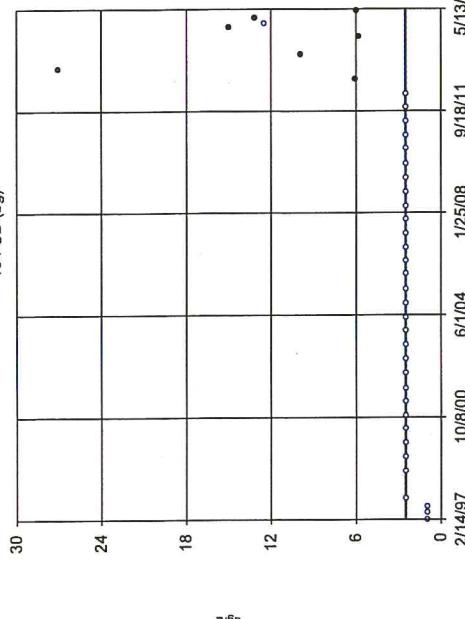
106-SD (bg)



Constituent: Barium Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

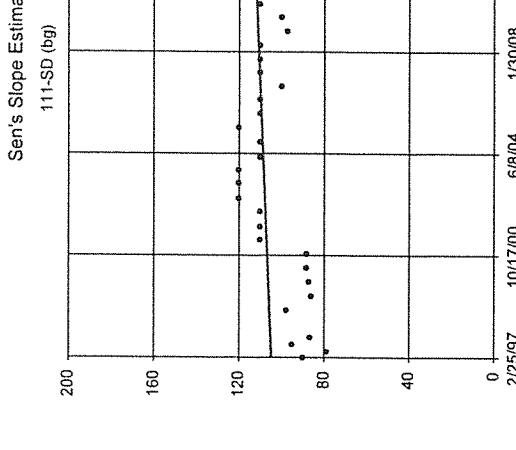
106-SD (bg)



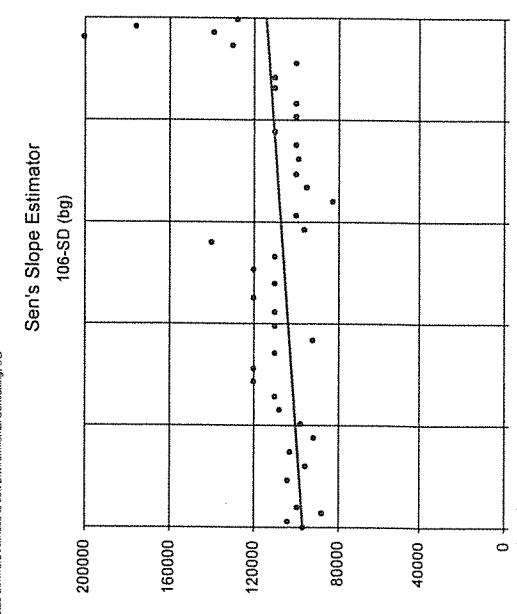
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Bridgeton LF Client: RSI Data: BRIDGETON



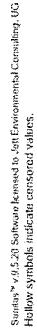
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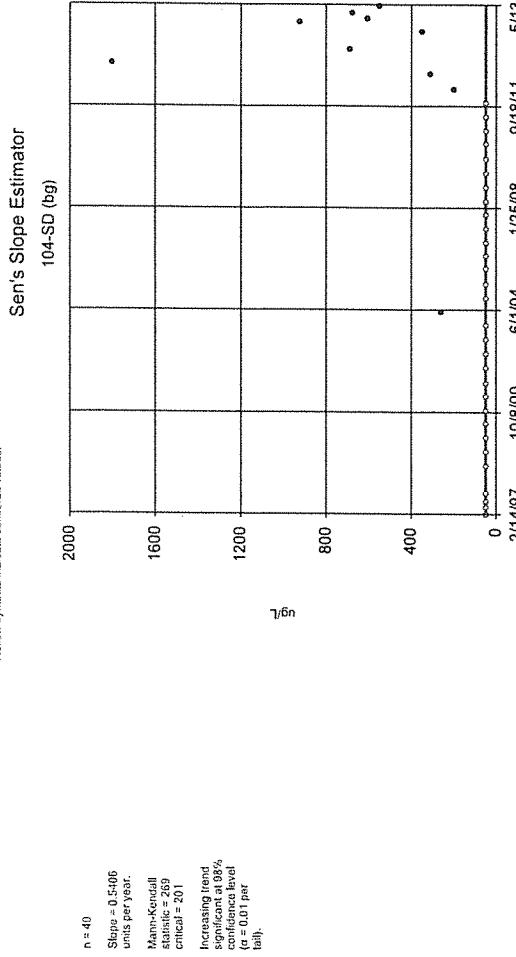
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Bridgerton LE Client: DEI Date: 09/12/2010



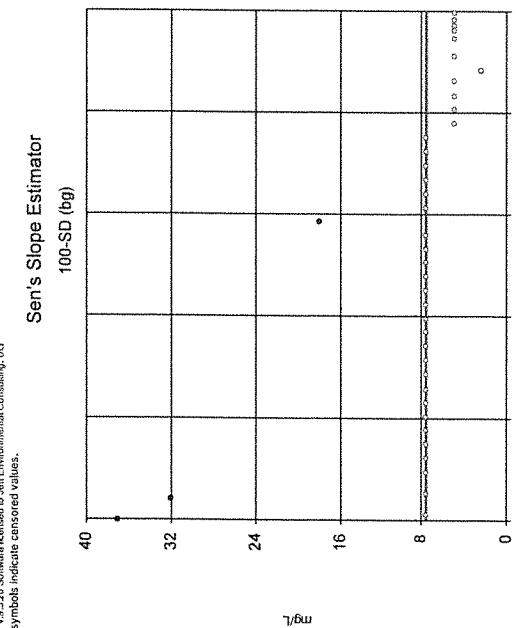
constituent: Calcium Total Analysis Run 1/7/2016 1:19 PM



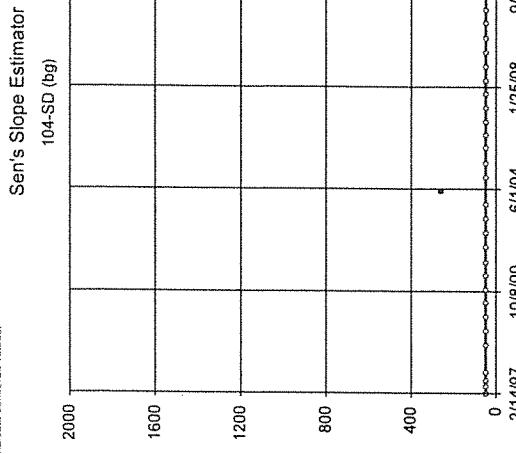
Sunday 9-9, 5-20 Software licensed to SGI Environments Consulting, UC
Hollow symbols indicate censored values.



Constituent: Boron Total Analysis Run 1/7/2016 1:19 PM
Batch ID: 15 Client ID: Date: BRIDGETON

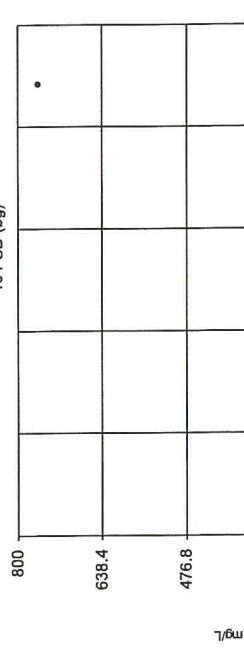


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM



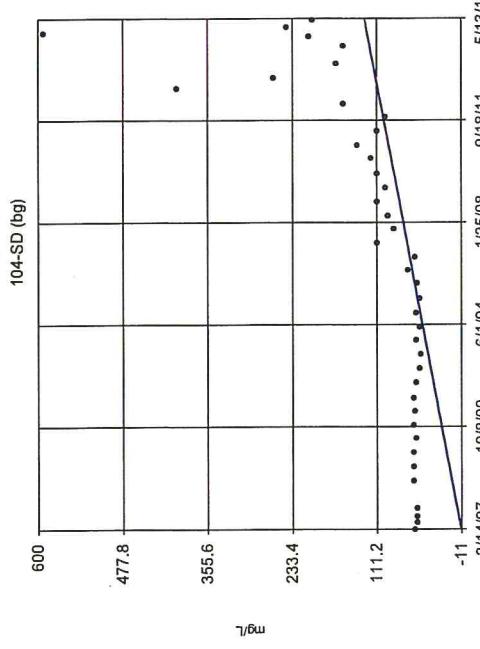
Constituent: Boron Total Analysis Run 171

Sen's Slope Estimator



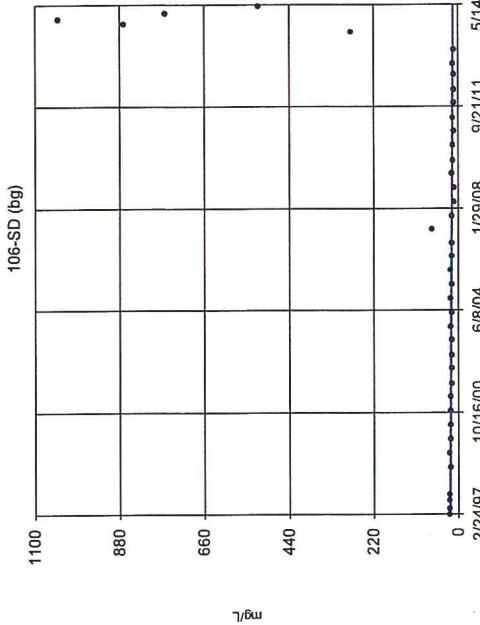
Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

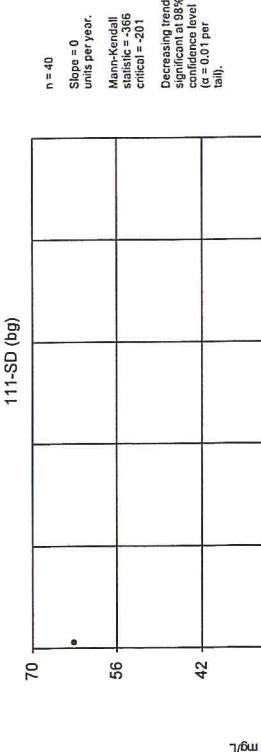
Sen's Slope Estimator



Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

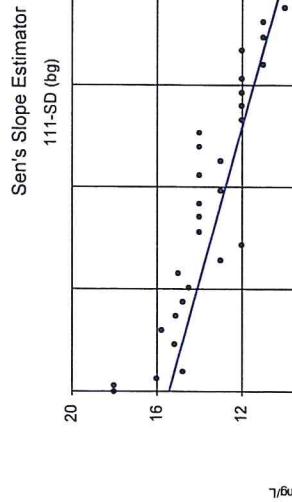
Slope = 0 units per year.
Mann-Kendall statistic = -366
critical = 201
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Sen's Slope Estimator

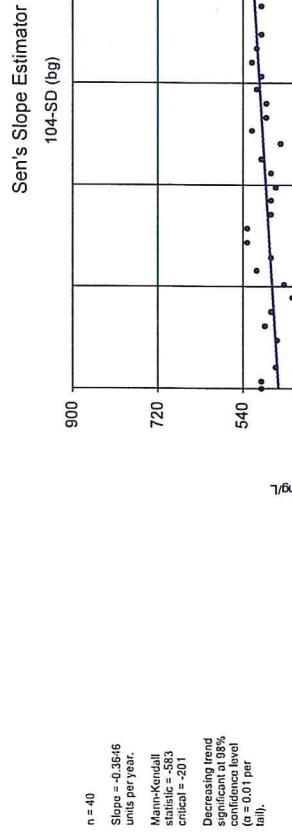


Constituent: Chemical Oxygen Demand [COD] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

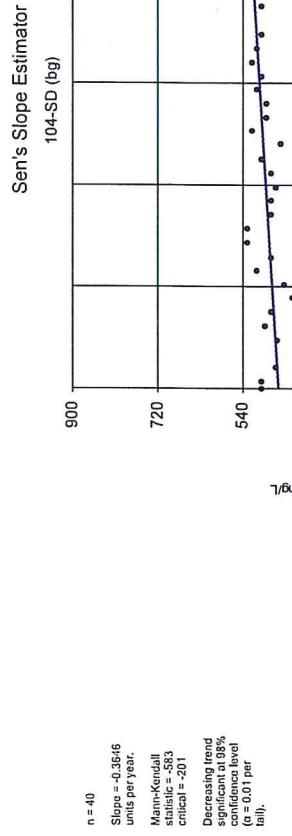
Slope = 0 units per year.
Mann-Kendall statistic = -366
critical = 201
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).



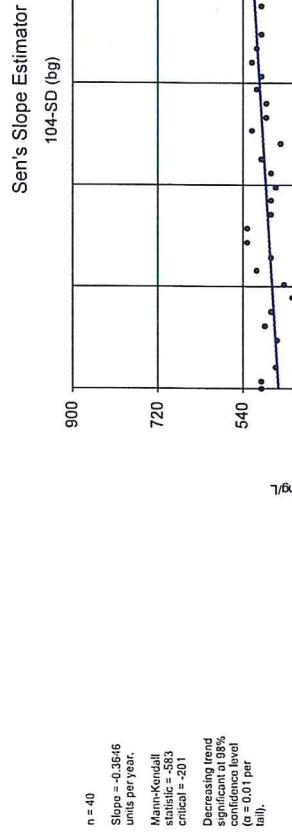
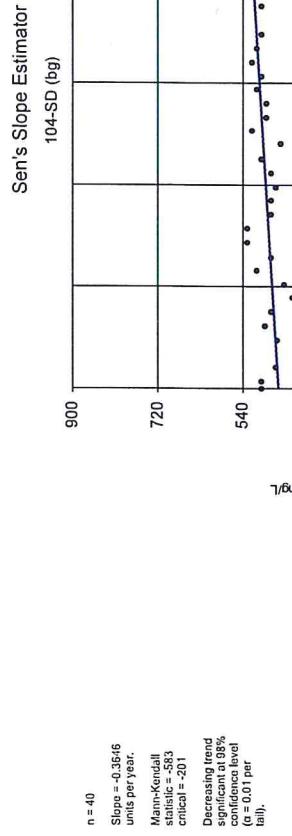
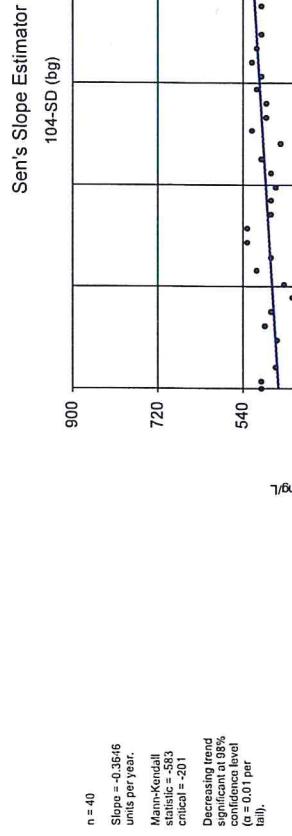
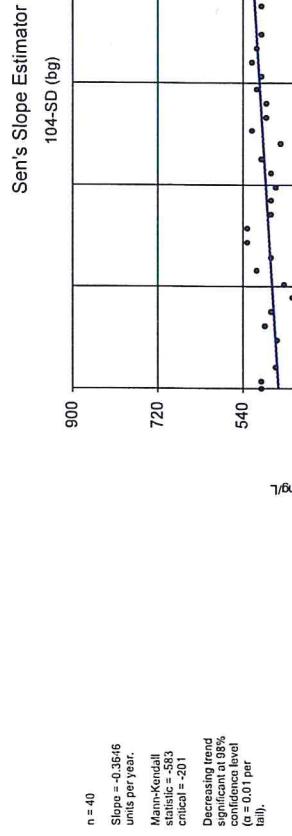
Constituent: Chloride Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON



Constituent: Hardness Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

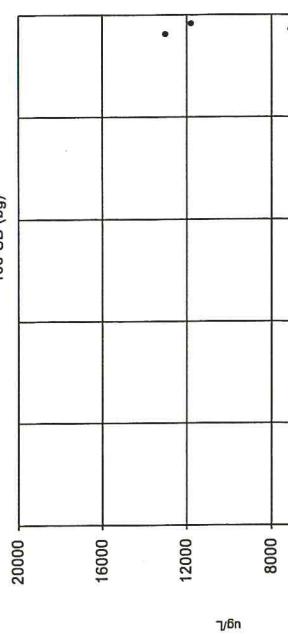


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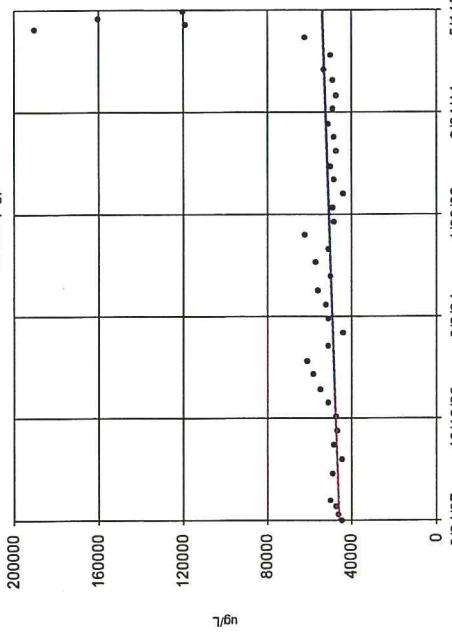
Sen's Slope Estimator

106-SD (bg)

Constituent: Iron Total Analysis Run 1/7/2016 1:19 PM
Bridgeion LF Client: RSI Data: BRIDGETON

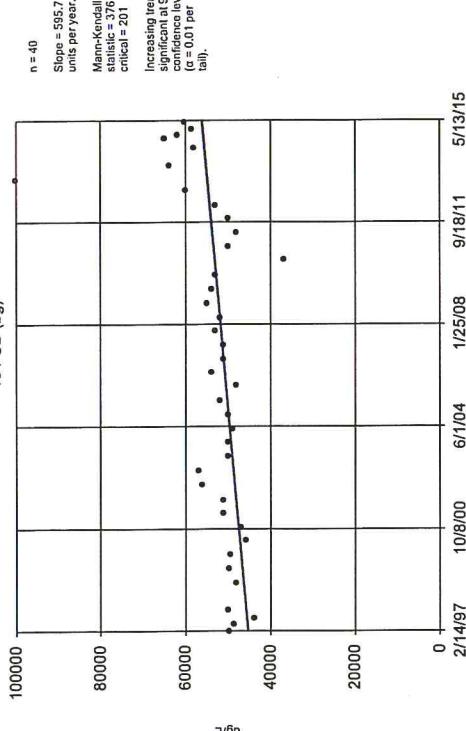
Sen's Slope Estimator

106-SD (bg)

Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM
Bridgeion LF Client: RSI Data: BRIDGETON

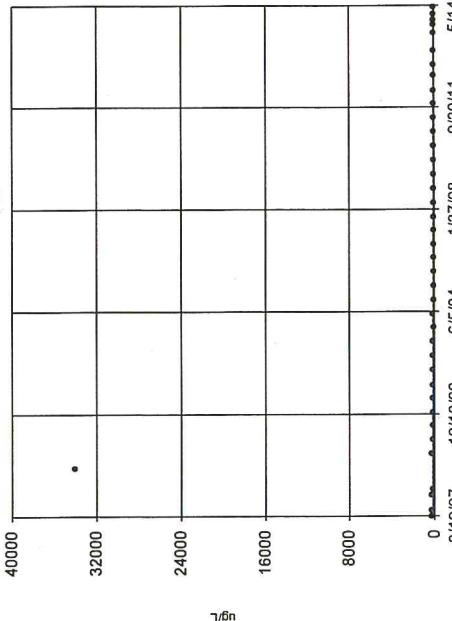
Sen's Slope Estimator

104-SD (bg)

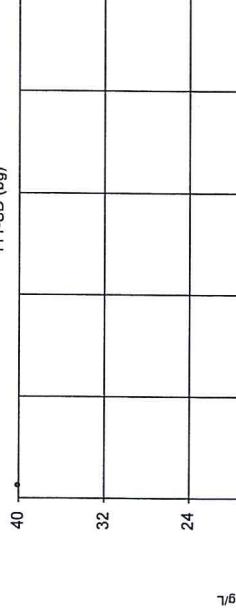
Constituent: Sodium Total Analysis Run 1/7/2016 1:19 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

100-SD (bg)

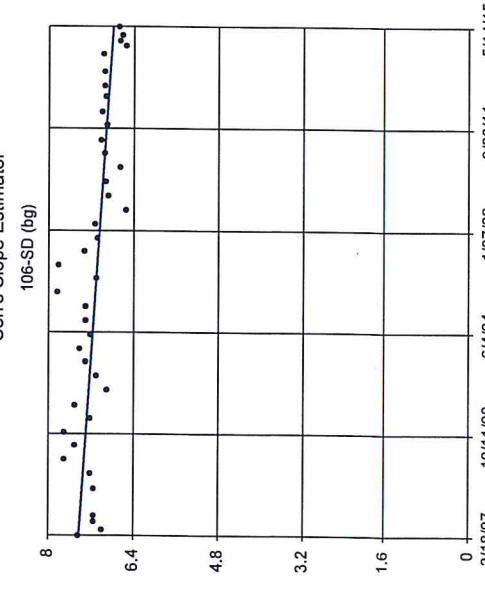
Constituent: Magnesium Total Analysis Run 1/7/2016 1:19 PM
Bridgeion LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



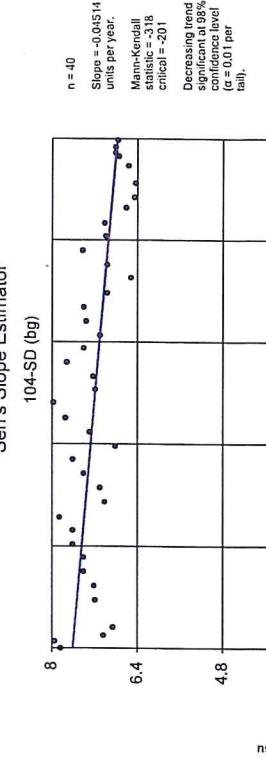
Constituent: Manganese Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



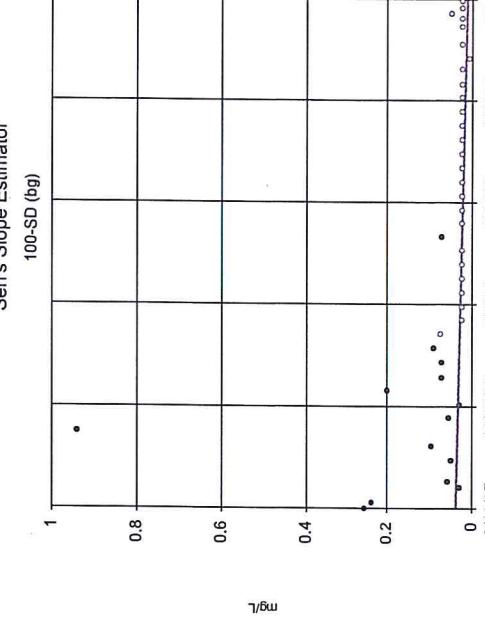
Constituent: Phosphorus Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator



Constituent: pH [Field] Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

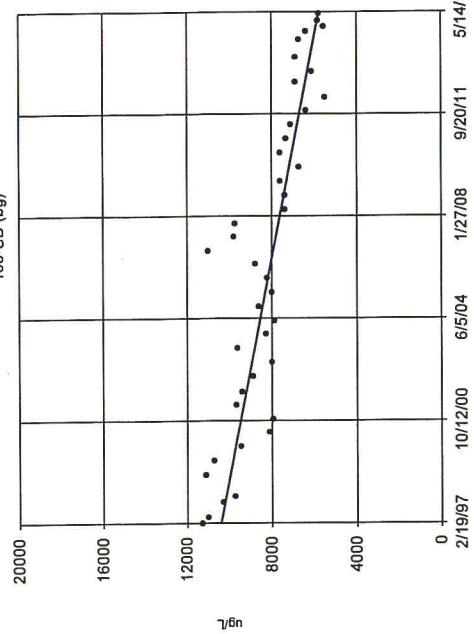
Sen's Slope Estimator



Constituent: Phosphorus Total Analysis Run 1/7/2016 1:19 PM
Bridgeton LF Client: RSI Data: BRIDGETON

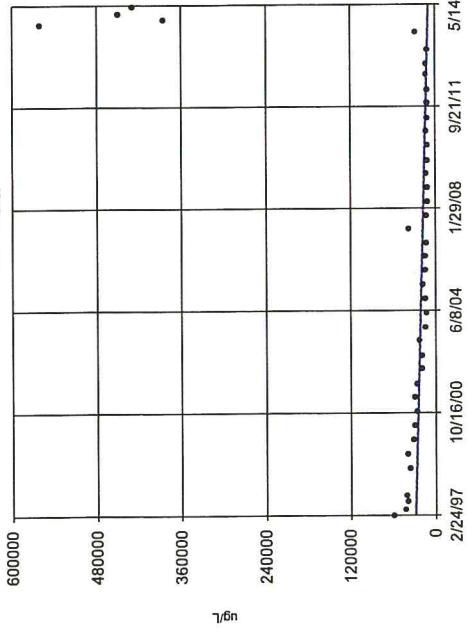
Sen's Slope Estimator

100-SD (bg)

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

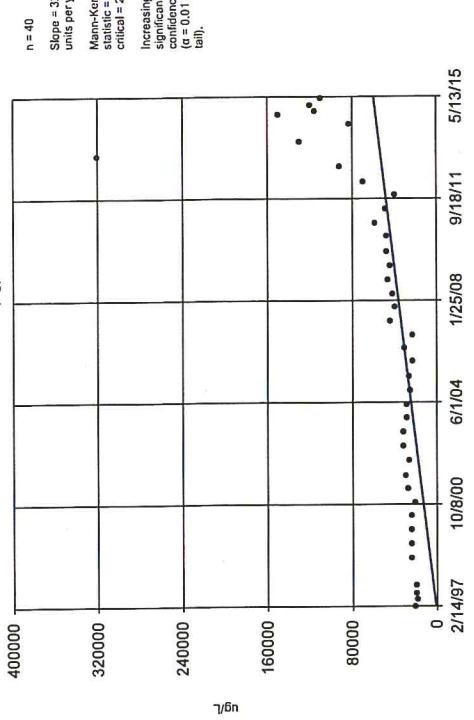
Sen's Slope Estimator

105-SD (bg)

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

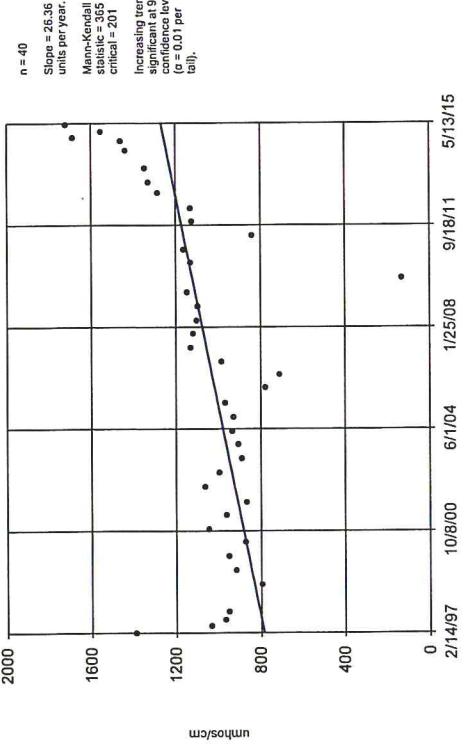
Sen's Slope Estimator

104-SD (bg)

Constituent: Sodium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

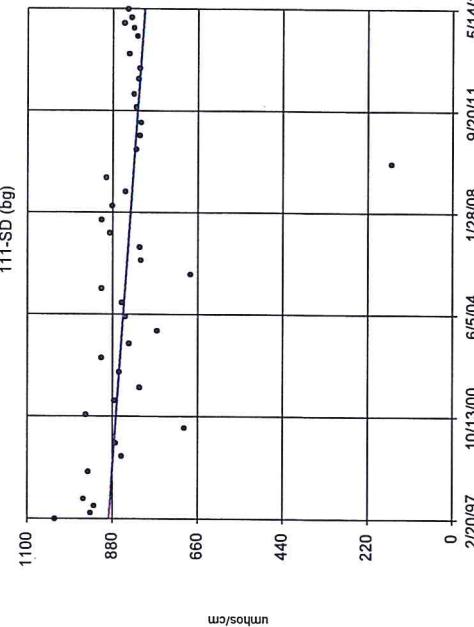
Sen's Slope Estimator

104-SD (bg)

Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

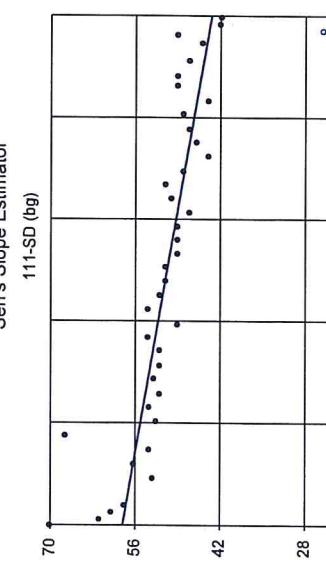
111-SD (bg)



Constituent: Specific Conductance [Field] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

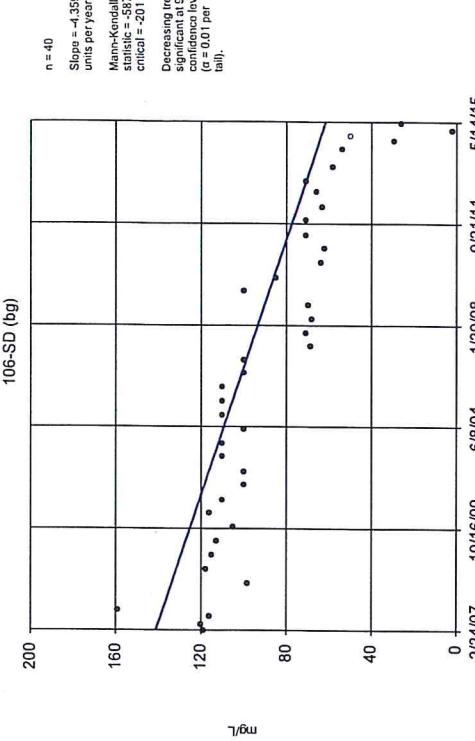
111-SD (bg)



Constituent: Sulfate as SO4 Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

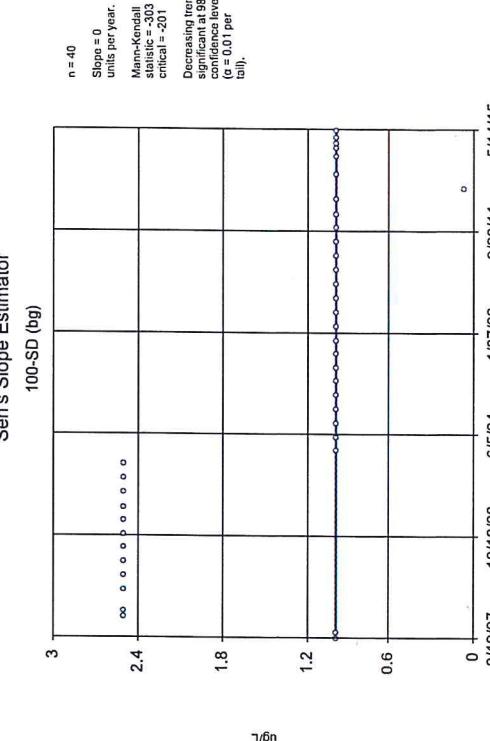
106-SD (bg)



Constituent: Dissolved Solids Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

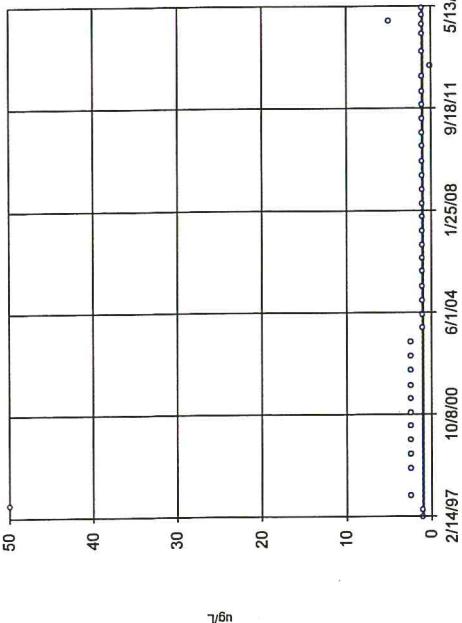
100-SD (bg)



Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

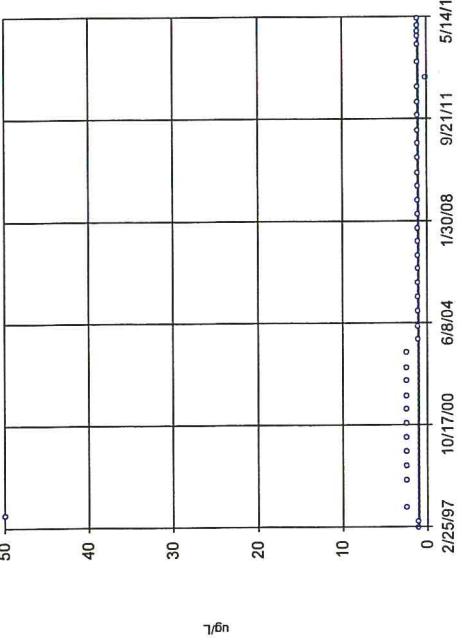
104-SD (bg)



Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

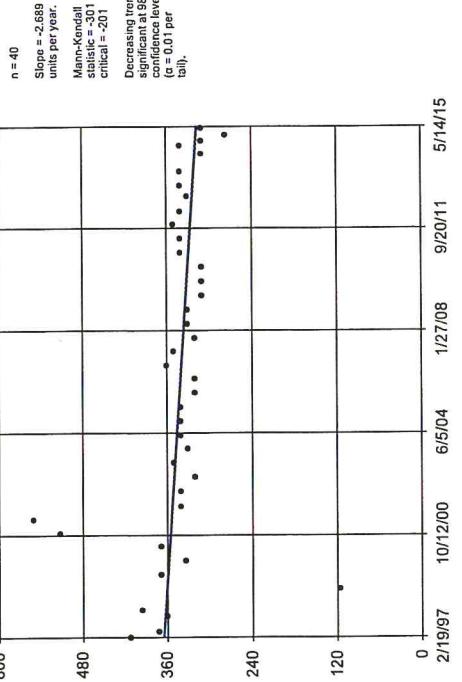
111-SD (bg)



Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

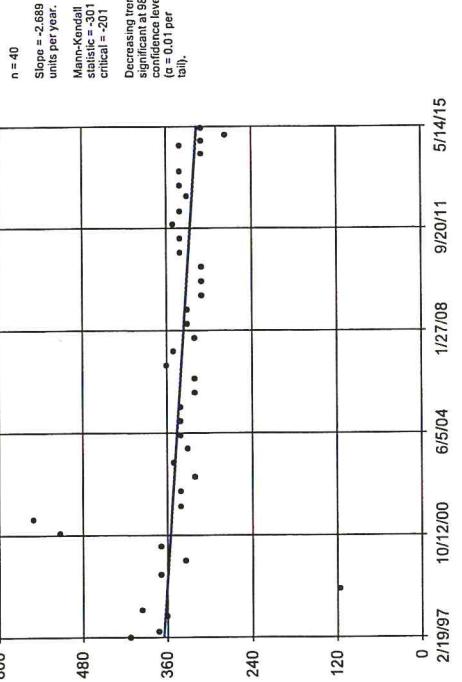
106-SD (bg)



Constituent: Thallium Total Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

100-SD (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator 104-SD (bg)



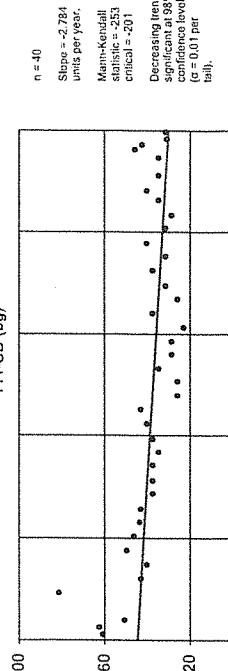
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator 104-SD (bg)



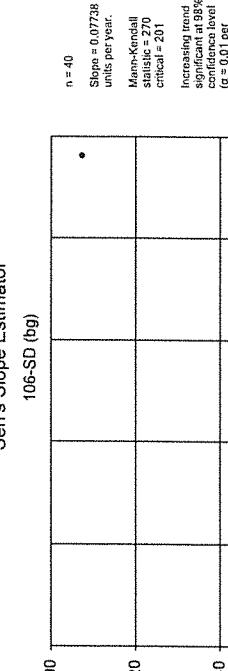
Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator 111-SD (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

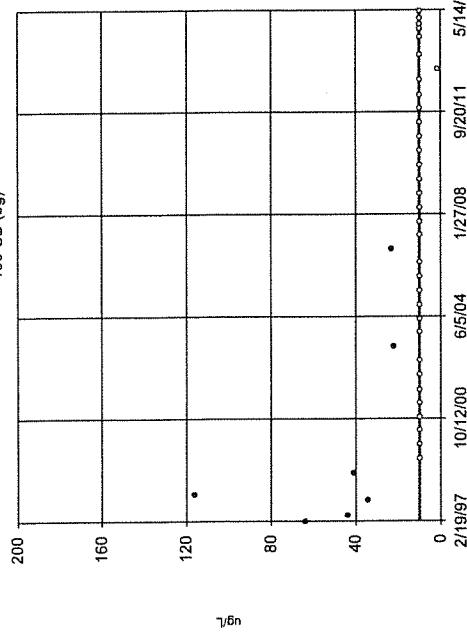
Sen's Slope Estimator 106-SD (tg)



Constituent: Total Organic Carbon [TOC] Analysis Run 1/7/2016 1:20 PM
Bridgeton LF Client: RSI Data: BRIDGETON

Sen's Slope Estimator

100-SD (kg)



n = 40
Slope = 0
units per year.
Mann-Kendall
statistic = -2.18
Critical = -2.01
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ 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 7/11/2017, 4:09 PM									
Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.
								%NDs	ND Adi.
Ammonia as N (mg/L)	100-SD	0.63	n/a	5/5/2017	0.38	No	37	0.4359	0.07903
Ammonia as N (mg/L)	104-SD	66	n/a	5/8/2017	0.05ND	No	40	n/a	32.5
Ammonia as N (mg/L)	106-SD	1.4	n/a	5/4/2017	28.6	Yes	29	n/a	55.17
Ammonia as N (mg/L)	111-SD	0.35	n/a	5/2/2017	0.05ND	No	40	n/a	82.5
Antimony Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Antimony Total (ug/L)	104-SD	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100
Antimony Total (ug/L)	106-SD	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100
Antimony Total (ug/L)	111-SD	5.0	n/a	5/6/2017	2.5ND	No	40	n/a	100
Arsenic Total (ug/L)	100-SD	15	n/a	5/6/2017	2.5ND	No	40	n/a	90
Arsenic Total (ug/L)	104-SD	27	n/a	5/8/2017	2.5ND	No	40	n/a	82.5
Arsenic Total (ug/L)	106-SD	12	n/a	5/4/2017	2.5ND	Yes	11	n/a	77.5
Arsenic Total (ug/L)	111-SD	5.3	n/a	5/2/2017	2.5ND	No	40	n/a	97.5
Barium Total (ug/L)	100-SD	340	n/a	5/5/2017	317	No	40	7.4e9	2.2e9
Barium Total (ug/L)	104-SD	230	n/a	5/8/2017	105	No	28	5.011	0.17
Barium Total (ug/L)	106-SD	100	n/a	5/4/2017	342	Yes	11	46.65337	199834
Barium Total (ug/L)	111-SD	130	n/a	5/2/2017	105	No	12	4.538	0.1113
Beryllium Total (ug/L)	100-SD	2.2	n/a	5/5/2017	1ND	No	40	n/a	97.5
Beryllium Total (ug/L)	104-SD	2.0	n/a	5/8/2017	1ND	No	40	n/a	100
Beryllium Total (ug/L)	106-SD	2.0	n/a	5/4/2017	1ND	No	40	n/a	100
Beryllium Total (ug/L)	111-SD	2.0	n/a	5/2/2017	1ND	No	40	n/a	100
Boron Total (ug/L)	100-SD	100	n/a	5/5/2017	50ND	No	40	n/a	100
Boron Total (ug/L)	104-SD	1800	n/a	5/8/2017	135	No	40	n/a	75
Boron Total (ug/L)	106-SD	2900	n/a	5/4/2017	544	No	40	n/a	85
Boron Total (ug/L)	111-SD	100	n/a	5/2/2017	50ND	No	40	n/a	97.5
Cadmium Total (ug/L)	100-SD	2.5	n/a	5/5/2017	0.1ND	No	40	n/a	97.5
Cadmium Total (ug/L)	104-SD	0.20	n/a	5/8/2017	0.1ND	No	40	n/a	100
Cadmium Total (ug/L)	106-SD	2.5	n/a	5/4/2017	0.1ND	No	40	n/a	97.5
Cadmium Total (ug/L)	111-SD	0.20	n/a	5/2/2017	0.1ND	No	40	n/a	100
Calcium Total (ug/L)	100-SD	88000	n/a	5/5/2017	76100	No	40	11.25	0.05606
Calcium Total (ug/L)	104-SD	170000	n/a	5/8/2017	84000	No	40	n/a	0
Calcium Total (ug/L)	106-SD	140000	n/a	5/4/2017	96600	No	37	11.57	0.1154
Calcium Total (ug/L)	111-SD	100000	n/a	5/2/2017	89900	No	38	7.5e14	0
Chemical Oxygen Demand [COD] (mg/L)	100-SD	37	n/a	5/5/2017	5ND	No	40	n/a	92.5
Chemical Oxygen Demand [COD] (mg/L)	104-SD	760	n/a	5/8/2017	47.2	No	36	n/a	69.44
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	5/4/2017	63.3	No	40	n/a	75
Chemical Oxygen Demand [COD] (mg/L)	111-SD	63	n/a	5/2/2017	5ND	No	40	n/a	95
Chloride (mg/L)	100-SD	13	n/a	5/5/2017	1.6	No	40	n/a	90
Chloride (mg/L)	104-SD	110	n/a	5/8/2017	3.6	No	26	n/a	0
Chloride (mg/L)	106-SD	1000	n/a	5/4/2017	131	No	40	n/a	0
Chloride (mg/L)	111-SD	19	n/a	5/2/2017	24.1	Yes	40	2.531	0.173
Chromium Total (ug/L)	100-SD	13	n/a	5/5/2017	2.5ND	No	40	n/a	90
Chromium Total (ug/L)	104-SD	13	n/a	5/8/2017	2.5ND	No	40	n/a	82.5
Chromium Total (ug/L)	106-SD	42	n/a	5/4/2017	2.5ND	No	40	n/a	82.5
Chromium Total (ug/L)	111-SD	22	n/a	5/2/2017	2.5ND	No	40	n/a	95
Cobalt Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Cobalt Total (ug/L)	104-SD	10	n/a	5/8/2017	2.5ND	No	40	n/a	97.5
Cobalt Total (ug/L)	106-SD	12	n/a	5/4/2017	2.5ND	No	40	n/a	90
Cobalt Total (ug/L)	111-SD	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	100
Copper Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100
Copper Total (ug/L)	104-SD	13	n/a	5/8/2017	2.5ND	No	40	n/a	95

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	Method
Ammonia as N (mg/L)	100-SD	0.63	n/a	5/5/2017	0.38	No	37	0.4359	0.07903	No
Ammonia as N (mg/L)	104-SD	66	n/a	5/8/2017	0.05ND	No	40	n/a	32.5	n/a
Ammonia as N (mg/L)	106-SD	1.4	n/a	5/4/2017	28.6	Yes	29	n/a	55.17	n/a
Ammonia as N (mg/L)	111-SD	0.35	n/a	5/2/2017	0.05ND	No	40	n/a	82.5	n/a
Antimony Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a
Antimony Total (ug/L)	104-SD	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	100	n/a
Antimony Total (ug/L)	106-SD	5.0	n/a	5/4/2017	2.5ND	No	40	n/a	100	n/a
Antimony Total (ug/L)	111-SD	5.0	n/a	5/6/2017	2.5ND	No	40	n/a	100	n/a
Arsenic Total (ug/L)	100-SD	15	n/a	5/6/2017	2.5ND	No	40	n/a	90	n/a
Arsenic Total (ug/L)	104-SD	27	n/a	5/8/2017	2.5ND	No	40	n/a	82.5	n/a
Arsenic Total (ug/L)	106-SD	12	n/a	5/4/2017	2.5ND	Yes	11	46.65337	199834	x*3
Barium Total (ug/L)	100-SD	340	n/a	5/5/2017	317	No	40	7.4e9	2.2e9	n/a
Barium Total (ug/L)	104-SD	230	n/a	5/8/2017	105	No	28	5.011	0.17	0
Barium Total (ug/L)	106-SD	100	n/a	5/4/2017	342	Yes	11	46.65337	199834	Param Intra 1 of 2
Barium Total (ug/L)	111-SD	130	n/a	5/2/2017	105	No	12	4.538	0.1113	0
Beryllium Total (ug/L)	100-SD	2.2	n/a	5/5/2017	1ND	No	40	n/a	97.5	n/a
Beryllium Total (ug/L)	104-SD	2.0	n/a	5/8/2017	1ND	No	40	n/a	100	n/a
Beryllium Total (ug/L)	106-SD	2.0	n/a	5/4/2017	1ND	No	40	n/a	100	n/a
Beryllium Total (ug/L)	111-SD	2.0	n/a	5/2/2017	1ND	No	40	n/a	100	n/a
Boron Total (ug/L)	100-SD	100	n/a	5/5/2017	50ND	No	40	n/a	100	n/a
Boron Total (ug/L)	104-SD	1800	n/a	5/8/2017	135	No	40	n/a	75	n/a
Boron Total (ug/L)	106-SD	2900	n/a	5/4/2017	544	No	40	n/a	85	n/a
Boron Total (ug/L)	111-SD	100	n/a	5/2/2017	50ND	No	40	n/a	97.5	n/a
Cadmium Total (ug/L)	100-SD	2.5	n/a	5/5/2017	0.1ND	No	40	n/a	97.5	n/a
Cadmium Total (ug/L)	104-SD	0.20	n/a	5/8/2017	0.1ND	No	40	n/a	100	n/a
Cadmium Total (ug/L)	106-SD	2.5	n/a	5/4/2017	0.1ND	No	40	n/a	97.5	n/a
Cadmium Total (ug/L)	111-SD	0.20	n/a	5/2/2017	0.1ND	No	40	n/a	100	n/a
Calcium Total (ug/L)	100-SD	88000	n/a	5/5/2017	76100	No	40	11.25	0.05606	0
Calcium Total (ug/L)	104-SD	170000	n/a	5/8/2017	84000	No	40	n/a	0	n/a
Calcium Total (ug/L)	106-SD	140000	n/a	5/4/2017	96600	No	37	11.57	0.1154	0
Calcium Total (ug/L)	111-SD	100000	n/a	5/2/2017	89900	No	38	7.5e14	0	n/a
Chemical Oxygen Demand [COD] (mg/L)	100-SD	37	n/a	5/5/2017	5ND	No	40	n/a	92.5	n/a
Chemical Oxygen Demand [COD] (mg/L)	104-SD	760	n/a	5/8/2017	47.2	No	36	n/a	69.44	n/a
Chemical Oxygen Demand [COD] (mg/L)	106-SD	3400	n/a	5/4/2017	63.3	No	40	n/a	75	n/a
Chemical Oxygen Demand [COD] (mg/L)	111-SD	63	n/a	5/2/2017	5ND	No	40	n/a	95	n/a
Chloride (mg/L)	100-SD	13	n/a	5/5/2017	1.6	No	40	n/a	90	n/a
Chloride (mg/L)	104-SD	110	n/a	5/8/2017	3.6	No	26	n/a	0	n/a
Chloride (mg/L)	106-SD	1000	n/a	5/4/2017	131	No	40	n/a	0	n/a
Chloride (mg/L)	111-SD	19	n/a	5/2/2017	24.1	Yes	40	2.531	0.173	0
Chromium Total (ug/L)	100-SD	13	n/a	5/5/2017	2.5ND	No	40	n/a	90	n/a
Chromium Total (ug/L)	104-SD	13	n/a	5/8/2017	2.5ND	No	40	n/a	82.5	n/a
Chromium Total (ug/L)	106-SD	42	n/a	5/4/2017	2.5ND	No	40	n/a	82.5	n/a
Chromium Total (ug/L)	111-SD	22	n/a	5/2/2017	2.5ND	No	40	n/a	95	n/a
Cobalt Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a
Cobalt Total (ug/L)	104-SD	10	n/a	5/8/2017	2.5ND	No	40	n/a	97.5	n/a
Cobalt Total (ug/L)	106-SD	12	n/a	5/4/2017	2.5ND	No	40	n/a	90	n/a
Cobalt Total (ug/L)	111-SD	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	100	n/a
Copper Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	100	n/a
Copper Total (ug/L)	104-SD	13	n/a	5/8/2017	2.5ND	No	40	n/a	95	n/a

Prediction Limit

Page 2

Constituent	Well	Bridgewater LF	Client: RSI	Data: Bridgewater LF	Printed 7/11/2017, 4:09 PM					
					Lower Lim.	Upper Lim.	Date	Observ.	Sig.	Bq.N
Copper Total (ug/L)	106-SD	47	n/a	5/4/2017	2.5ND	No	n/a	n/a	95	n/a
Copper Total (ug/L)	111-SD	10	n/a	5/2/2017	2.5ND	No	n/a	n/a	95	n/a
Fluoride (mg/L)	100-SD	2.4	n/a	5/5/2017	2.1	No	26	4.154	0.6542	0
Fluoride (mg/L)	104-SD	1	n/a	5/8/2017	0.73	No	22	0.6967	0.1384	0
Fluoride (mg/L)	106-SD	1.5	n/a	5/4/2017	1.4	No	23	1.552	0.68	0
Fluoride (mg/L)	111-SD	2.4	n/a	5/2/2017	2	No	25	18.37	5.15	0
Hardness Total (mg/L)	100-SD	380	n/a	5/5/2017	331	No	39	5.824	0.04847	0
Hardness Total (mg/L)	104-SD	570	n/a	5/8/2017	417	No	34	1.283	2.687	0
Hardness Total (mg/L)	106-SD	590	n/a	5/4/2017	419	No	35	6.15	0.09469	0
Hardness Total (mg/L)	111-SD	500	n/a	5/2/2017	440	No	38	7.638	0.1242	0
Iron Total (ug/L)	100-SD	2900	n/a	5/5/2017	683	No	39	1623	514.4	0
Iron Total (ug/L)	104-SD	31000	n/a	5/8/2017	181	No	40	7.036	1.332	0
Iron Total (ug/L)	106-SD	8600	n/a	5/4/2017	1040	No	37	11.73	3.576	0
Iron Total (ug/L)	111-SD	8200	n/a	5/2/2017	849	No	40	6.026	1.228	0
Lead Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	n/a	100
Lead Total (ug/L)	104-SD	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	n/a	100
Lead Total (ug/L)	106-SD	25	n/a	5/4/2017	2.5ND	No	40	n/a	n/a	97.5
Lead Total (ug/L)	111-SD	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	n/a	100
Magnesium Total (ug/L)	100-SD	40000	n/a	5/5/2017	34300	No	40	10.48	0.04911	0
Magnesium Total (ug/L)	104-SD	58000	n/a	5/8/2017	50300	No	31	36.99	0.6987	0
Magnesium Total (ug/L)	106-SD	63000	n/a	5/4/2017	57700	No	36	10.82	0.09234	0
Magnesium Total (ug/L)	111-SD	60000	n/a	5/2/2017	52400	No	39	10.89	0.0489	0
Manganese Total (ug/L)	100-SD	34000	n/a	5/5/2017	55	No	40	n/a	n/a	0
Manganese Total (ug/L)	104-SD	200	n/a	5/8/2017	24.3	No	40	4.643	0.26779	0
Manganese Total (ug/L)	106-SD	560	n/a	5/4/2017	25.6	No	40	5.302	1.222	0
Manganese Total (ug/L)	111-SD	40	n/a	5/2/2017	15.3	No	40	n/a	n/a	45
Nickel Total (ug/L)	100-SD	0.20	n/a	5/5/2017	0.1ND	No	40	n/a	n/a	100
Nickel Total (ug/L)	104-SD	0.20	n/a	5/8/2017	0.1ND	No	40	n/a	n/a	100
Nickel Total (ug/L)	106-SD	0.20	n/a	5/4/2017	0.1ND	No	40	n/a	n/a	100
Nickel Total (ug/L)	111-SD	0.20	n/a	5/2/2017	0.1ND	No	40	n/a	n/a	100
Nickel Total (ug/L)	100-SD	10	n/a	5/5/2017	5ND	No	40	n/a	n/a	100
Nickel Total (ug/L)	104-SD	60	n/a	5/8/2017	5ND	No	40	n/a	n/a	75
Nickel Total (ug/L)	106-SD	60	n/a	5/4/2017	5ND	No	40	n/a	n/a	90
Nickel Total (ug/L)	111-SD	10	n/a	5/2/2017	5ND	No	40	n/a	n/a	100
Nitrate/Nitrite (mg/L)	100-SD	0.10	n/a	5/5/2017	0.05ND	No	40	n/a	n/a	100
Nitrate/Nitrite (mg/L)	104-SD	1.3	n/a	5/8/2017	0.05ND	No	40	n/a	n/a	95
Nitrate/Nitrite (mg/L)	106-SD	0.30	n/a	5/4/2017	0.05ND	No	40	n/a	n/a	97.5
Nitrate/Nitrite (mg/L)	111-SD	5.0	n/a	5/2/2017	0.05ND	No	40	n/a	n/a	90
pH [Field] (su)	100-SD	8.2	6.6	5/5/2017	7.18	No	39	1.993	0.0354	0
pH [Field] (su)	104-SD	8.2	6.2	5/8/2017	6.69	No	34	53	5.7	0
pH [Field] (su)	106-SD	8	6.5	5/4/2017	6.9	No	31	1.973	0.04295	0
pH [Field] (su)	111-SD	8.1	6.4	5/2/2017	7.06	No	39	1.976	0.04679	0
Phosphorus Total (mg/L)	100-SD	0.94	n/a	5/5/2017	0.025ND	No	40	n/a	n/a	65
Phosphorus Total (mg/L)	104-SD	0.29	n/a	5/8/2017	0.025ND	No	40	-3.189	0.798	47.5
Phosphorus Total (mg/L)	106-SD	0.23	n/a	5/4/2017	0.059	No	40	0.09779	0.05309	15
Phosphorus Total (mg/L)	111-SD	0.37	n/a	5/2/2017	0.025ND	No	40	n/a	n/a	72.5
Phosphorus Total (mg/L)	100-SD	5.0	n/a	5/5/2017	2.5ND	No	40	n/a	n/a	100
Phosphorus Total (mg/L)	104-SD	5.0	n/a	5/8/2017	2.5ND	No	40	n/a	n/a	100
Phosphorus Total (mg/L)	106-SD	50	n/a	5/4/2017	2.5ND	No	40	n/a	n/a	97.5
Phosphorus Total (mg/L)	111-SD	5.0	n/a	5/2/2017	2.5ND	No	40	n/a	n/a	100

Constituent	Well	Lower Lim.	Upper Lim.	Date	Observ.	Sig.	Bq.N	Bq.Mean	Std.Dev.	%NDS	ND Adt.	Transform	Alpha	Method	
Copper Total (ug/L)	106-SD	47	n/a	5/4/2017	2.5ND	No	40	n/a	n/a	95	n/a	x^3	0.001152	NP Intra (NDS) 1 of 2	
Copper Total (ug/L)	111-SD	10	n/a	5/2/2017	2.5ND	No	40	n/a	n/a	95	n/a	x^2	0.001152	NP Intra (NDS) 1 of 2	
Fluoride (mg/L)	100-SD	2.4	n/a	5/5/2017	2.1	No	26	4.154	0.6542	0	None	x^2	0.0001937	Param Intra 1 of 2	
Fluoride (mg/L)	104-SD	1	n/a	5/8/2017	0.73	No	22	0.6967	0.1384	0	None	x^2	0.0001937	Param Intra 1 of 2	
Fluoride (mg/L)	106-SD	1.5	n/a	5/4/2017	1.4	No	23	1.552	0.68	0	None	x^3	0.0001937	Param Intra 1 of 2	
Fluoride (mg/L)	111-SD	2.4	n/a	5/2/2017	2	No	25	18.37	5.15	0	None	x^4	0.0001937	Param Intra 1 of 2	
Hardness Total (mg/L)	100-SD	380	n/a	5/5/2017	331	No	39	5.824	0.04847	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Hardness Total (mg/L)	104-SD	570	n/a	5/8/2017	417	No	34	1.283	2.687	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Hardness Total (mg/L)	106-SD	590	n/a	5/4/2017	419	No	35	6.15	0.09469	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Hardness Total (mg/L)	111-SD	500	n/a	5/2/2017	440	No	38	7.638	0.1242	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2	
Iron Total (ug/L)	100-SD	2900	n/a	5/5/2017	683	No	39	1623	514.4	0	No	In(x)	0.0001937	Param Intra 1 of 2	
Iron Total (ug/L)	104-SD	31000	n/a	5/8/2017	181	No	40	7.036	1.332	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Iron Total (ug/L)	106-SD	8600	n/a	5/4/2017	1040	No	37	11.73	3.576	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2	
Iron Total (ug/L)	111-SD	8200	n/a	5/2/2017	849	No	40	6.026	1.228	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Lead Total (ug/L)	100-SD	40000	n/a	5/5/2017	34300	No	40	10.48	0.04911	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Lead Total (ug/L)	104-SD	58000	n/a	5/8/2017	50300	No	31	36.99	0.6987	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2	
Lead Total (ug/L)	106-SD	63000	n/a	5/4/2017	57700	No	36	10.82	0.09234	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Lead Total (ug/L)	111-SD	60000	n/a	5/2/2017	52400	No	39	10.89	0.0489	0	None	In(x)	0.0001937	Param Intra 1 of 2	
Magnesium Total (ug/L)	100-SD	34000	n/a	5/5/2017	55	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Magnesium Total (ug/L)	104-SD	200	n/a	5/8/2017	24.3	No	40	4.643	0.26779	0	None	n/a	0.001152	NP Intra (NDS) 1 of 2	
Magnesium Total (ug/L)	106-SD	560	n/a	5/4/2017	25.6	No	40	5.302	1.222	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2	
Magnesium Total (ug/L)	111-SD	40	n/a	5/2/2017	15.3	No	40	n/a	n/a	45	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Manganese Total (ug/L)	100-SD	34000	n/a	5/5/2017	55	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Manganese Total (ug/L)	104-SD	200	n/a	5/8/2017	24.3	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Manganese Total (ug/L)	106-SD	560	n/a	5/4/2017	25.6	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Manganese Total (ug/L)	111-SD	40	n/a	5/2/2017	15.3	No	40	n/a	n/a	45	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Nickel Total (ug/L)	100-SD	0.20	n/a	5/5/2017	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Nickel Total (ug/L)	104-SD	0.20	n/a	5/8/2017	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Nickel Total (ug/L)	106-SD	0.20	n/a	5/4/2017	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Nickel Total (ug/L)	111-SD	0.20	n/a	5/2/2017	0.1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Nitrate/Nitrite (mg/L)	100-SD	0.10	n/a	5/5/2017	0.05ND	No	40	n/a	n/a	100	n/a	n/a	x^2	0.0009683	Param Intra 1 of 2
Nitrate/Nitrite (mg/L)	104-SD	1.3	n/a	5/8/2017	0.05ND	No	40	n/a	n/a	95	n/a	n/a	In(x)	0.0009683	Param Intra 1 of 2
Nitrate/Nitrite (mg/L)	106-SD	0.30	n/a	5/4/2017	0.05ND	No	40	n/a	n/a	97.5	n/a	n/a	In(x)	0.0009683	Param Intra 1 of 2
Nitrate/Nitrite (mg/L)	111-SD	5.0	n/a	5/2/2017	0.05ND	No	40	n/a	n/a	90	n/a	n/a	In(x)	0.0009683	Param Intra 1 of 2
Nitrate/Nitrite (mg/L)	100-SD	8.2	6.6	5/5/2017	7.18	No	39	1.993	0.0354	0	None	In(x)	0.0009683	Param Intra 1 of 2	
pH [Field] (su)	104-SD	8.2	6.2	5/8/2017	6.69	No	34	53	5.7	0	None	x^2	0.0009683	Param Intra 1 of 2	
pH [Field] (su)	106-SD	8	6.5	5/4/2017	6.9	No	31	1.973	0.04295	0	None	In(x)	0.0009683	Param Intra 1 of 2	
pH [Field] (su)	111-SD	8.1	6.4	5/2/2017	7.06	No	39	1.976	0.04679	0	None	In(x)	0.0009683	Param Intra 1 of 2	
Phosphorus Total (mg/L)	100-SD	0.94	n/a	5/5/2017	0.025ND	No	40	n/a	n/a	65	n/a	n/a	0.001152	NP Intra (NDS) 1 of 2	
Phosphorus Total (mg/L)	104-SD														

Prediction Limit

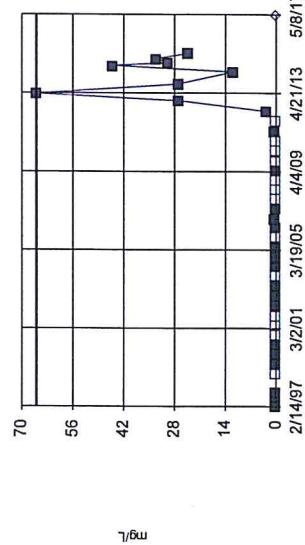
Page 3

		Bridgewater LF	Client: RSI	Data: Bridgewater LF	Printed 7/11/2017, 4:09 PM									
Constituent	Well	Lower Lim.	Upper Lim.	Date	Observe.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Silver Total (ug/L)	100-SD	5.0	n/a	5/5/2017	2.5 ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	104-SD	5.0	n/a	5/8/2017	2.5 ND	No	38	n/a	n/a	100	n/a	n/a	0.001286	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	106-SD	5.0	n/a	5/4/2017	2.5 ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Silver Total (ug/L)	111-SD	5.0	n/a	5/2/2017	2.5 ND	No	39	n/a	n/a	100	n/a	n/a	0.001219	NP Intra (NDs) 1 of 2
Sodium Total (ug/L)	100-SD	13000	n/a	5/5/2017	6520	No	40	20.08	1.372	0	None	x^(1/3)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	104-SD	36000	n/a	5/8/2017	14700	No	12	10.04	0.1454	0	None	In(x)	0.0001937	Param Intra 1 of 2
Sodium Total (ug/L)	106-SD	560000	n/a	5/4/2017	100000	No	40	n/a	n/a	0	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sodium Total (ug/L)	111-SD	25000	n/a	5/2/2017	18200	No	38	9.94	0.0286	0	None	In(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	100-SD	7/0	n/a	5/5/2017	609	No	39	2.58	4.167	0	None	x^3	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	104-SD	1500	n/a	5/8/2017	1920	Yes	33	6.911	0.1526	0	None	In(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	106-SD	1200	n/a	5/4/2017	1570	Yes	36	6.803	0.1014	0	None	In(x)	0.0001937	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	111-SD	1000	n/a	5/2/2017	827	No	39	731124	112677	0	None	x^2	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	100-SD	15	n/a	5/5/2017	9.6	No	40	2.323	0.1561	0	None	In(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	104-SD	100	n/a	5/8/2017	17.3	No	40	n/a	0	n/a	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Sulfate (mg/L)	106-SD	160	n/a	5/4/2017	53.5	No	40	87.24	31.12	2.5	None	In(x)	0.0001937	Param Intra 1 of 2
Sulfate (mg/L)	111-SD	67	n/a	5/2/2017	56.9	No	39	3.932	0.1116	0	None	In(x)	0.0001937	Param Intra 1 of 2
Thallium Total (ug/L)	100-SD	2.0	n/a	5/5/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	104-SD	2.0	n/a	5/8/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	106-SD	2.0	n/a	5/4/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Thallium Total (ug/L)	111-SD	2.0	n/a	5/2/2017	1ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	100-SD	400	n/a	5/5/2017	312	No	37	5.819	0.07451	0	None	In(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	104-SD	780	n/a	5/8/2017	391	No	32	6.38	0.11	0	None	In(x)	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	106-SD	700	n/a	5/4/2017	772	Yes	36	538.1	65.86	0	None	n/a	0.0001937	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	111-SD	560	n/a	5/2/2017	574	Yes	38	6.175	0.06301	0	None	In(x)	0.0001937	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SD	29	n/a	5/5/2017	1	No	40	n/a	n/a	32.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	104-SD	32	n/a	5/8/2017	5ND	No	32	n/a	n/a	62.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	106-SD	370	n/a	5/4/2017	19	No	37	n/a	n/a	37.84	n/a	n/a	0.001353	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	111-SD	30	n/a	5/2/2017	0.5 ND	No	40	n/a	n/a	42.5	n/a	n/a	0.001152	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	100-SD	10	n/a	5/5/2017	5ND	No	40	n/a	n/a	100	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	104-SD	38	n/a	5/8/2017	5ND	No	40	n/a	n/a	87.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	106-SD	42	n/a	5/4/2017	5ND	No	40	n/a	n/a	90	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Vanadium Total (ug/L)	111-SD	33	n/a	5/2/2017	5ND	No	40	n/a	n/a	97.5	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	100-SD	120	n/a	5/5/2017	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)	104-SD	96	n/a	5/8/2017	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	5/4/2017	10ND	No	40	n/a	n/a	80	n/a	n/a	0.001152	NP Intra (NDs) 1 of 2
Zinc Total (ug/L)	111-SD	100	n/a	5/2/2017	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

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Within Limit

Prediction Limit Intrawell Non-parametric

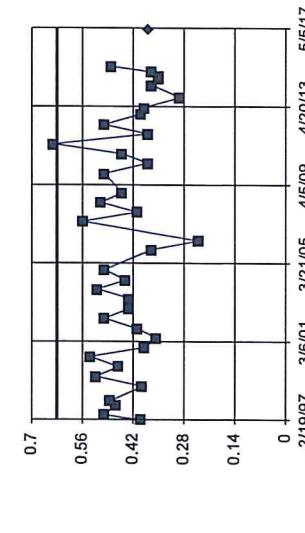


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 32.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

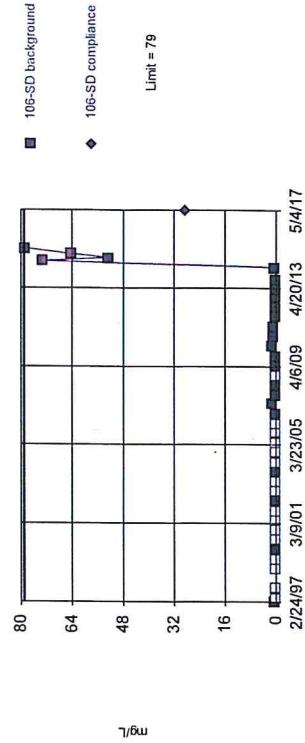
Prediction Limit Intrawell Parametric



Background Data Summary: Mean=0.4359, Std. Dev.=0.07903, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8826, critical = 0.514. kappa = 2.45 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner outlier test was performed on the background data. Three background outliers were removed: <0.1 (5/24/2003), 0.13 (11/8/2006), 1.2 (5/8/2009).

Constituent: Ammonia as N Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit Intrawell Non-parametric

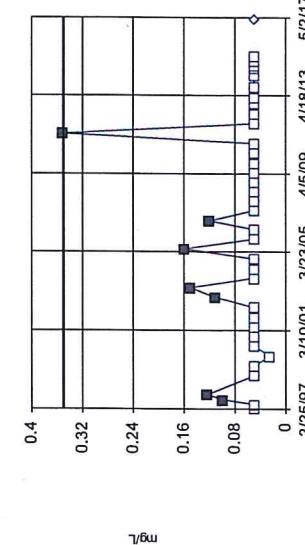


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 40% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

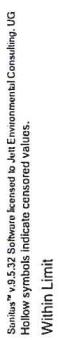
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Hollow symbols indicate censored values.
Within Limit

Prediction Limit Intrawell Non-parametric



No-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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Hollow symbols indicate censored values.**



Prediction Limit
Within Limit
Intrawell Non-parametric



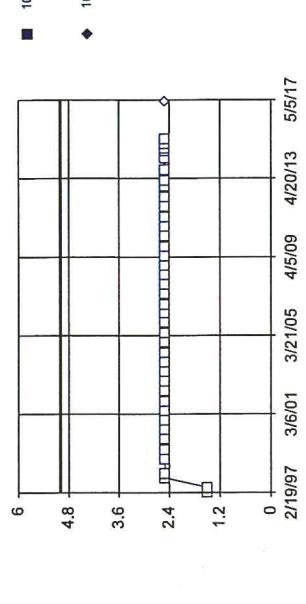
Non-parametric test used in lieu of parametric precision limit because censored data exceeded 50%. All background noise levels ($n = 10$) were censored; limit is most recent reporting limit. Walk-constituent pair annual alpha = 0.004602, individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-r-normal, so outlier results were invalidated.



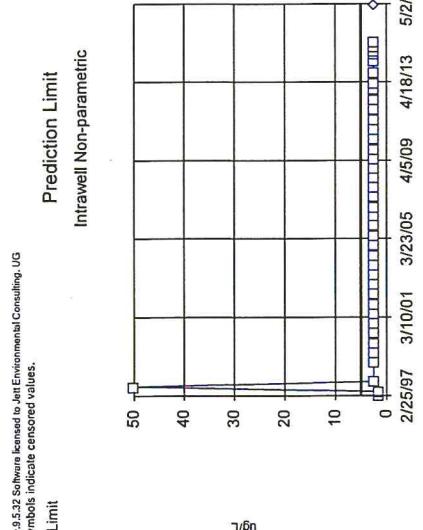
Constituent: Antimony Total Analysis Run 7/11/2017 2:58 PM
Bridgeport LF Client: RSI Data: Bridgeton LF



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



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Welt-constituent pair annual alpha = 0.004662. Individual companion alpha = 0.01152 (1 or 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



Sanitas v.9.5.22 Software licensed to Jef Environmental Consulting UG
Hollow symbols indicate censored values.

Intrawell Non-parametric

Prediction Limit

Within Limit

ln(g/L)

Limit = 5.0

Legend:

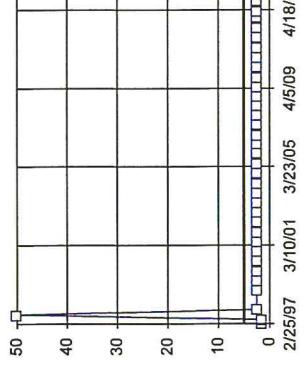
- 111-SD background
- 111-SD compliance

Date	ln(g/L)
2/25/97	~10
3/10/01	~10
3/23/05	~10
4/5/09	~10
4/18/13	~10
5/2/11	~10

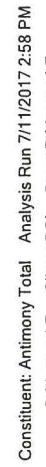
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001582 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



Element: Antimony Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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

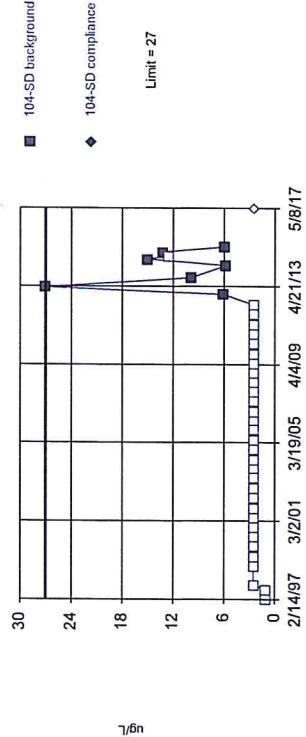


Constituent: Antimony Total Analysis Run 7/11/2017 2:58 PM

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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

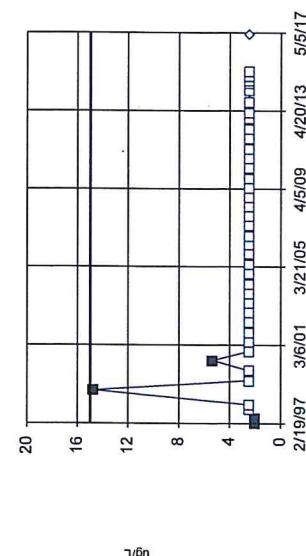


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 82.5% NDs. Weil-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



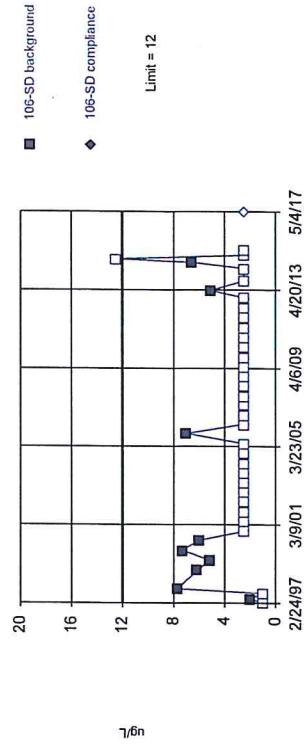
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Weil-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Arsenic Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Arsenic Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Arsenic Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric
Within Limit

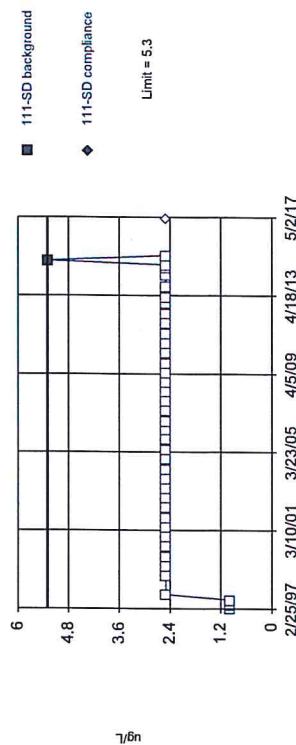


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 77.5% NDs. Weil-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Arsenic Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

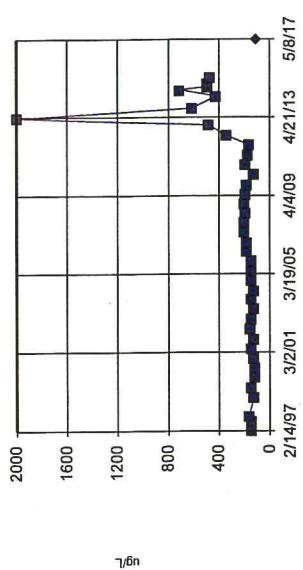
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



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

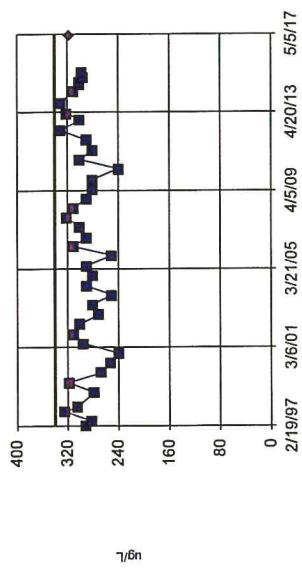
Within Limit
Prediction Limit
Intrawell Non-parametric



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. Welch-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 [1 of 2]. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

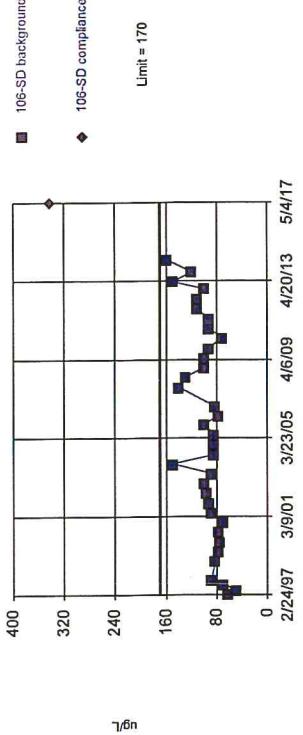
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on x'4 transformation): Mean=7.49, Std. Dev.=2.268, n=40, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.919. Kappa = 2.426 (c=34, w=4, 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 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

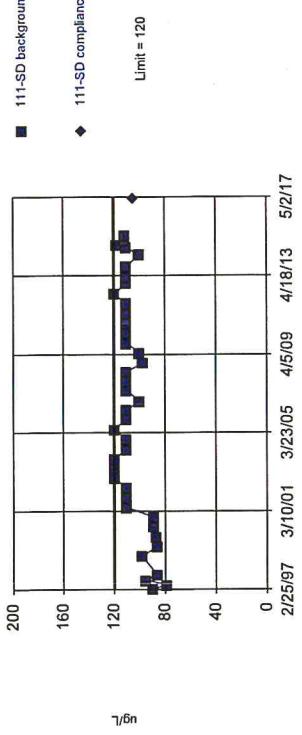
Within Limit
Exceeds Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.53, Std. Dev.=0.2517, n=35, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9644, critical = 0.91. Kappa = 2.466 (c=34, w=4, of 2, event alpha = 0.028). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Five background outliers were removed: 220 (5/21/2007); 1400 (9/24/2014); 924 (11/20/2014); 1140 (2/4/2015); 985 (5/14/2015).

Constituent: Barium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Non-parametric



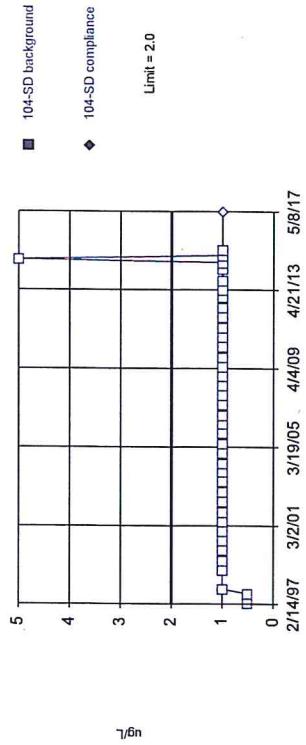
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Welch-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Barium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

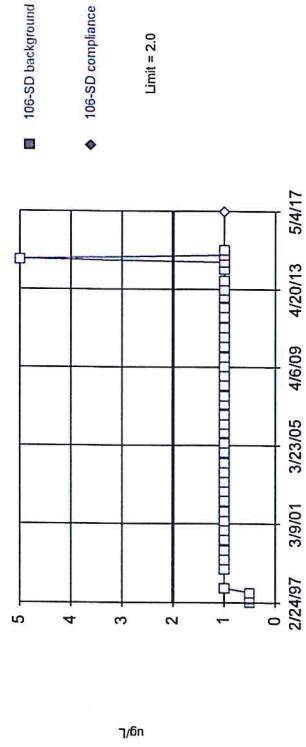
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

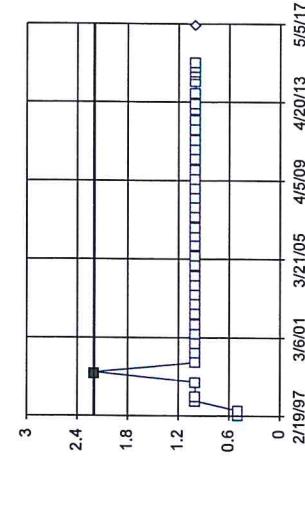


Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

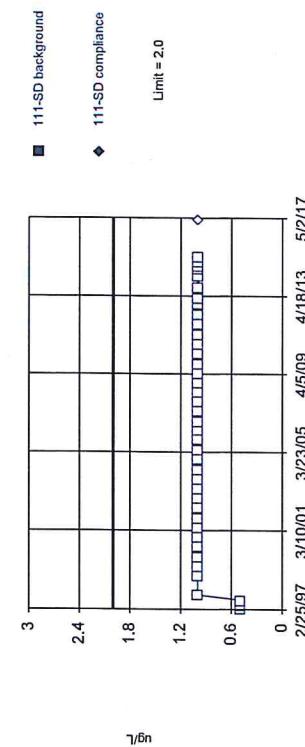
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

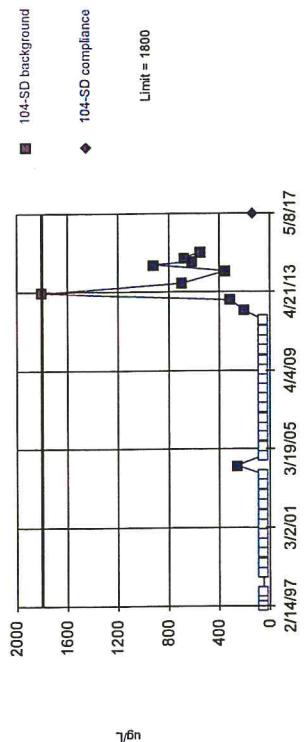
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Beryllium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

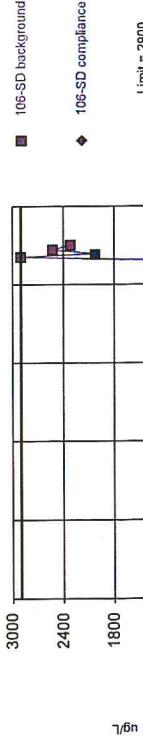


Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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

Prediction Limit
Intrawell Non-parametric
Within Limit

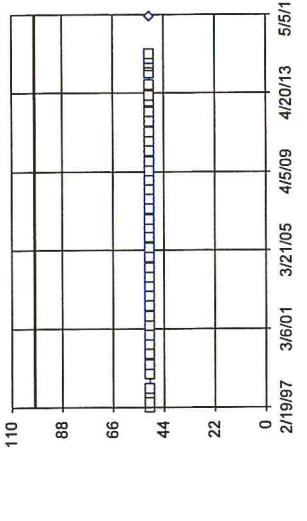


Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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.

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

Prediction Limit
Intrawell Non-parametric
Within Limit

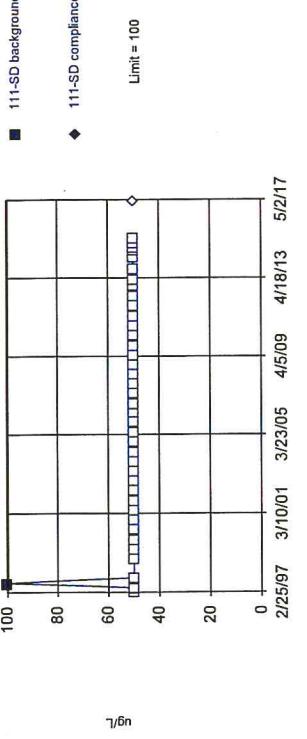


Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit
Intrawell Non-parametric
Within Limit



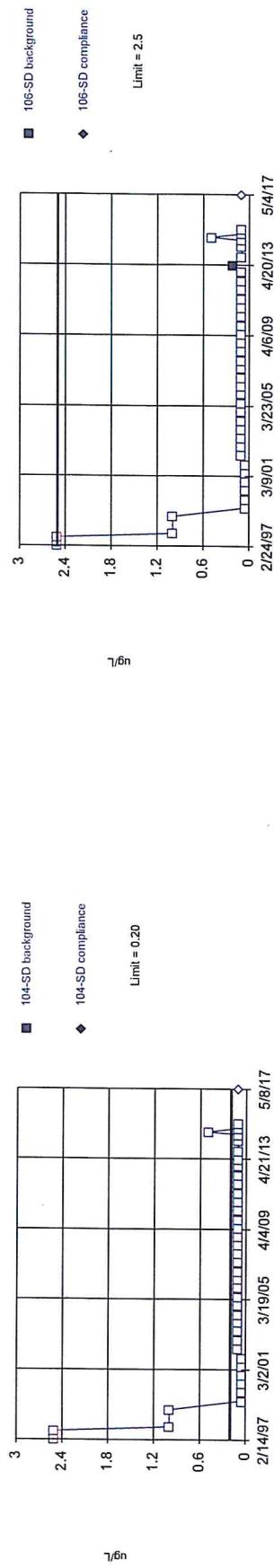
Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Boron Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

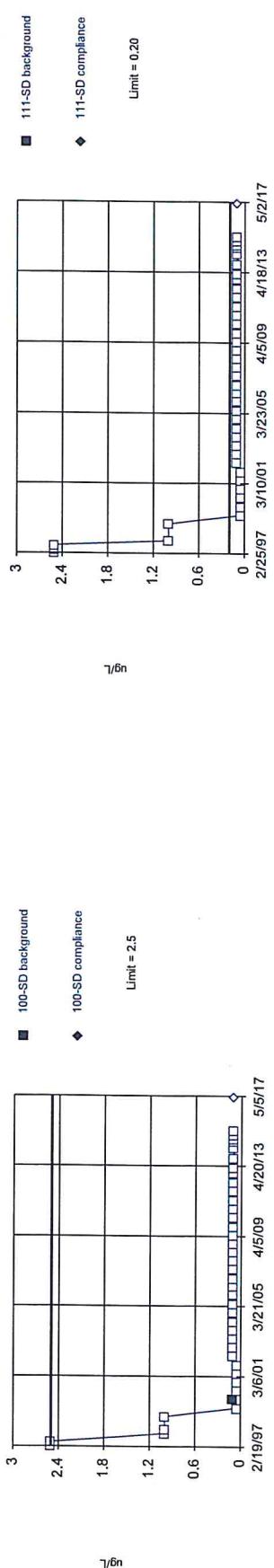
Prediction Limit
 Intrawell Non-parametric



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

Constituent: Cadmium Total Analysis Run 7/11/2017 2:58 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

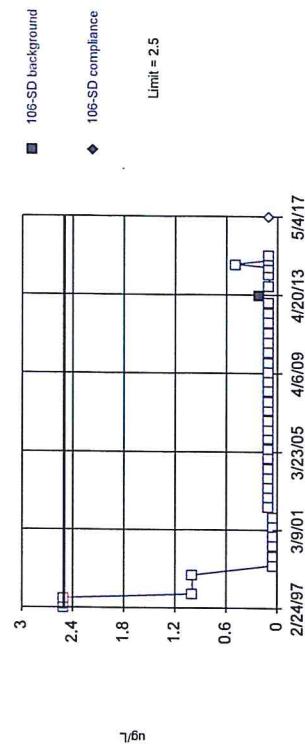
Prediction Limit
 Intrawell Non-parametric



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

Constituent: Cadmium Total Analysis Run 7/11/2017 2:58 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

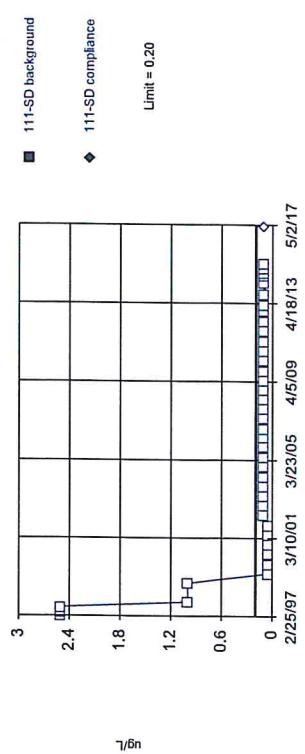
Prediction Limit
 Intrawell Non-parametric



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

Constituent: Cadmium Total Analysis Run 7/11/2017 2:58 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

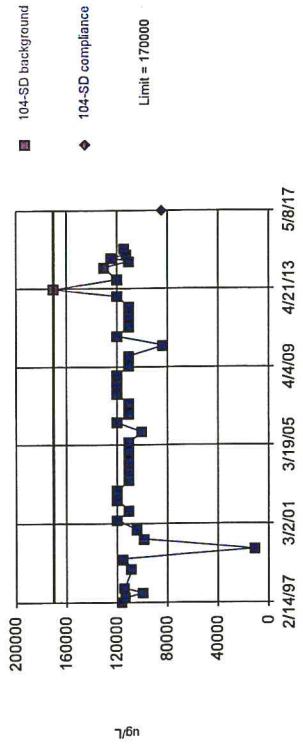
Prediction Limit
 Intrawell Non-parametric



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

Constituent: Cadmium Total Analysis Run 7/11/2017 2:58 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

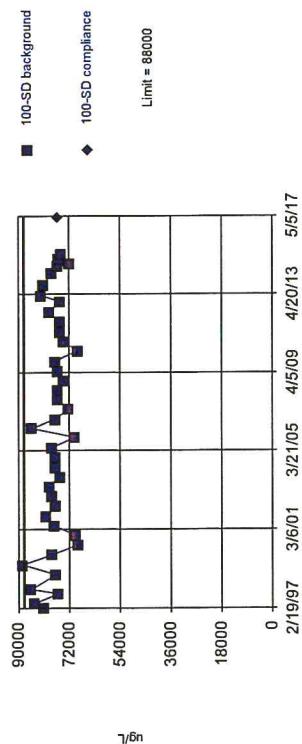
Within Limit
Prediction Limit
Intrawell Non-parametric



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 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Calcium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

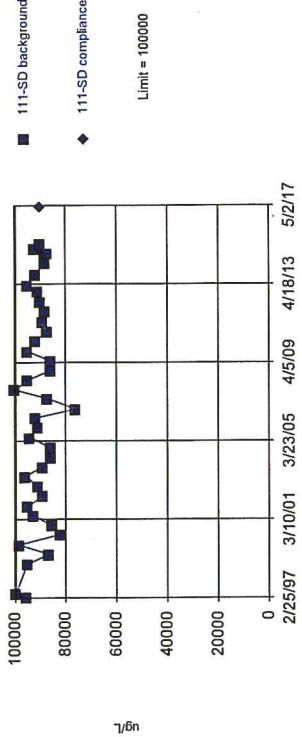
Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=11.25, Std. Dev.=0.05606, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9571, critical = 0.9719. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Calcium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Within Limit
Prediction Limit
Intrawell Parametric



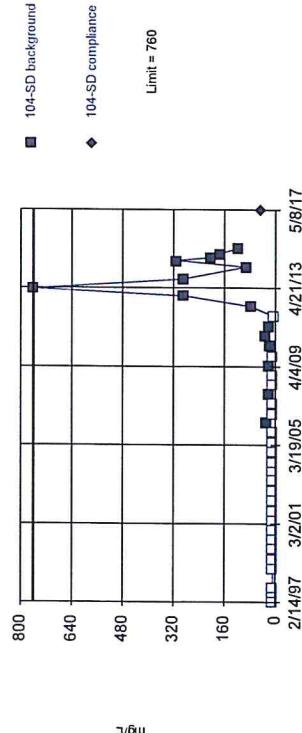
Background Data Summary (based on natural log transformation): Mean=11.57, Std. Dev.=0.1181, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9547, critical = 0.9716. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 200000 (9/24/2014); 176000 (2/4/2015).

Constituent: Calcium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

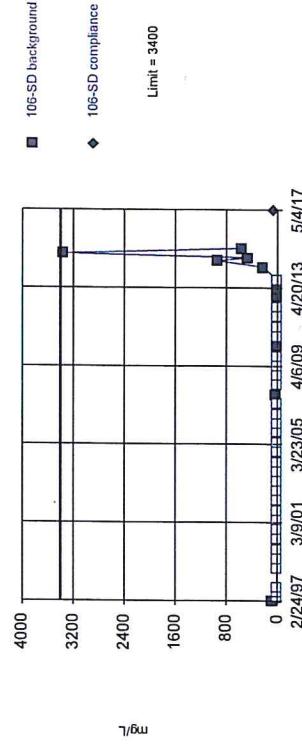
Santos™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

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

Prediction Limit
Intrawell Non-parametric
Within Limit

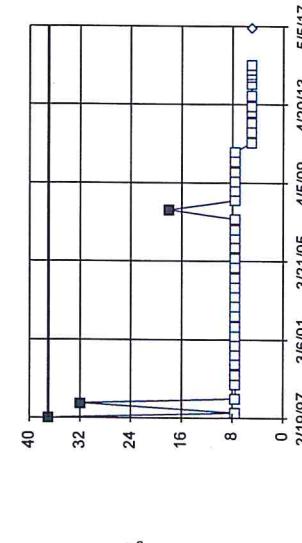


Prediction Limit
Intrawell Non-parametric
Within Limit



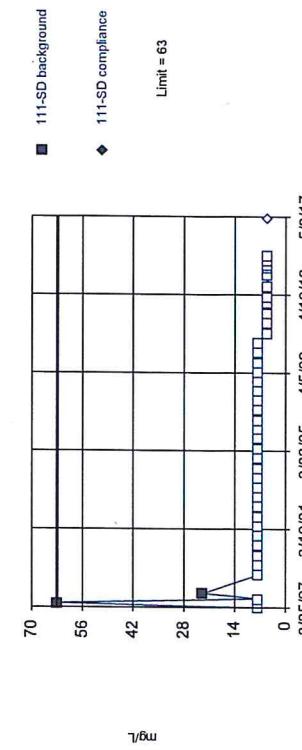
Santos™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

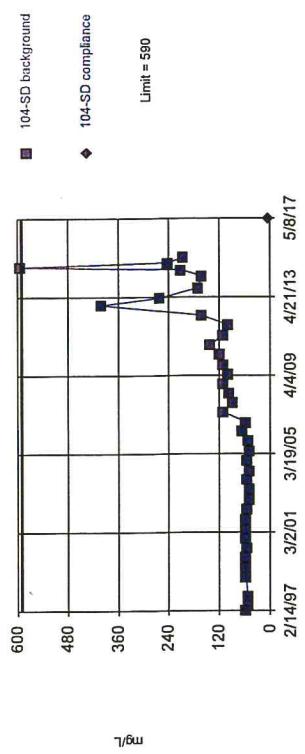


Santos™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



Within Limit
Prediction Limit
Intrawell Non-parametric

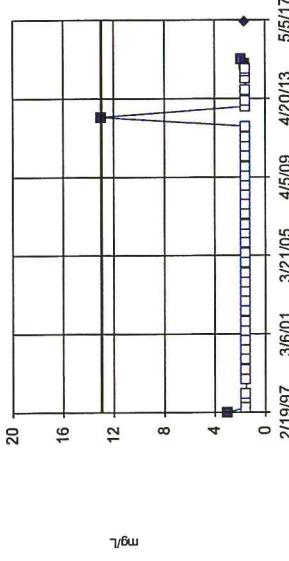


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Chloride Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

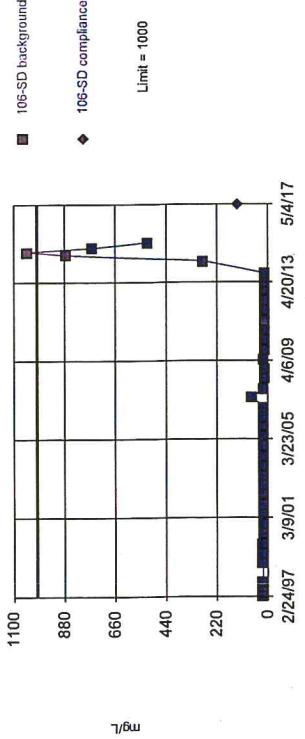
Prediction Limit
Intrawell Non-parametric



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

Constituent: Chloride Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Non-parametric

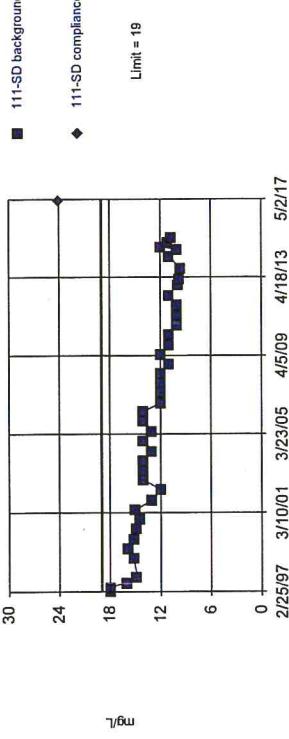


Non-Parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Chloride Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Parametric



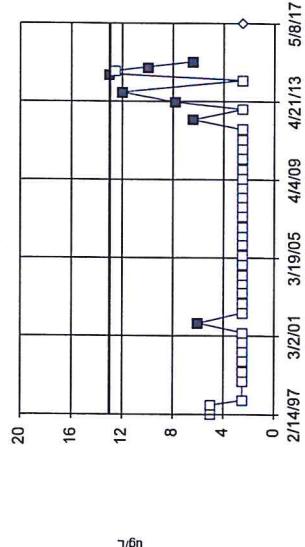
Background Data Summary (based on natural log transformation): Mean=2.531, Std. Dev=0.173, n=0. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.3402, critical = 0.918. Kappa = 2.426 (C=34, w=1, t=2, event alpha = 0.026). Report alpha = 0.001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's), No background outliers were found.

Constituent: Chloride Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

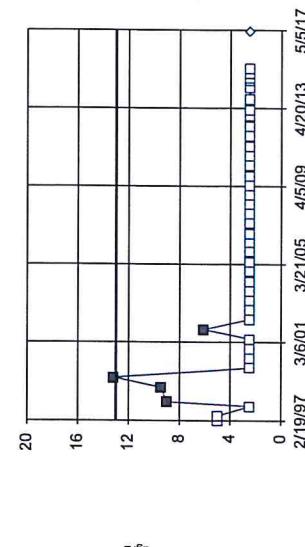
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Chromium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

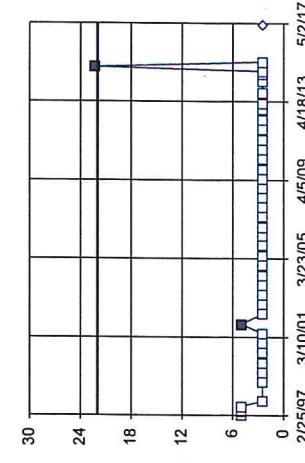
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Chromium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



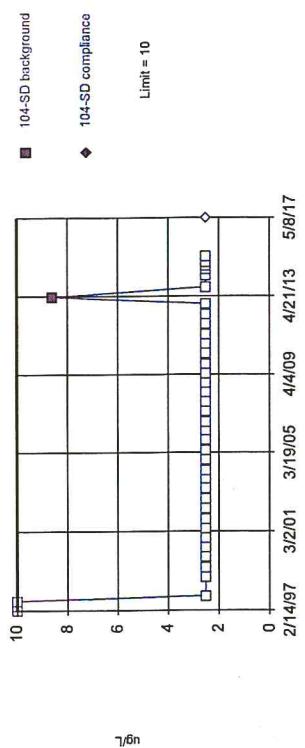
Constituent: Chromium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Chromium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Chromium Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

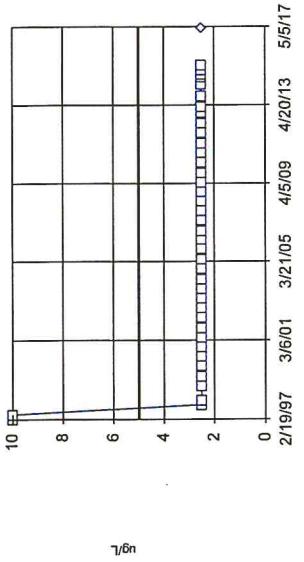


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

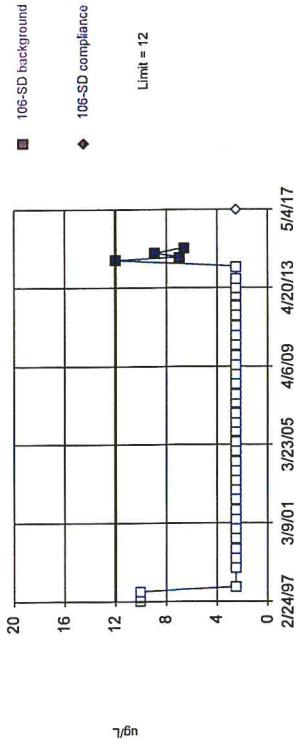
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

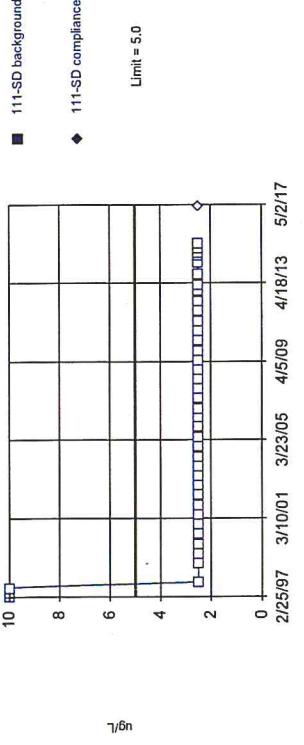


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

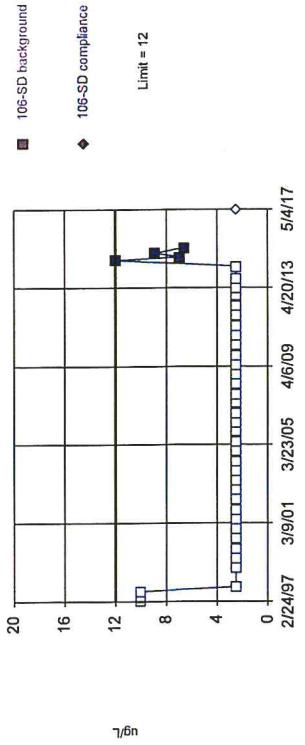
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

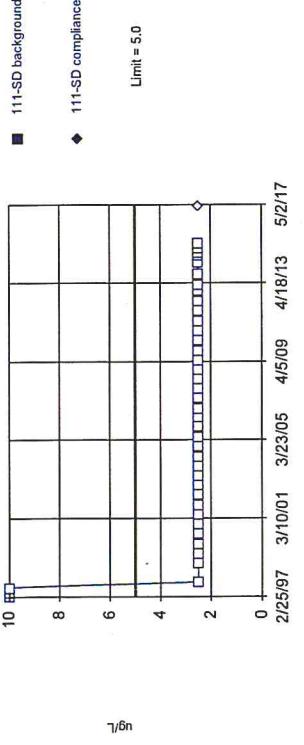


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v.9.5.32 Software licensed to Jell Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



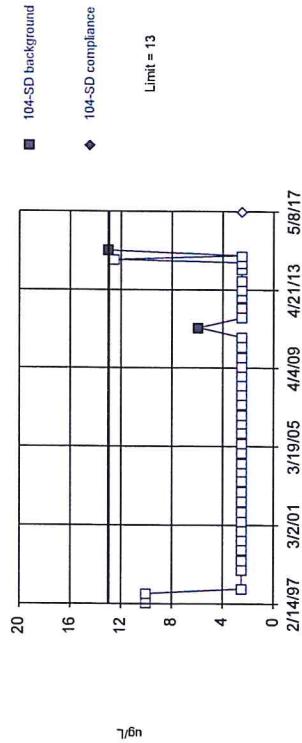
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Cobalt Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Cobalt Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

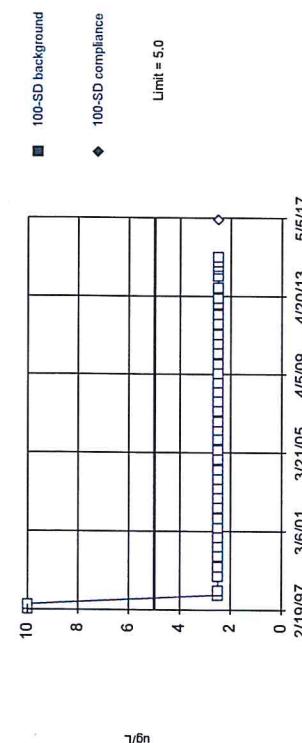


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

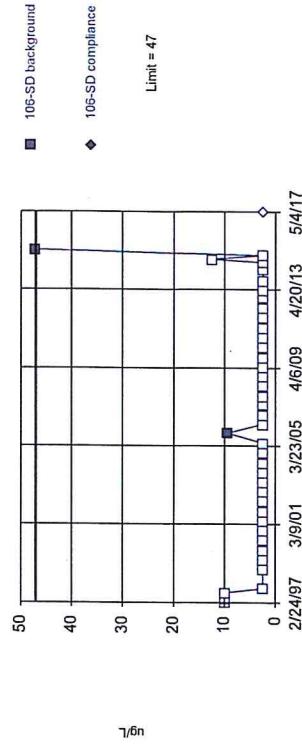
Prediction Limit
Intrawell Non-parametric



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

Santius™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

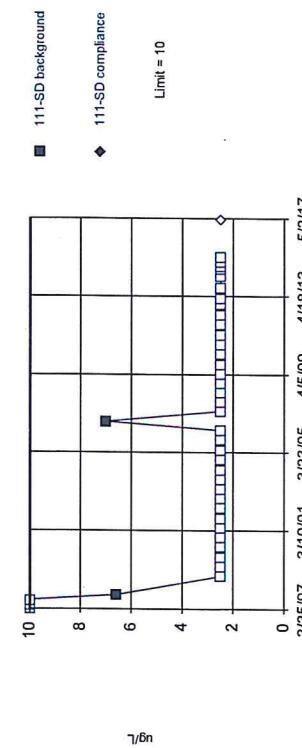


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 7/11/2017 2:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

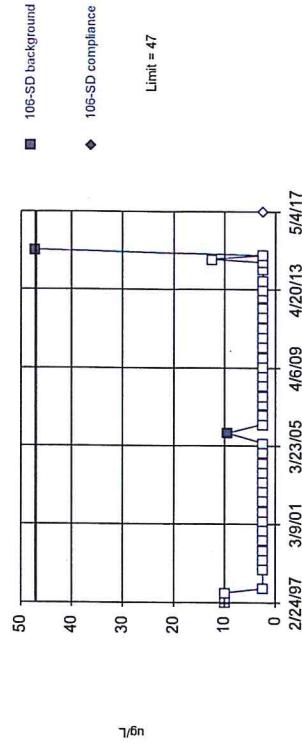
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Santius™ v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric



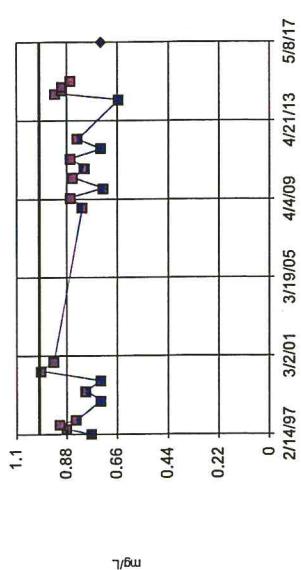
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values, 95% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Copper Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Copper Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Copper Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

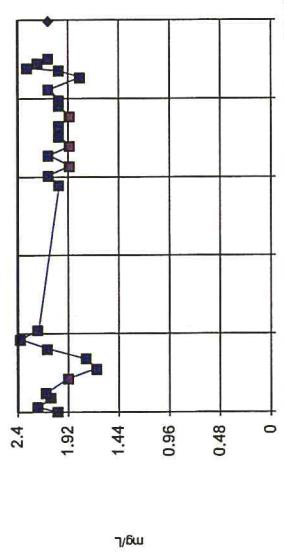
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.6367, Std. Dev.=0.1384, n=22. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9836, critical = 0.878. Kappa = 2.66 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1.26 (5/15/2001); <0.1 (11/27/2012); 0.21 (4/11/2013); <0.1 (10/7/2013).

Constituent: Fluoride Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

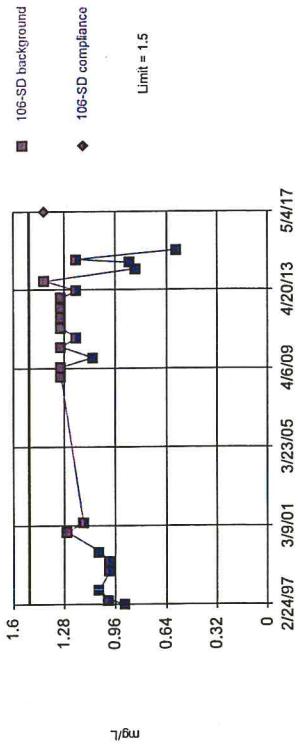
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square transformation): Mean=4.154, Std. Dev.=0.6542, n=26. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9765, critical = 0.891. Kappa = 2.75 (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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

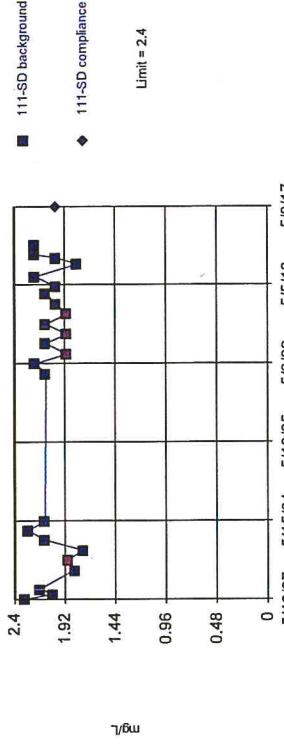
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.552, Std. Dev.=0.068, n=23. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9378, critical = 0.881. Kappa = 2.63 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Three background outliers were removed: <0.25 (8/28/1997); 2.24 (5/23/2000); 0.18 (2/4/2015).

Constituent: Fluoride Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

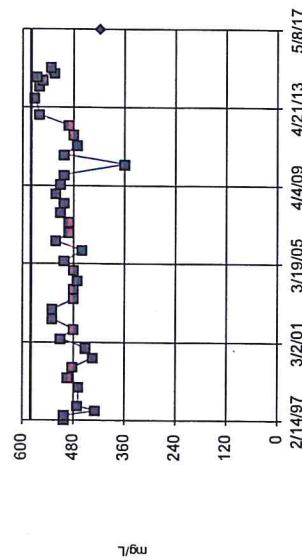
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on x^4 transformation): Mean=18.37, Std. Dev.=5.15, n=25. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9559, critical = 0.888. Kappa = 2.59 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 1.2 (2/25/1997).

Constituent: Fluoride Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

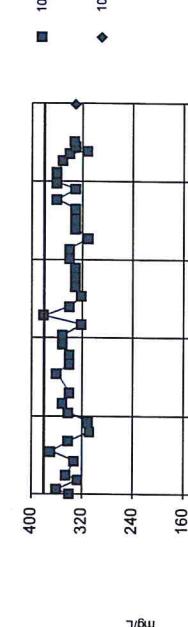
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=1.268, Std. Dev.=2.9e7, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9649, critical = 0.917. Kappa = 2.134 (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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

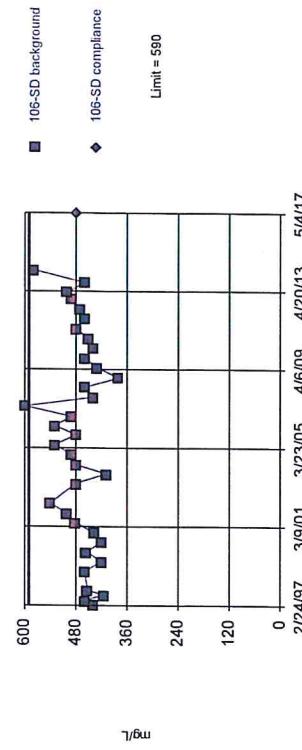
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.824, Std. Dev.=0.04847, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9622, critical = 0.916. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 120 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

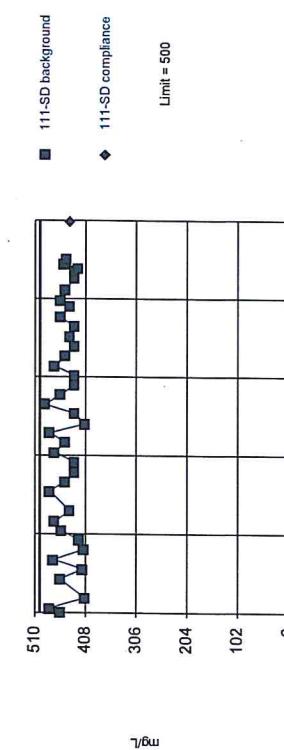
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.15, Std. Dev.=0.09469, n=35. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. Kappa = 2.466 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Five background outliers were removed: 180 (11/19/2002); 1300 (9/24/2014); 838 (11/20/2014); 1100 (2/4/2015); 817 (5/14/2015).

Constituent: Hardness Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

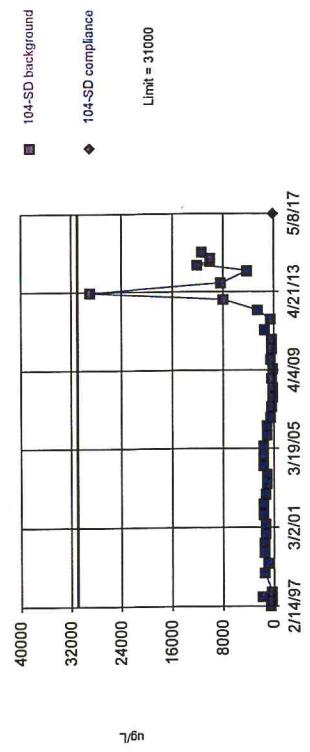
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=7.638, Std. Dev.=0.1212, n=38. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 37.1 (8/21/1997); 150 (11/19/2002).

Constituent: Hardness Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric

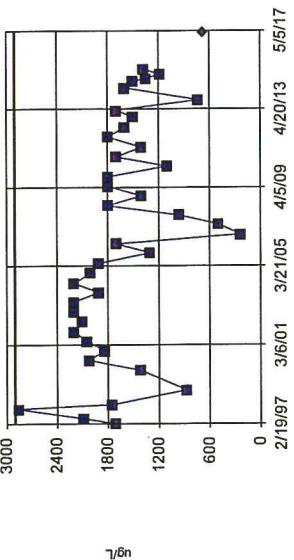


Background Data Summary (based on natural log transformation): Mean=7,096, Std. Dev.=1,332, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9354, critical = 0.919. Kappa = 2,426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

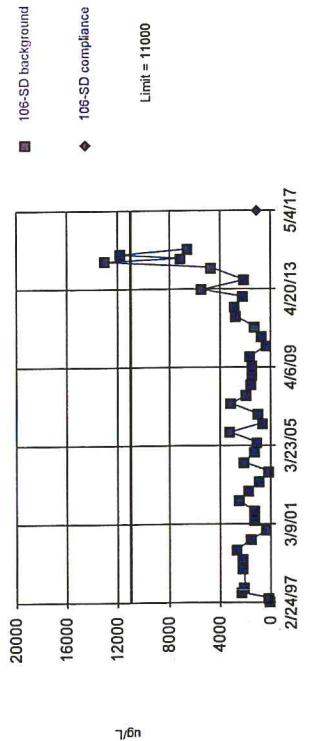
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=1623, Std. Dev.=514.4, n=39. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9632, critical = 0.917. Kappa = 2,434 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier test was performed on the background data. One background outlier was removed: 3550 (5/18/1989).

Constituent: Iron Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric

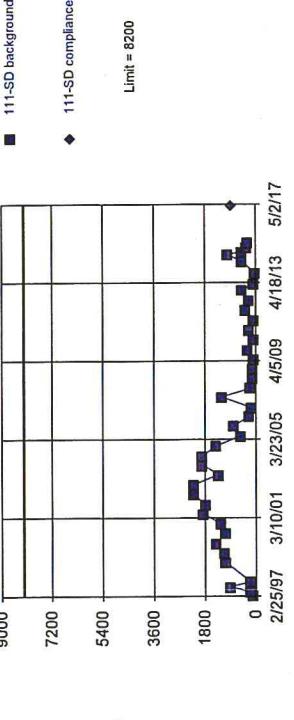


Background Data Summary (based on cube root transformation): Mean=12,37, Std. Dev.=4,148, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.919. Kappa = 2,426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Parametric



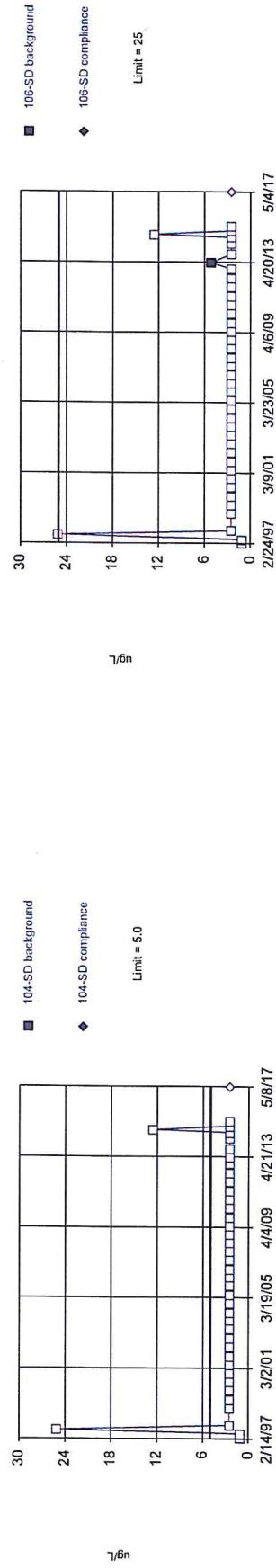
Background Data Summary (based on natural log transformation): Mean=6,026, Std. Dev.=1,228, n=0. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9369, critical = 0.919. Kappa = 2,426 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Iron Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santabarbara v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

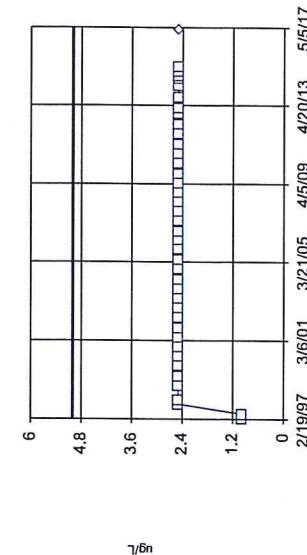


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Lead Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

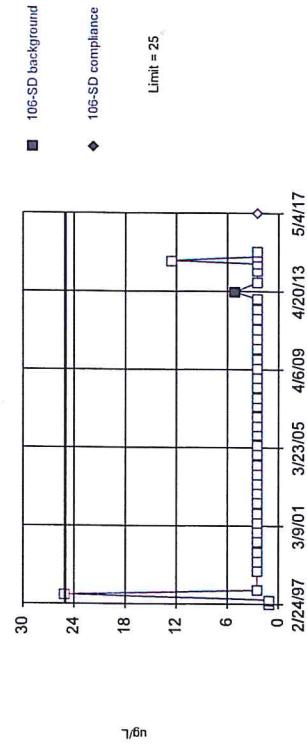
Prediction Limit
Intrawell Non-parametric



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

Constituent: Lead Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

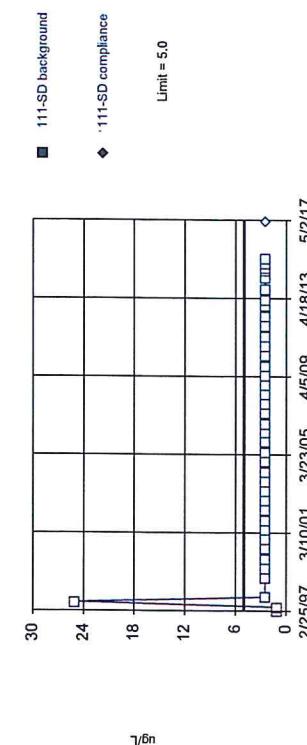


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 97.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Lead Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara v9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

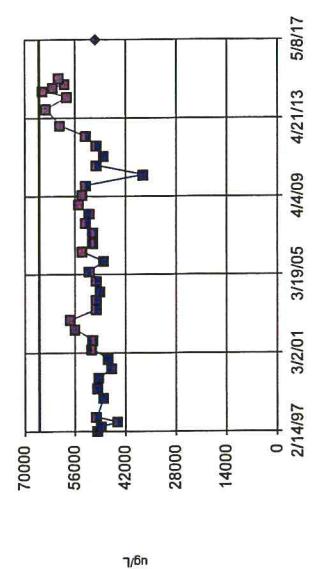
Prediction Limit
Intrawell Non-parametric



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

Constituent: Lead Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

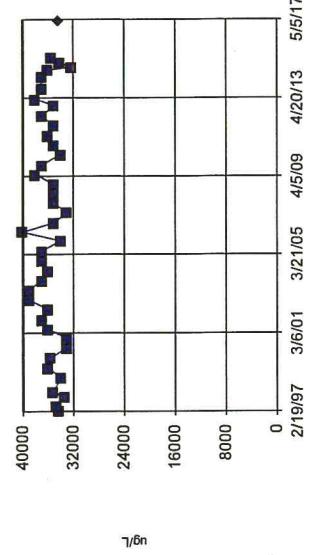
Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=228.1, Std. Dev.=12.08, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9487, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 or 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),

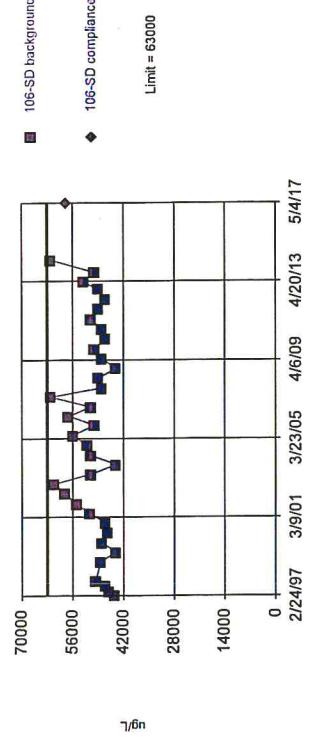
Constituent: Magnesium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.48, Std. Dev.=0.04911, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1889 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

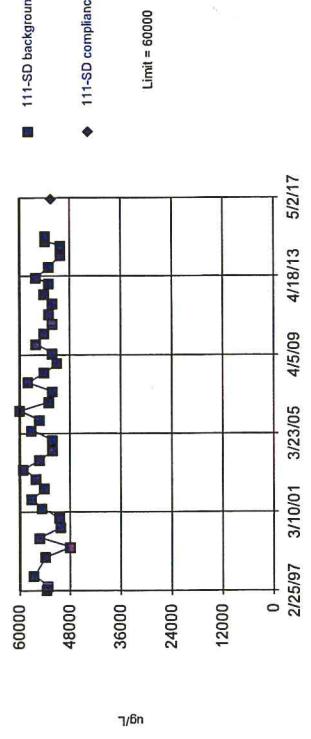
Constituent: Magnesium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.0824, n=36, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9134, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 190000 (9/24/2014); 160000 (2/4/2015); 120000 (5/14/2015).

Constituent: Magnesium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

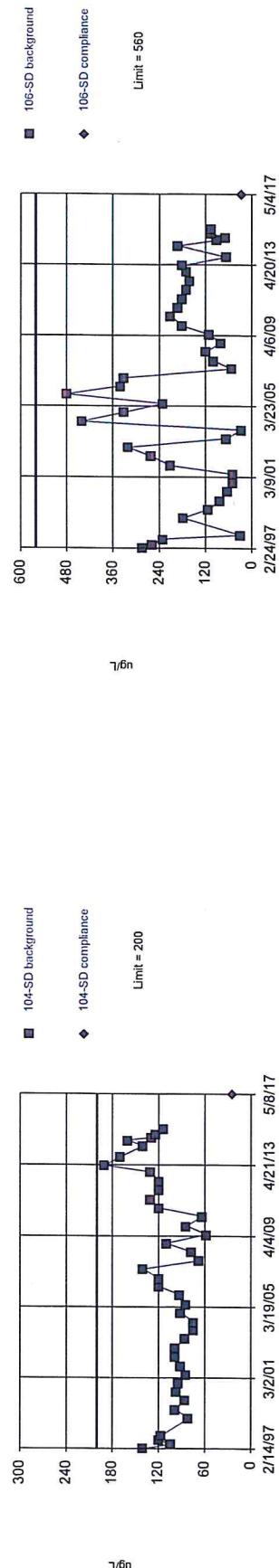
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.89, Std. Dev.=0.0489, n=39, Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9842, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 or 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).

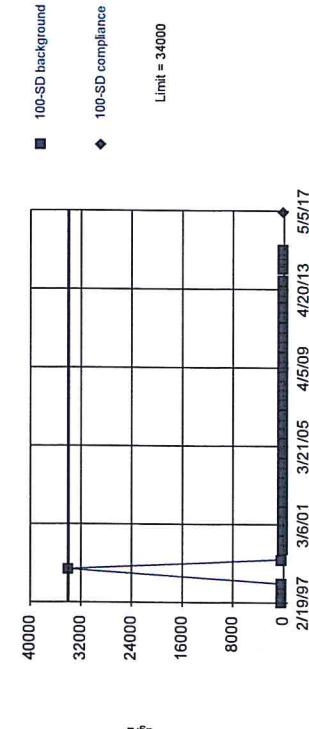
Constituent: Magnesium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



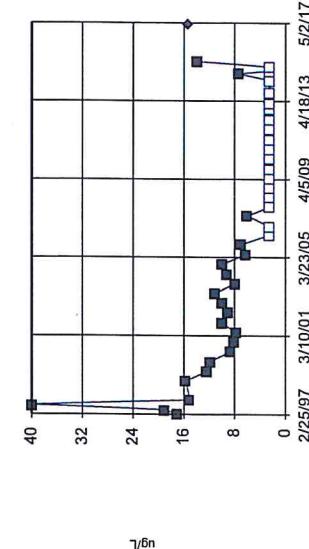
Constituent: Manganese Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric



Constituent: Manganese Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric

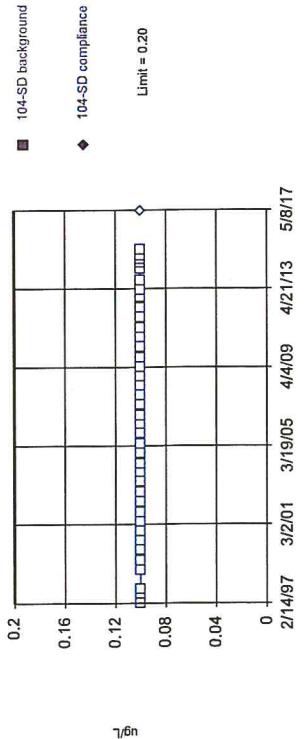


Constituent: Manganese Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

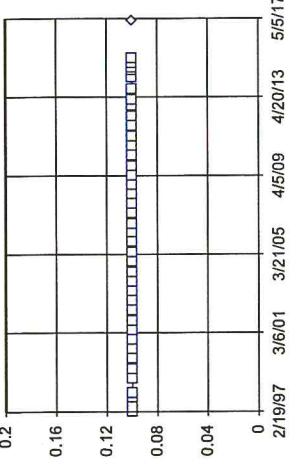
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 45% NDS. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



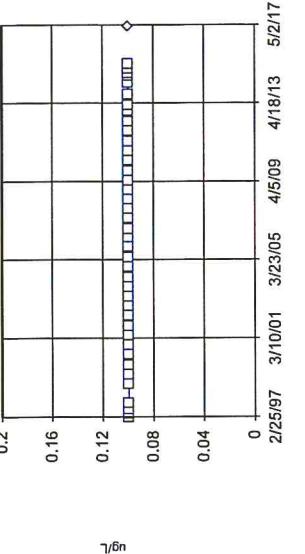
Within Limit
Sureshot™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.



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



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



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.04602. Individual companion alpha = 0.01152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.



| 50%. All background
alpha = 0.004602.
| normal, so outlier results

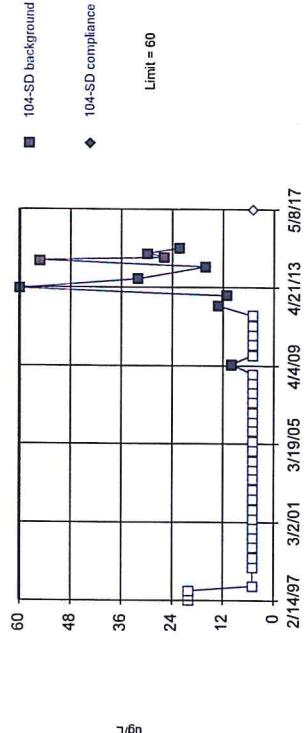


Constituent: Mercury Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

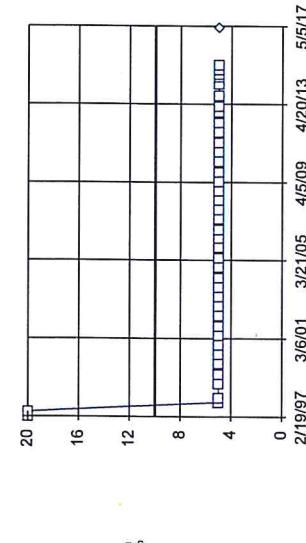


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 75% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Nickel Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

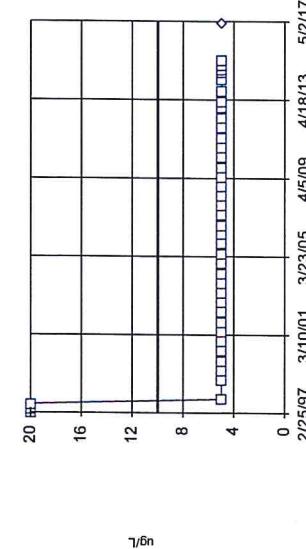


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Nickel Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



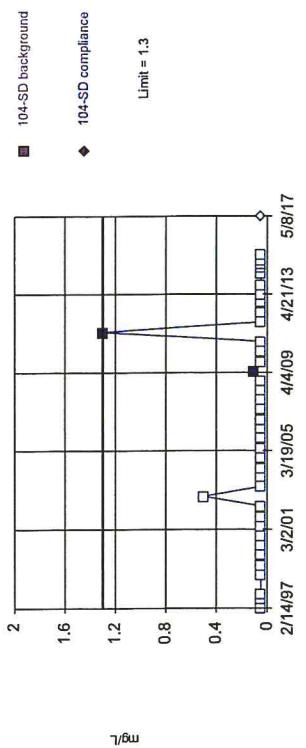
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 90% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so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

Constituent: Nickel Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Nickel Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

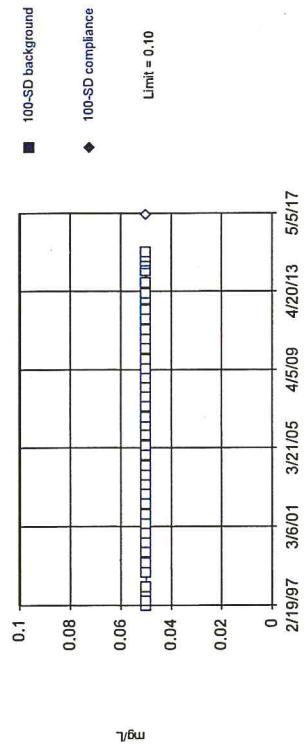
Prediction Limit
Intrawell Non-Parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

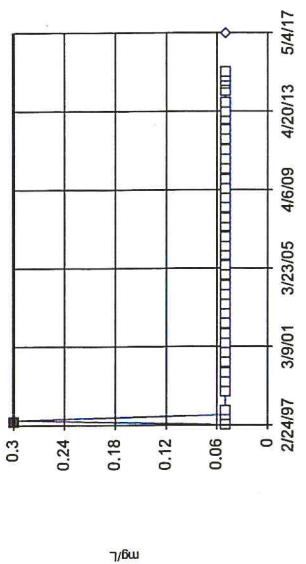
Prediction Limit
Intrawell Non-Parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

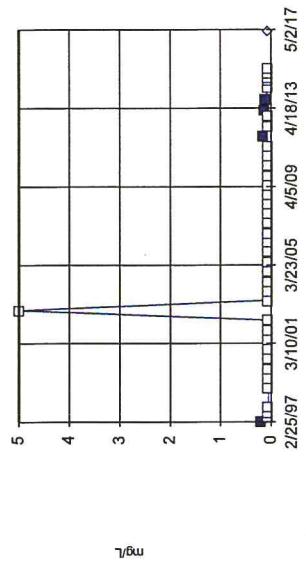
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Nitrate/Nitrite Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jent Environmental Consulting UG
Within Limits

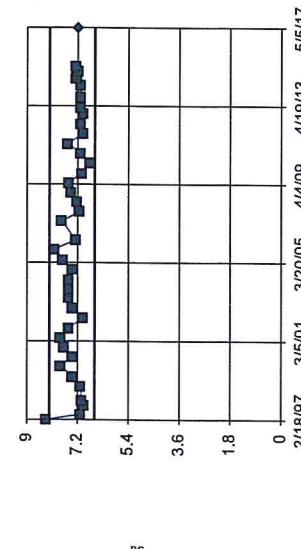
Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jent Environmental Consulting, UG
Within Limits

Prediction Limit
Intrawell Parametric

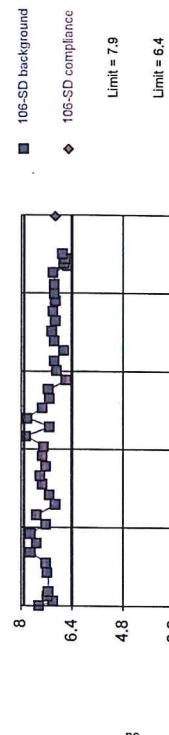


Constituent: pH [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jent Environmental Consulting UG

Within Limits

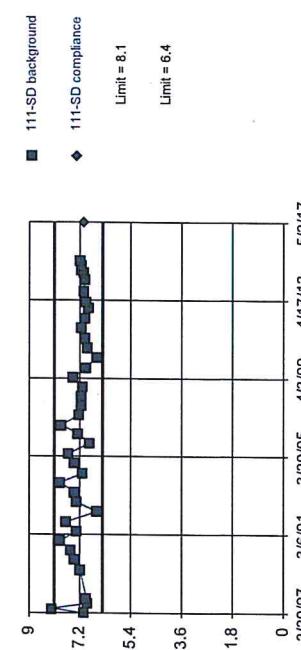
Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santius™ v.9.5.32 Software licensed to Jent Environmental Consulting, UG
Within Limits

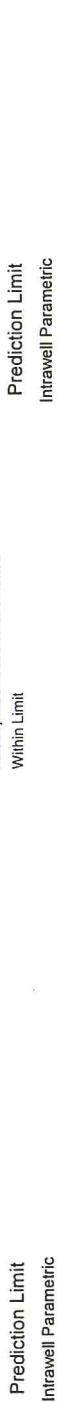
Prediction Limit
Intrawell Parametric



Constituent: pH [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v9.5.32 Software licensed to Jent Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

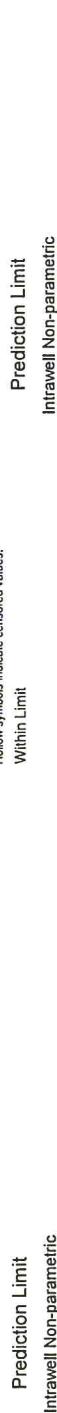
Santax™ v9.5.32 Software licensed to Jen Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=3.189, Std. Dev.=0.798, n=40, 47.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9209, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

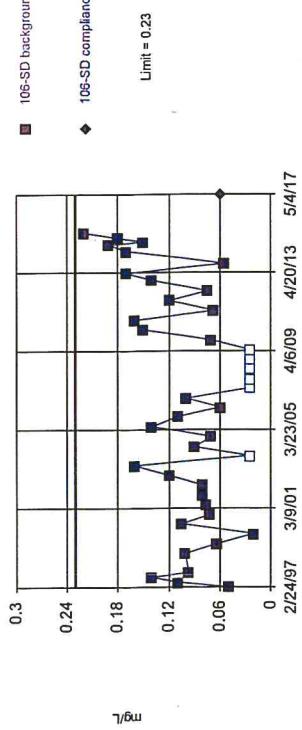
Santax™ v9.5.32 Software licensed to Jen Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 65% NDs. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

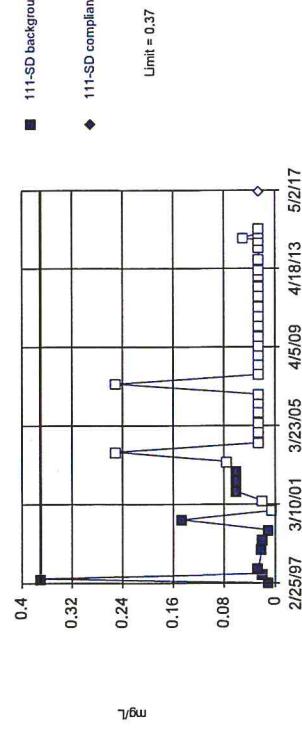
Prediction Limit
Intrawell Parametric
Within Limit



Background Data Summary: Mean=0.05039, Std. Dev.=0.05779. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9491, critical = 0.919. EPA 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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santax™ v9.5.32 Software licensed to Jen Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit



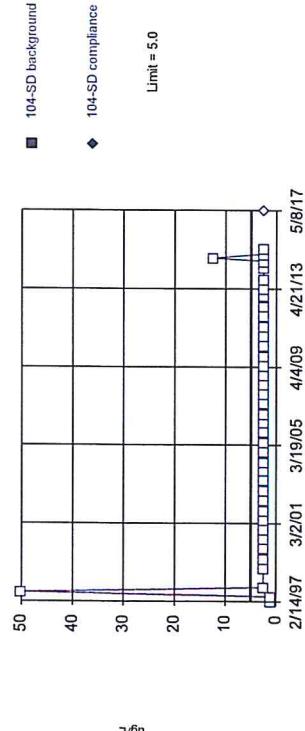
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 72.5% NDs. Well-constituent pair annual alpha = 0.04602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Phosphorus Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

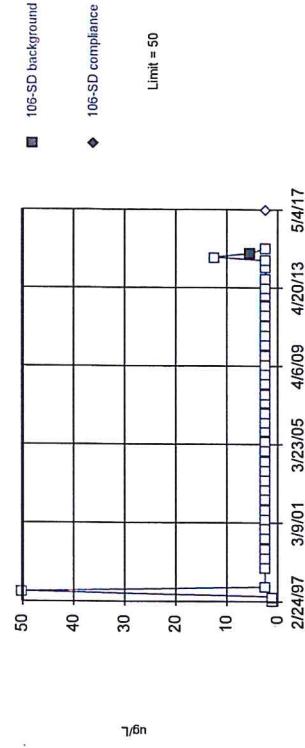
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Selenium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Non-parametric
Within Limit

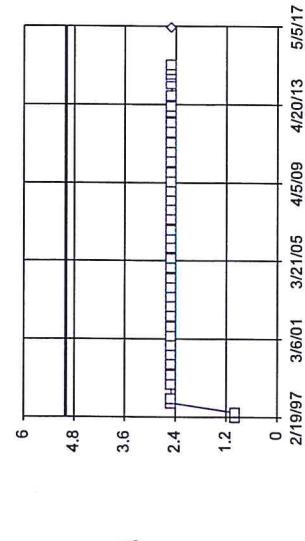


Constituent: Selenium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

Prediction Limit
Intrawell Non-parametric
Within Limit

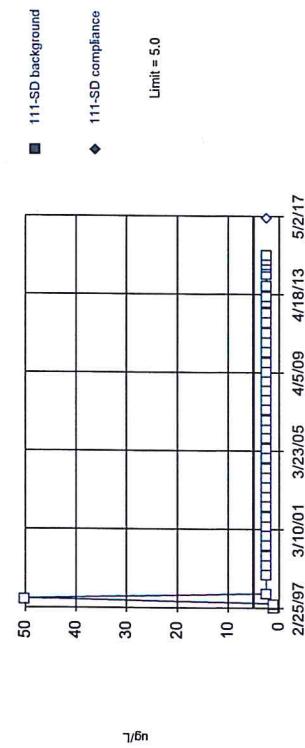


Constituent: Selenium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

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

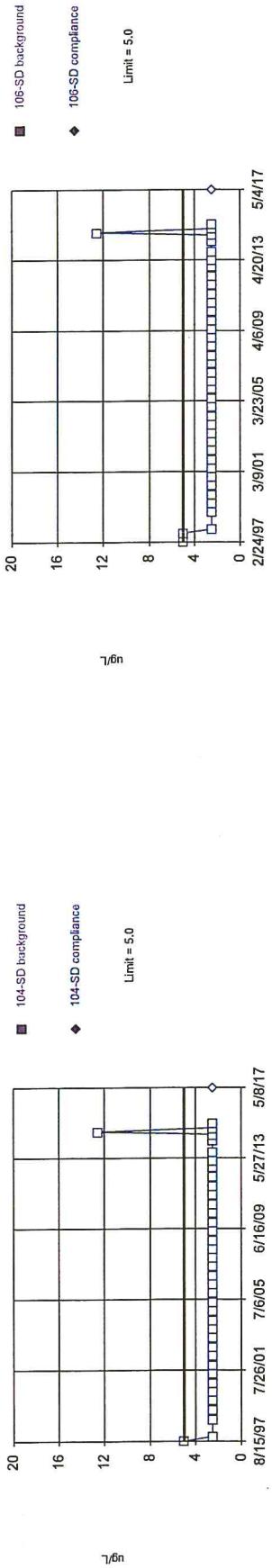
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Selenium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
 Intrawell Non-parametric

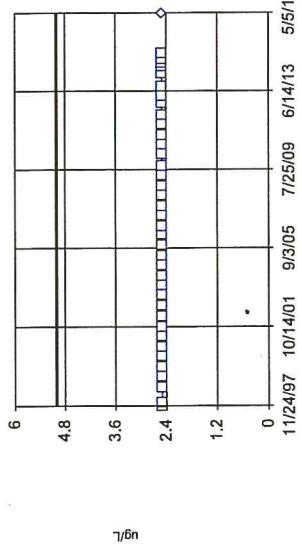


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 38$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 7/11/2017 2:59 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Silver Total Analysis Run 7/11/2017 2:59 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
 Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 38$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.005135. Individual comparison alpha = 0.001286 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 7/11/2017 2:59 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

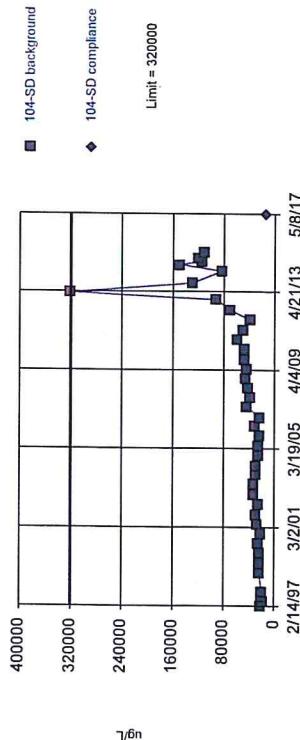
Constituent: Silver Total Analysis Run 7/11/2017 2:59 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 39$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004868. Individual comparison alpha = 0.001219 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Silver Total Analysis Run 7/11/2017 2:59 PM
 Bridgeton LF Client: RSI Data: Bridgeton LF

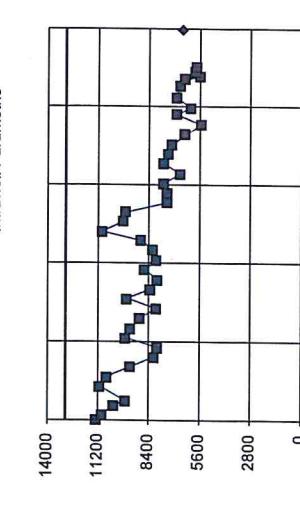
Within Limit
Prediction Limit
Intrawell Non-parametric



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

Constituent: Sodium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

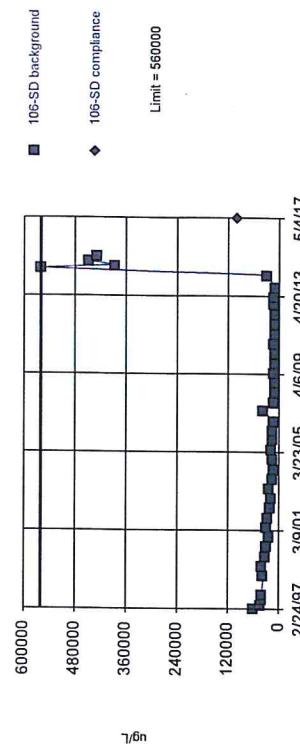
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=20.08, Std. Dev.=1.372, n=40. Normally test: Shapiro Wilk @alpha = 0.01 calculated = 0.9567, critical = 2.426 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dinsons/Rosner's). No background outliers were found.

Constituent: Sodium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

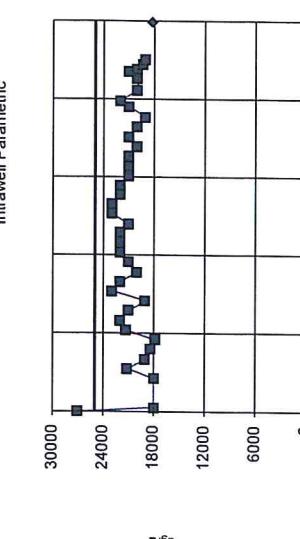
Within Limit
Prediction Limit
Intrawell Non-parametric



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

Constituent: Sodium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

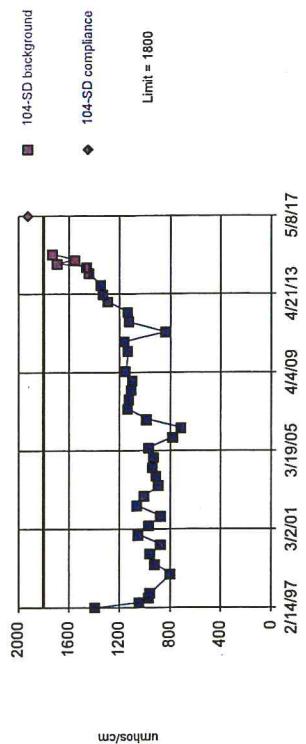
Within Limit
Prediction Limit
Intrawell Non-parametric



Background Data Summary (based on natural log transformation): Mean=9.94, Std. Dev.=0.08286, n=38. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 2.442 (c=34, w=4, 1 or 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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

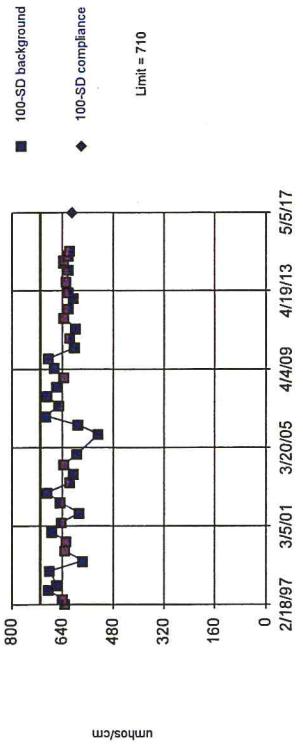
Exceeds Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.975, Std Dev=0.2109, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.963, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 or 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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

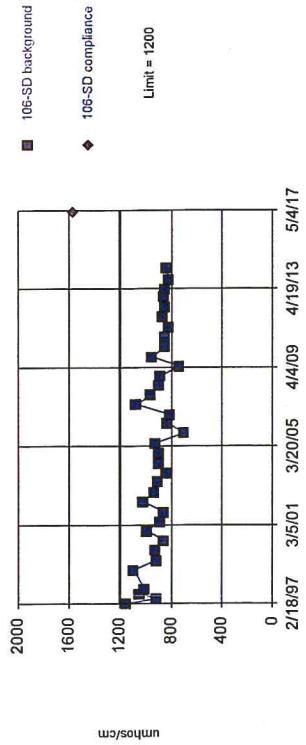
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=2.5e8, Std Dev=.4, 167, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 1.966, critical = 1.917. Kappa = 2.434 (c=34, w=4, 1 or 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 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

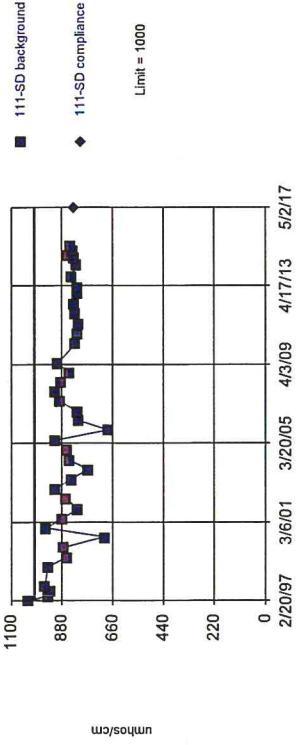
Exceeds Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=6.803, Std Dev=.5-1014, n=36. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.965, critical = 0.912. Kappa = 2.458 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 4250 (9/24/2014); 3260 (11/20/2014); 3750 (2/4/2015); 3640 (5/14/2015).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric

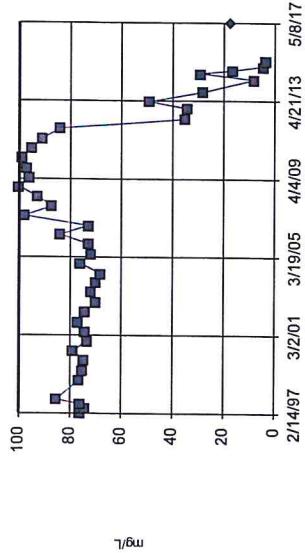


Background Data Summary (based on square transformation): Mean=73124, Std Dev=.12677, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.959, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 157.9 (11/3/2009).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Within Limit

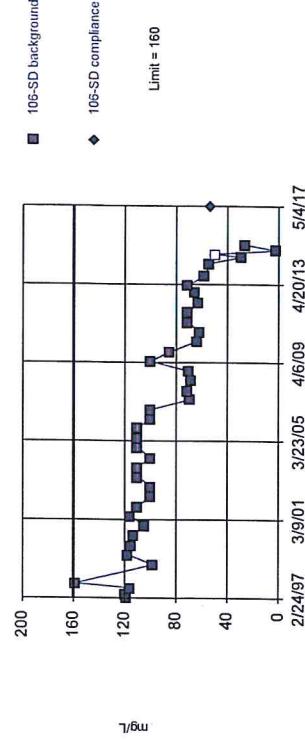
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

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Hollow symbols indicate censored values.

Prediction Limit
Intrawell Parametric
Within Limit



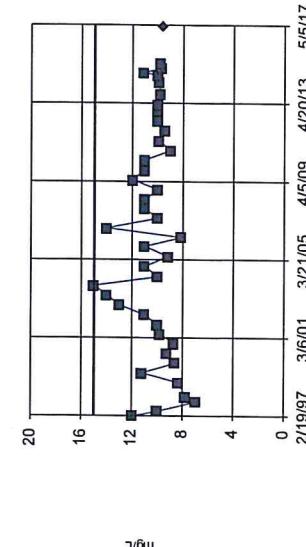
Background Data Summary: Mean=87.24, Std. Dev.=31.12, n=40, 2.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9381, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.0001937. Distribution was found to be non-normal after removal of suspect values, so outliers could not be identified.

Constituent: Sulfate Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Sulfate Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Parametric
Within Limit



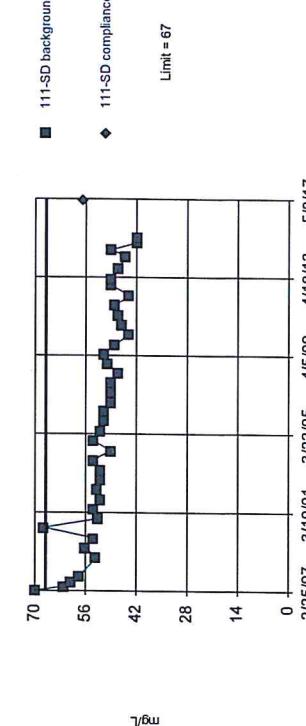
Background Data Summary (based on natural log transformation): Mean=2.323, Std. Dev.=0.1561, n=40. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9365, critical = 0.919. Kappa = 2.426 (c=34, w=4, 1 of 2, event alpha = 0.0026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data to establish suspected outliers for Dixon's/Rosner's. No background outliers were found.

Constituent: Sulfate Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Sulfate Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

Prediction Limit
Intrawell Parametric
Within Limit

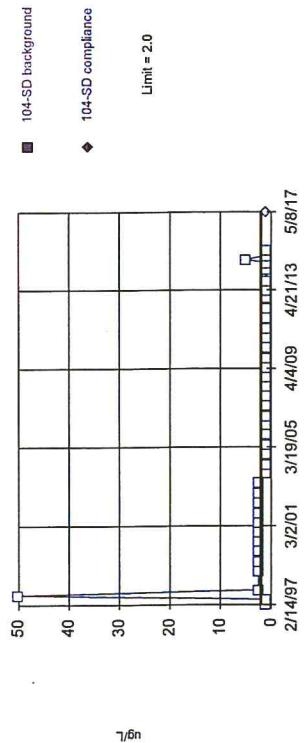


Background Data Summary (based on natural log transformation): Mean=3.932, Std. Dev.=0.1116, n=39. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9407, critical = 0.917. Kappa = 2.434 (c=34, w=4, 1 of 2, event alpha = 0.0026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: <50 (11/19/2014).

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Hollow symbols indicate censored values.
Within Limit

Santabarbara™ v.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

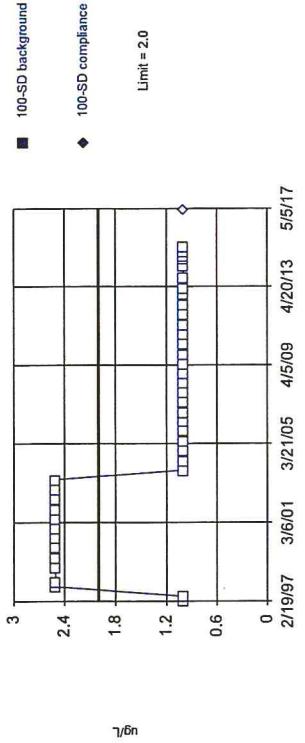


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara™ v.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

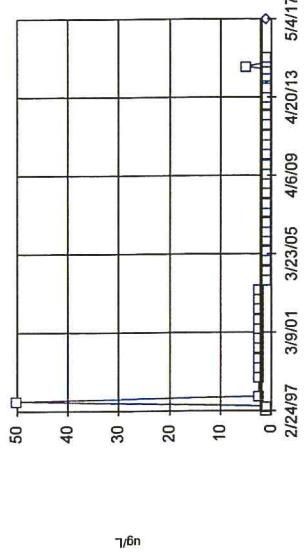
Prediction Limit
Intrawell Non-parametric



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

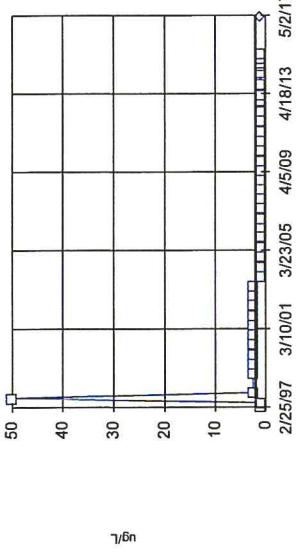


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values ($n = 40$) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Thallium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santabarbara™ v.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

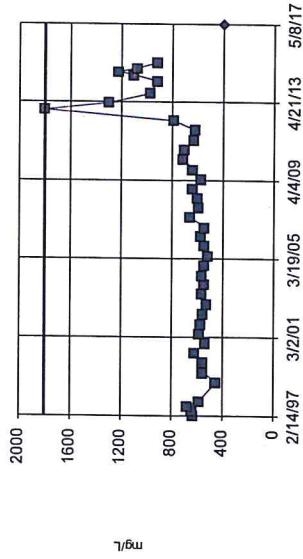
Prediction Limit
Intrawell Non-parametric



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

Constituent: Thallium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

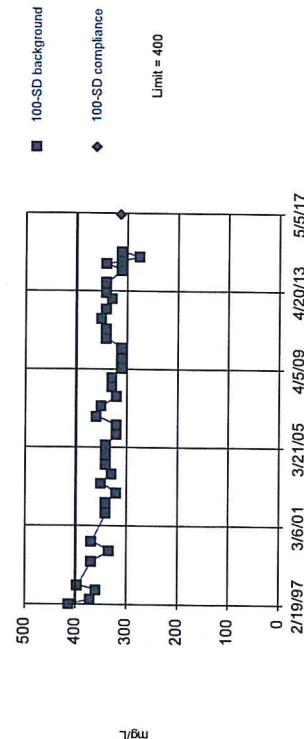
Within Limit
Prediction Limit
Intrawell Non-parametric



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

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

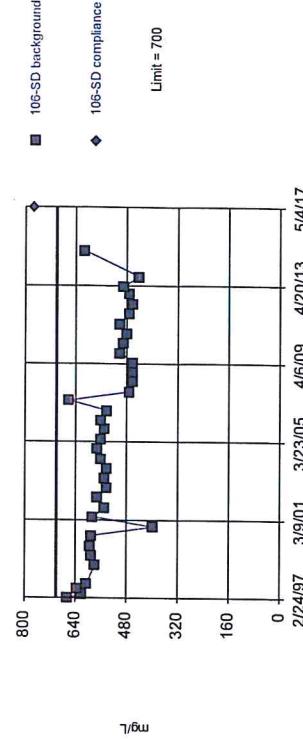
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.819, Std Dev=0.07051, n=37. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9522, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 or 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 (1/14/1998); 512 (11/13/2000); 551 (5/15/2001).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

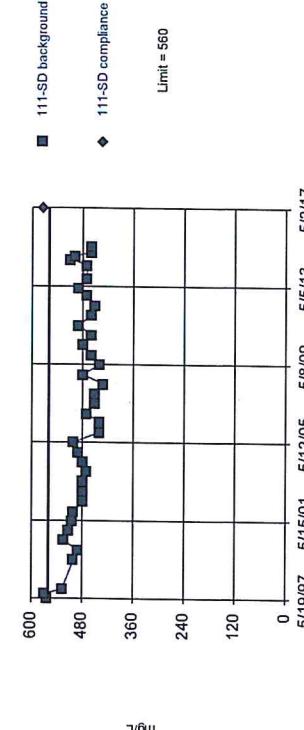
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=538.1, Std. Dev.=65.86, n=36. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9645, critical = 0.912. Kappa = 2.45 (c=34, w=4, 1 or 2, event alpha = 0.0001937. Rosner's outlier test was performed on the background data. Four background outliers were removed: 1600 (5/28/2014); 3200 (9/24/2014); 2050 (11/20/2014); 2150 (5/14/2015).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Parametric



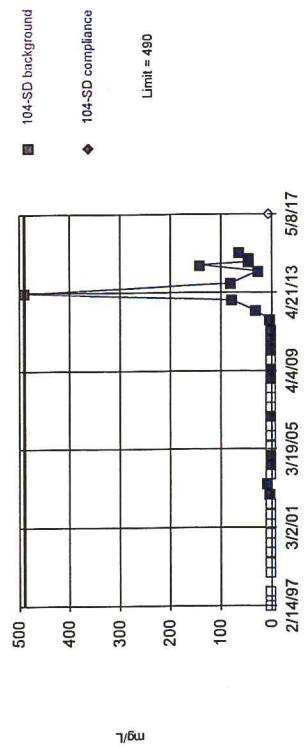
Background Data Summary (based on natural log transformation): Mean=6.175, Std Dev=0.06301, n=38. Normally test: Shapiro Wilk @alpha = 0.01, calculated = 0.9556, critical = 0.916. Kappa = 2.442 (c=34, w=4, 1 or 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. Two background outliers were removed: 340 (2/25/1997); 634 (11/12/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.
Within Limit

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

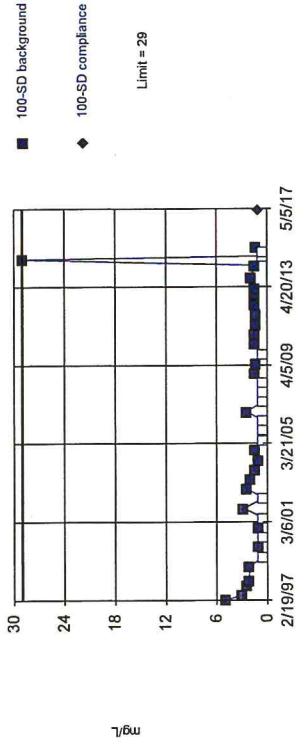
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 50% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

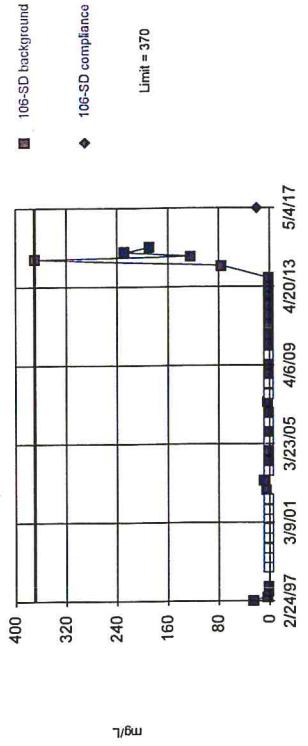
Santabar™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 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.

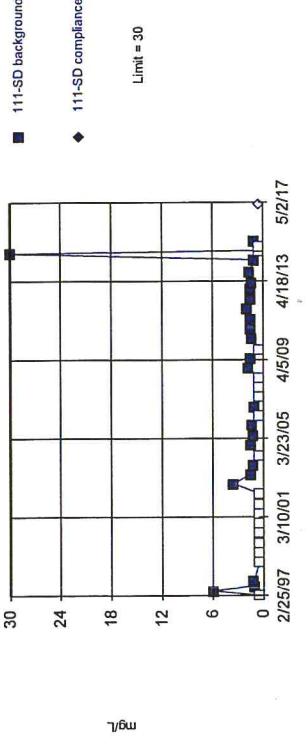
Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 35% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

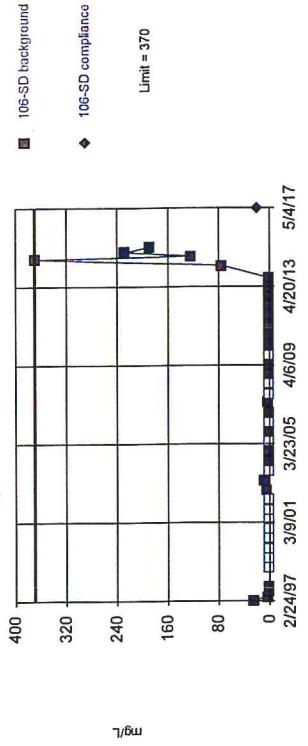
Santabar™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 40 background values. 42.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

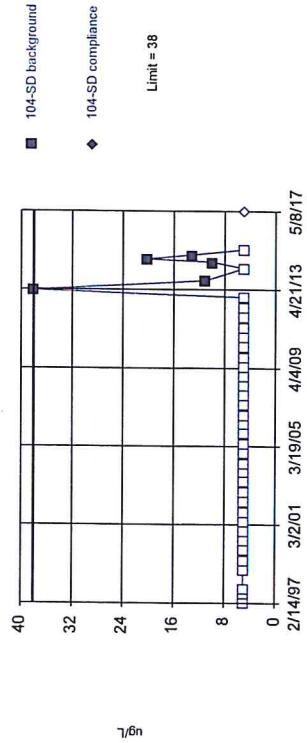
Prediction Limit
Intrawell Non-parametric
Within Limit



Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit



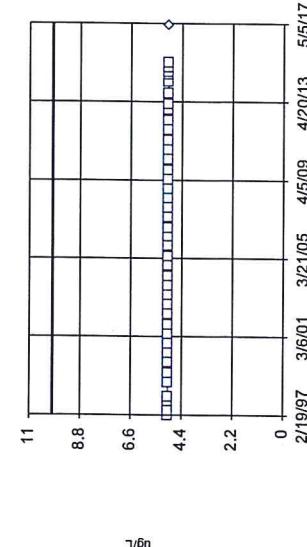
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 40 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santus™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric
Within Limit

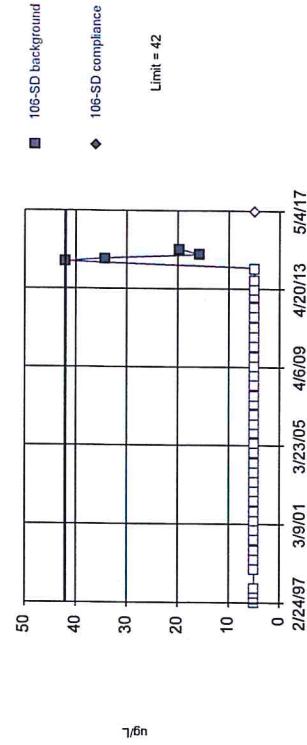


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 40) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004602. Individual comparison alpha = 0.001152 (1 of 2). After outlier removal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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

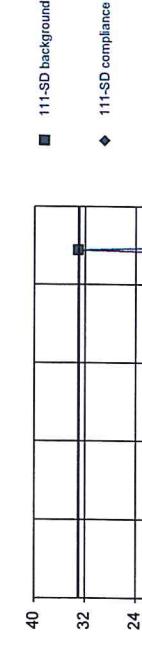
Prediction Limit
Intrawell Non-parametric
Within Limit



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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

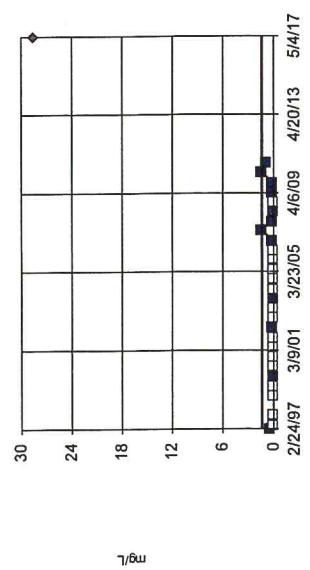
Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF



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

Constituent: Vanadium Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Prediction Limit
Intrawell Non-parametric

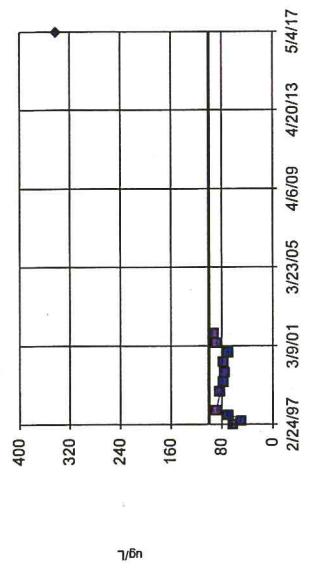


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 29 background values. 55.17% NDs. Well-constituent pair annual alpha = 0.00856. Individual comparison alpha = 0.002152 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Ammonia as N Analysis Run 7/11/2017 3:14 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Bridgeton LF Total Analysis Run 7/11/2017 3:15 PM
Client: RSI Data: Bridgeton LF

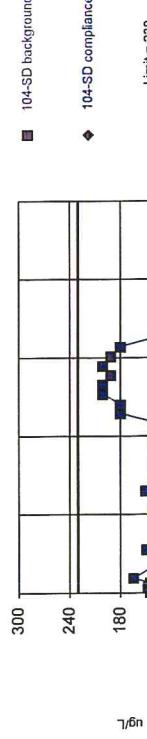
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=465934, 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, event alpha = 0.026). Report alpha = 0.0001937. Dixon's outlier test was performed on the background data. No background outliers were found.

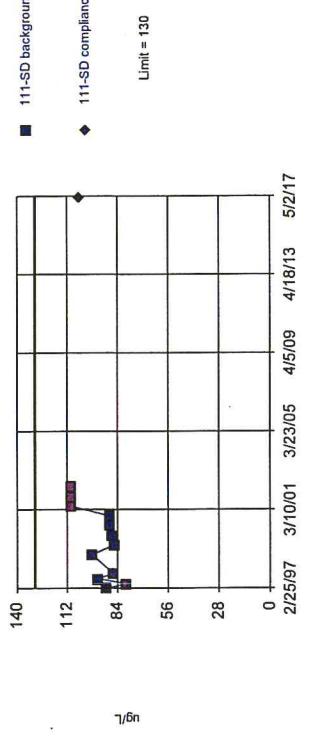
Constituent: Barium Total Analysis Run 7/11/2017 3:16 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Santistat™ v.9.5.32 Software Licensed to Jeff Environmental Consulting, UG
Bridgeton LF Total Analysis Run 7/11/2017 3:17 PM
Client: RSI Data: Bridgeton LF

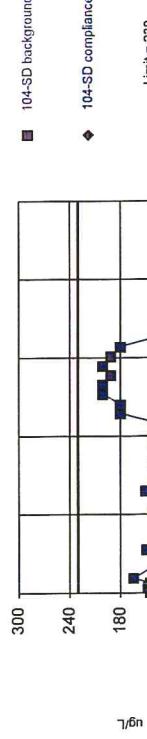


Background Data Summary (based on natural log transformation): Mean=5.011, Std. Dev.=0.17, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.896. Kappa = 2.54 (c=34, w=4, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Prediction Limit
Intrawell Parametric

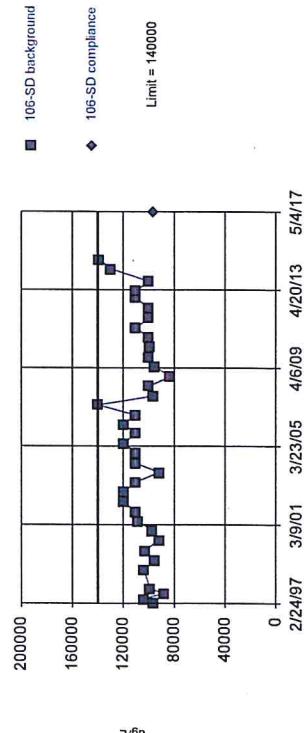


Background Data Summary (based on natural log transformation): Mean=4.538, Std. Dev.=0.1113, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.8756, critical = 0.859. Kappa = 3.188 (c=34, w=4, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.



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Within Limit

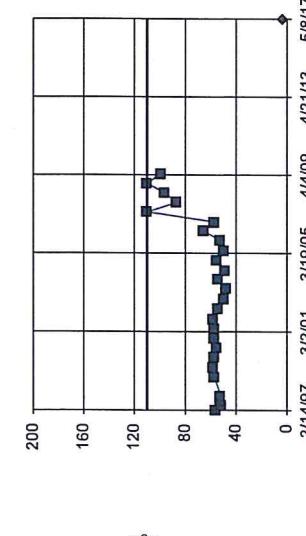
Prediction Limit
Intrawell Parametric



Constituent: Calcium Total Analysis Run 7/11/2017 3:52 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

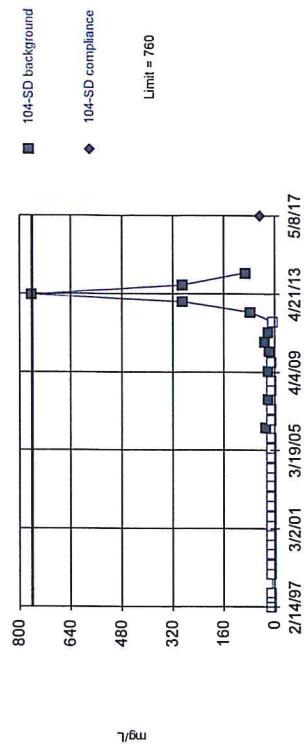
Prediction Limit
Intrawell Non-parametric



Constituent: Chloride Analysis Run 7/11/2017 3:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

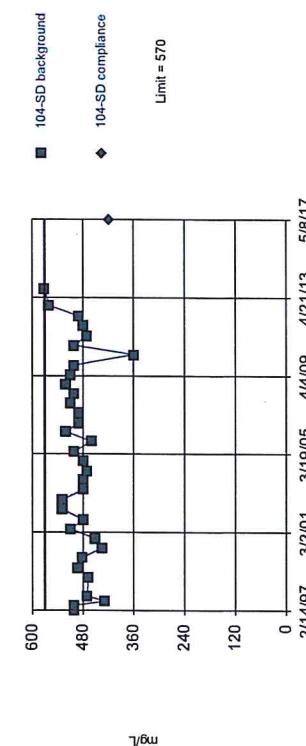
Prediction Limit
Intrawell Non-parametric



Constituent: Chemical Oxygen Demand [COD] Analysis Run 7/11/2017 3:53 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

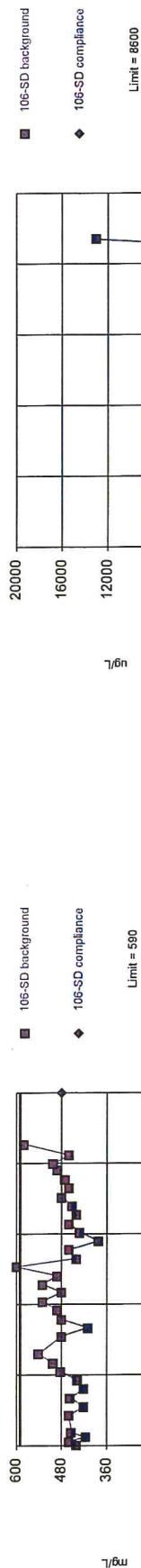
Santist™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Within Limit

Prediction Limit
Intrawell Parametric



Constituent: Hardness Total Analysis Run 7/11/2017 3:54 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

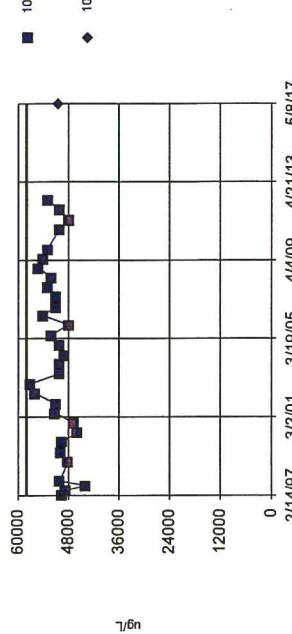
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=36.99, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. 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: 180 (11/19/2002), 1300 (9/24/2014).

Constituent: Hardness Total Analysis Run 7/11/2017 3:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

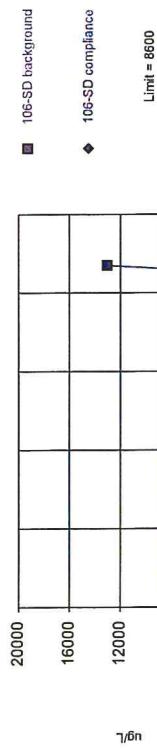
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=36.99, Std. Dev.=0.6987, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9671, critical = 0.91. 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: 180 (11/19/2002), 1300 (9/24/2014).

Constituent: Magnesium Total Analysis Run 7/11/2017 3:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

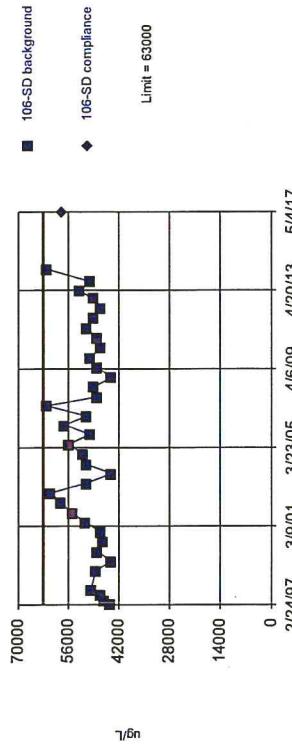
Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=11.73, Std. Dev.=3.576, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9382, critical = 0.914. Kappa = 2.45 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Iron Total Analysis Run 7/11/2017 3:55 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.82, Std. Dev.=0.9234, 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).

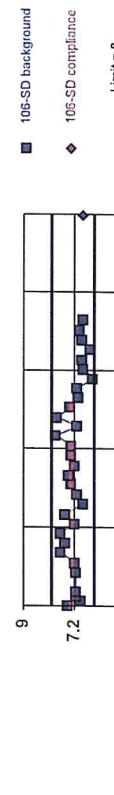
Constituent: Magnesium Total Analysis Run 7/11/2017 3:56 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limits
Prediction Limit
Intrawell Parametric



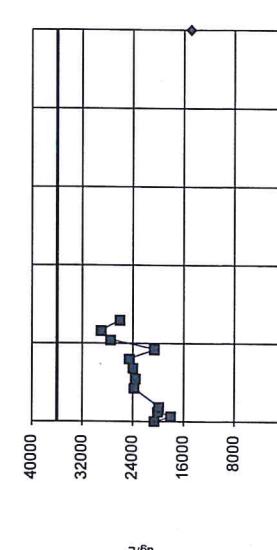
Background Data Summary (based on square transformation): Mean=5.3, Std. Dev.=5.7, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9706, critical = 0.908. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Within Limits
Prediction Limit
Intrawell Parametric



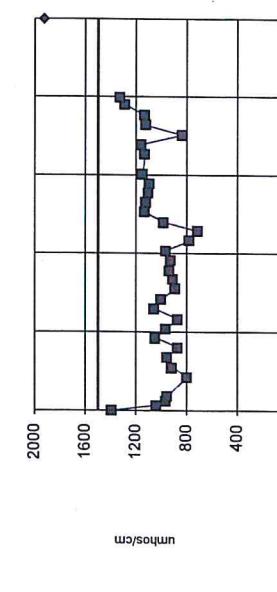
Background Data Summary (based on natural log transformation): Mean=1.973, Std. Dev.=0.04295, n=31. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9748, critical = 0.902. Kappa = 2.504 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Within Limit
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=10.04, Std. Dev.=0.1454, n=12. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9547, critical = 0.9837. 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.

Within Limits
Prediction Limit
Exceeds Limit
Intrawell Parametric

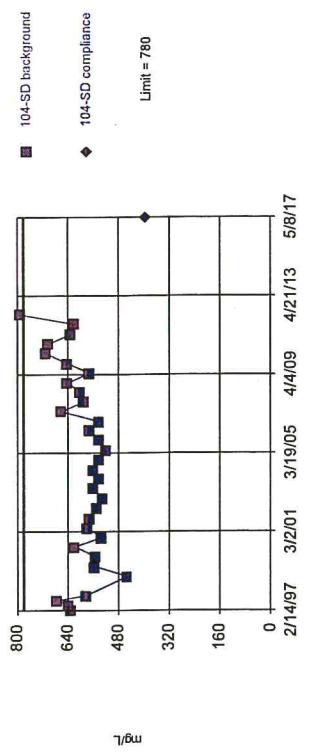


Background Data Summary (based on natural log transformation): Mean=6.911, Std. Dev.=0.1526, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9837, critical = 0.906. Kappa = 4.485 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 130.2 (1/4/2009).

Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 3:57 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Constituent: pH [Field] Analysis Run 7/11/2017 3:57 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Intrawell Parametric
Prediction Limit

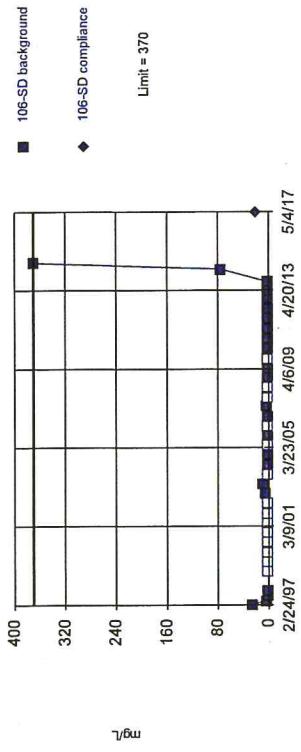


Background Data Summary (based on natural log transformation): Mean=6.38, Std. Dev.=0.11, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9651, critical = 0.904. Kappa = 2.94 (c=34, w=4, 1 of 2, event alpha = 0.026). Report alpha = 0.0001937. Rosner's outlier test was performed on the background data. One background outlier was removed: 1800 (11/27/2012).

Constituent: Total Dissolved Solids [TDS] Analysis Run 7/11/2017 3:58 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

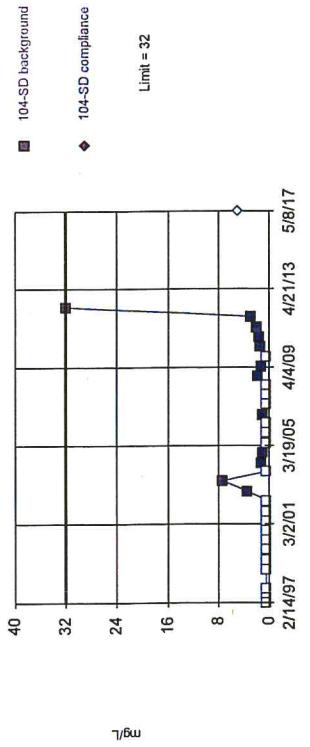
Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 3:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Intrawell Non-parametric
Prediction Limit



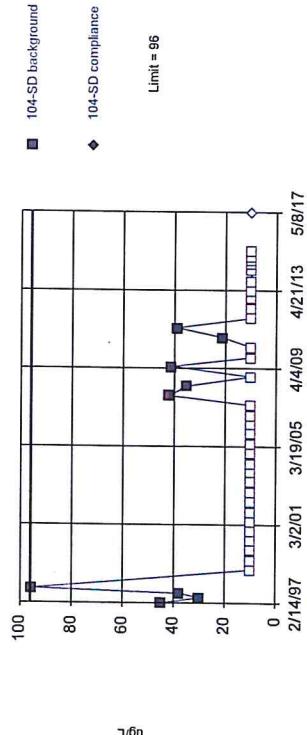
Constituent: Total Organic Carbon [TOC] Analysis Run 7/11/2017 3:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Within Limit
Intrawell Non-parametric
Prediction Limit



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

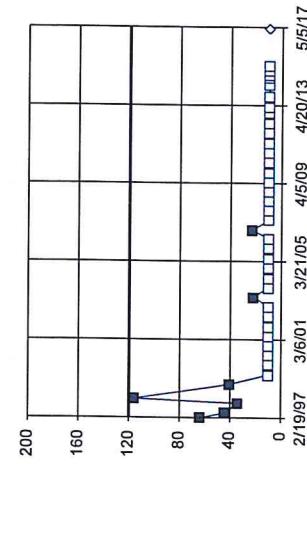
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Zinc Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

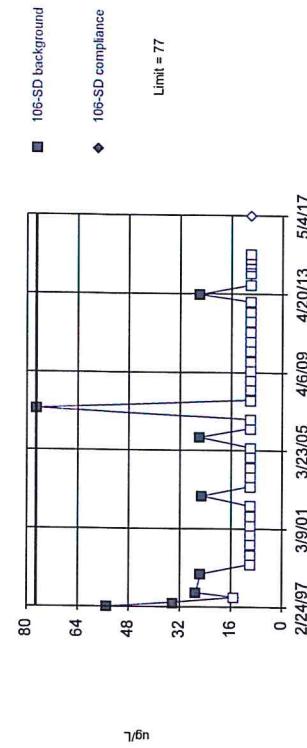
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Zinc Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

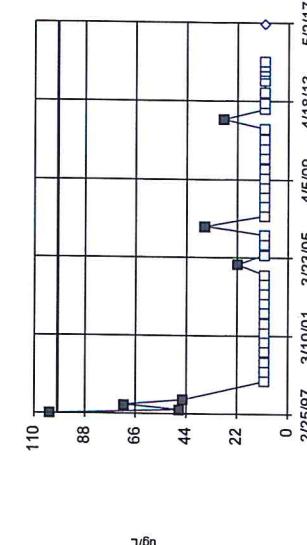
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Zinc Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

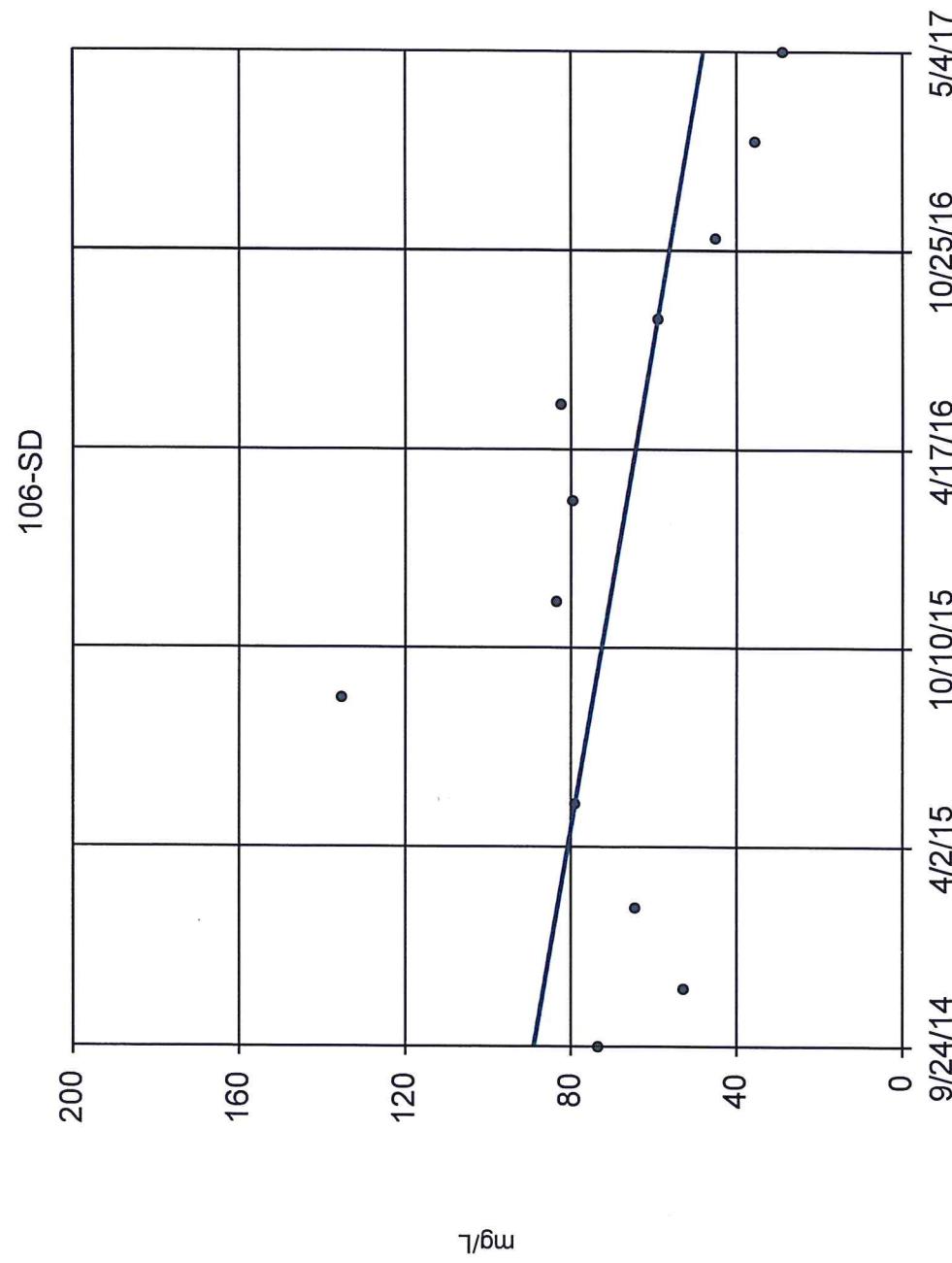
Prediction Limit
Intrawell Non-parametric
Within Limit



Constituent: Zinc Total Analysis Run 7/11/2017 2:59 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

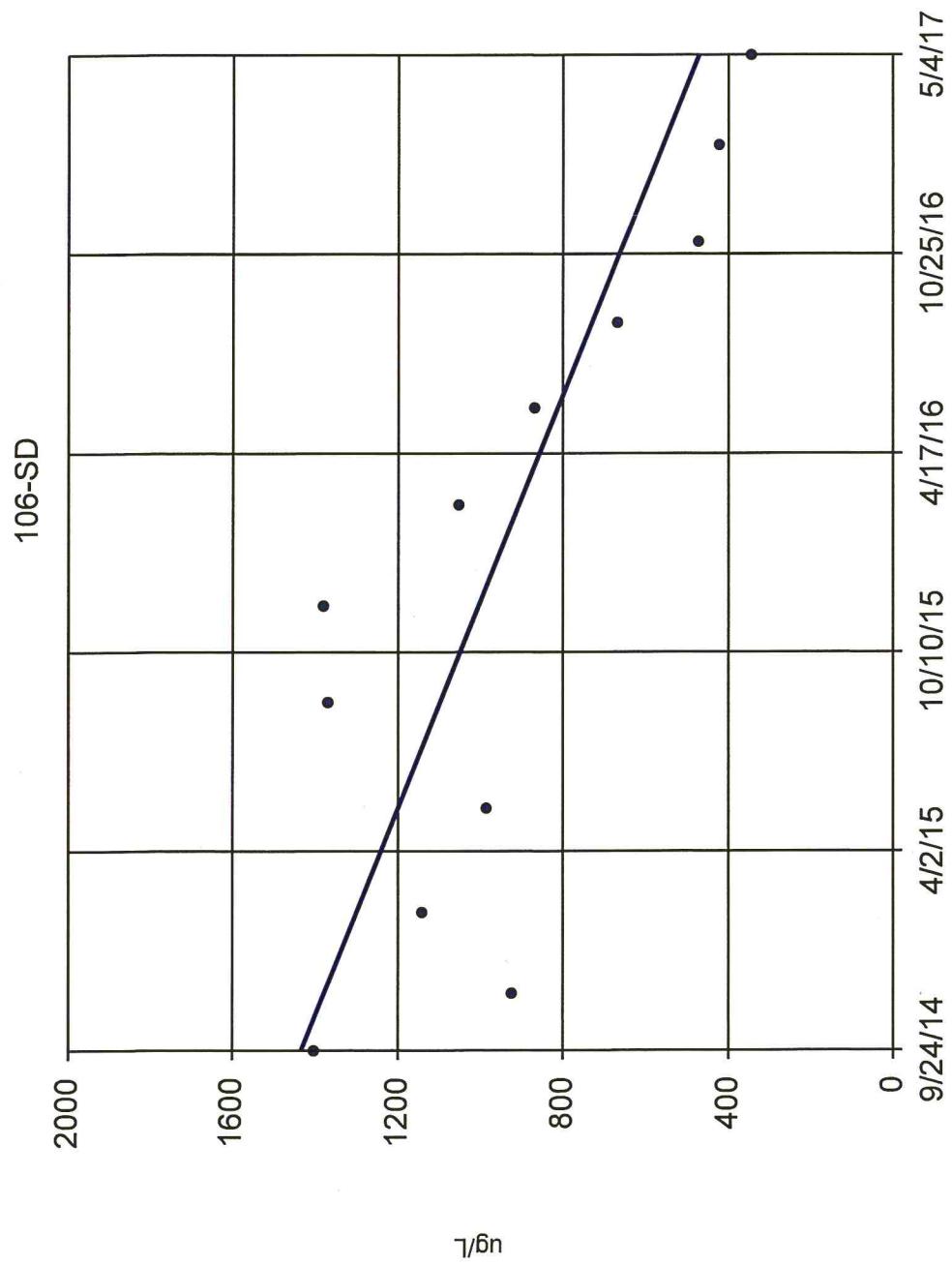
**TREND EVALUATION OF
EXCEEDING CONSTITUENTS**

Sen's Slope Estimator



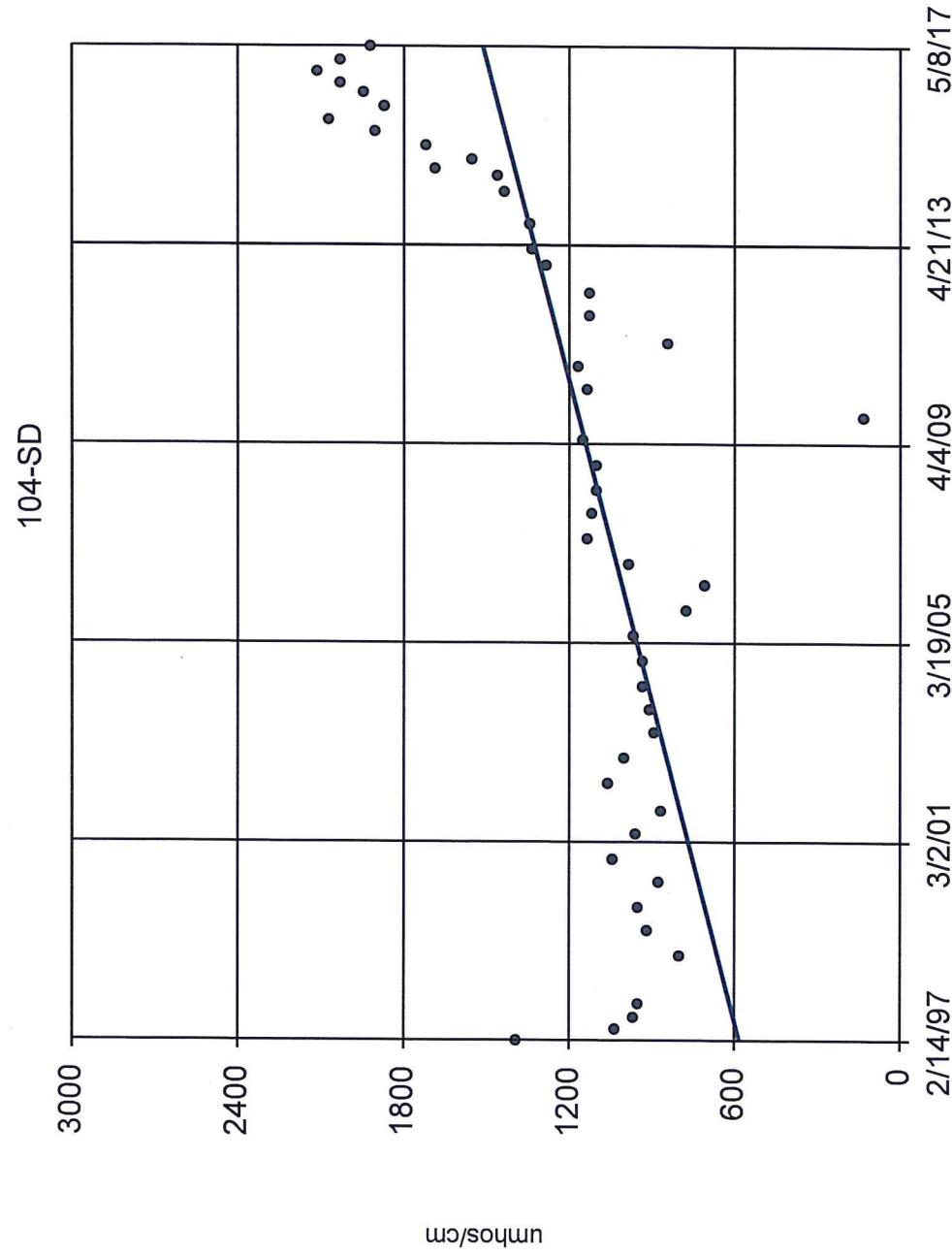
Constituent: Ammonia as N Analysis Run 7/11/2017 11:42 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator



Constituent: Barium Total Analysis Run 7/11/2017 11:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

Sen's Slope Estimator

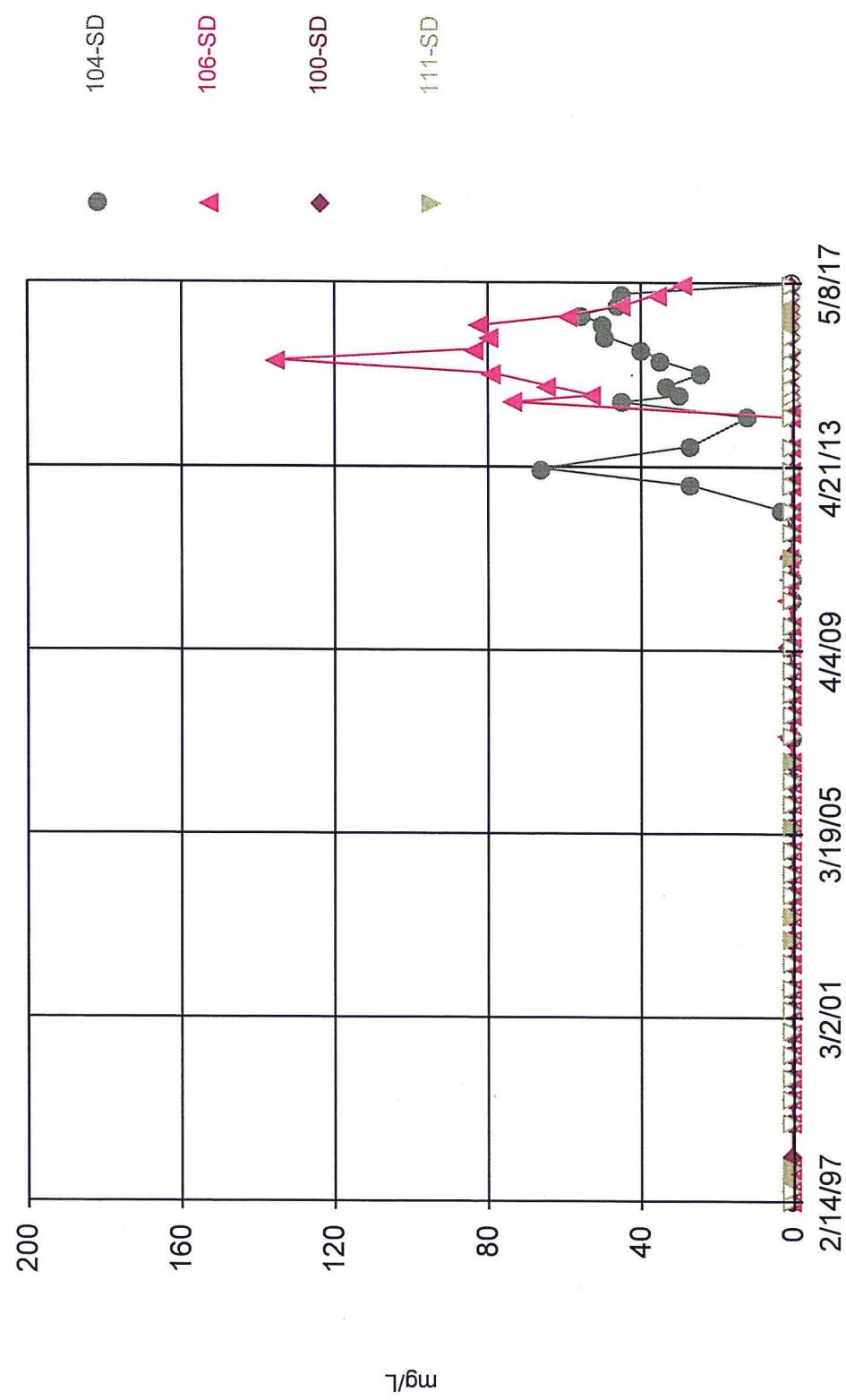


Constituent: Specific Conductance [Field] Analysis Run 7/11/2017 11:43 PM
Bridgeton LF Client: RSI Data: Bridgeton LF

TIME SERIES GRAPHS

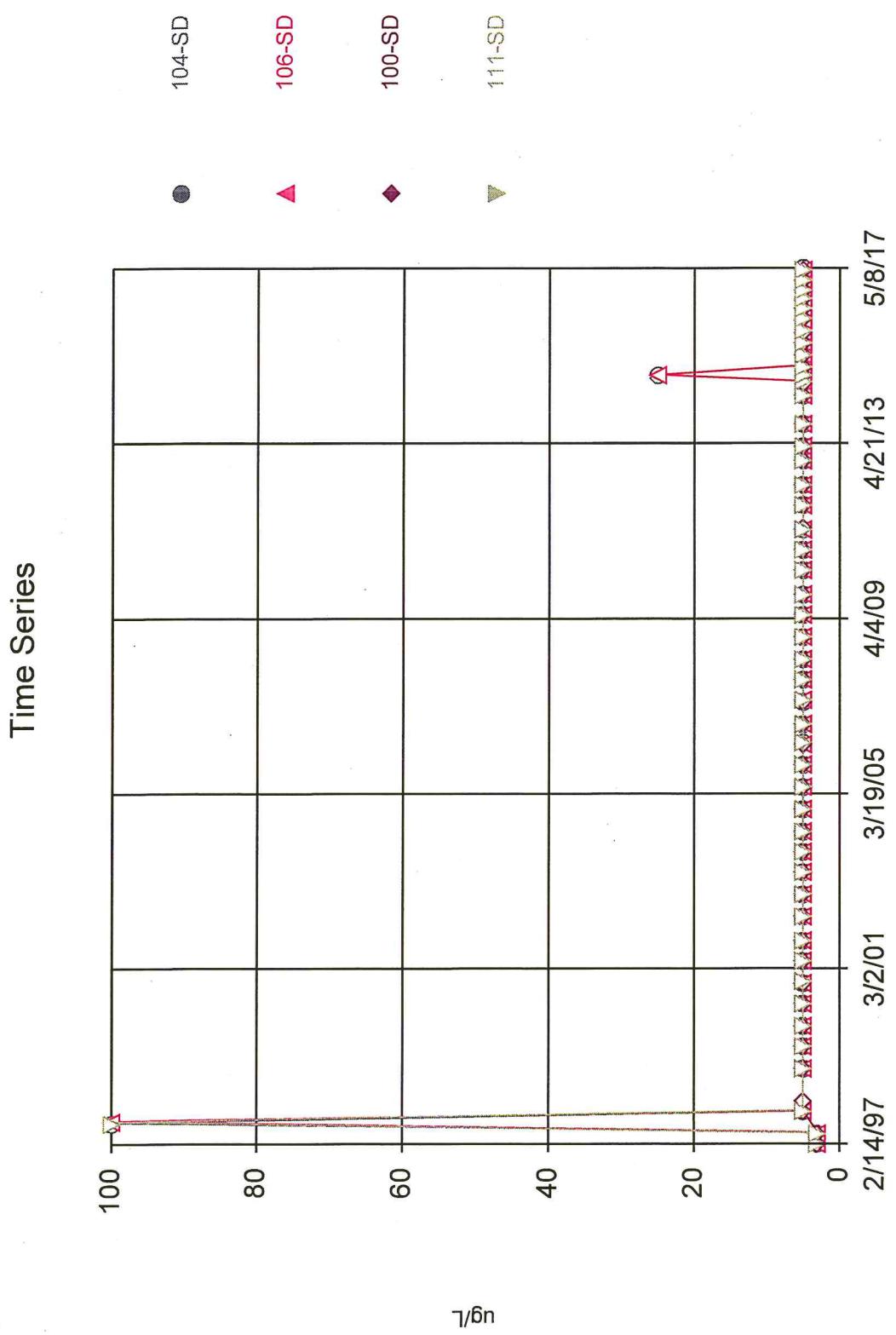
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



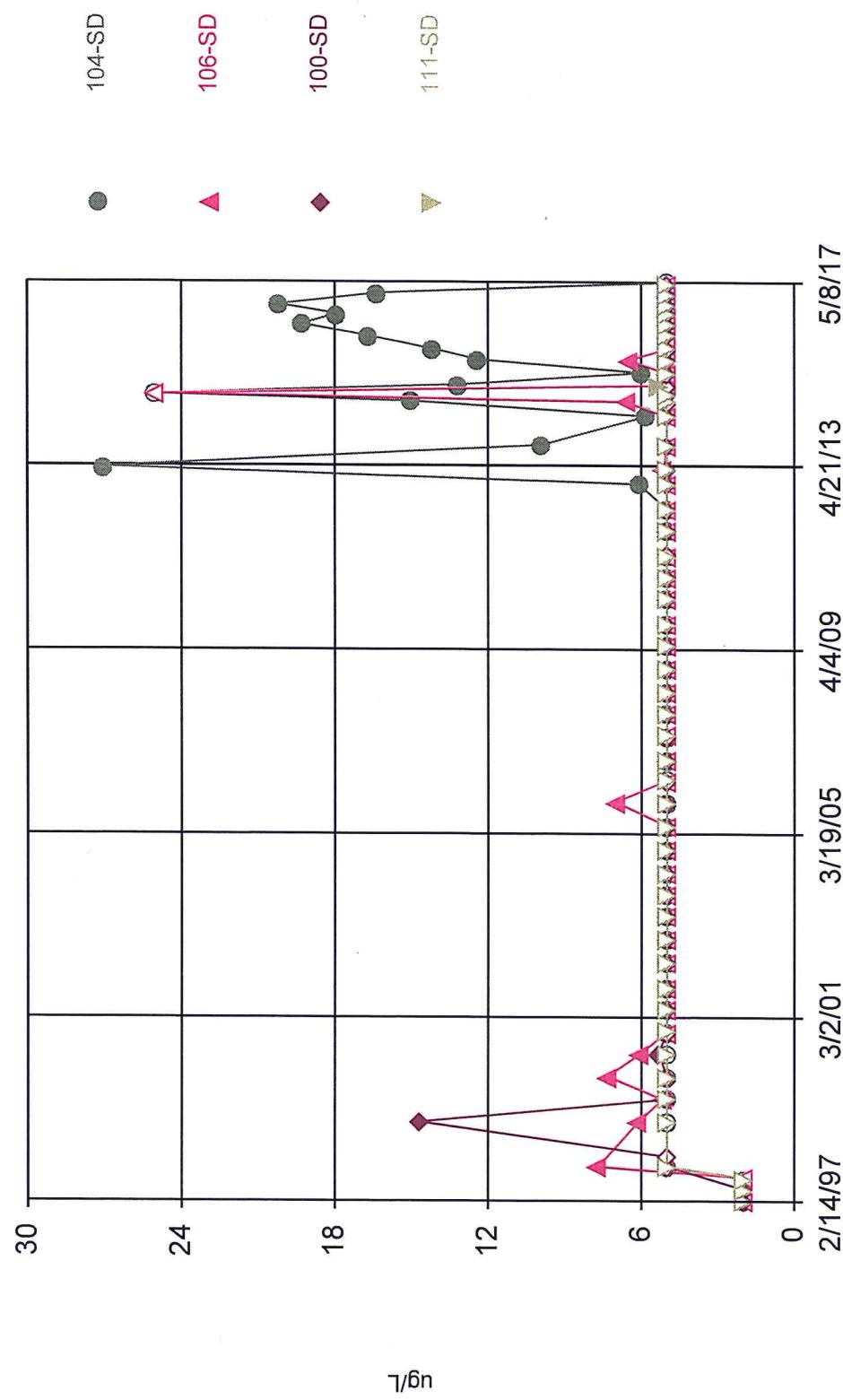
Constituent: Ammonia as N Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

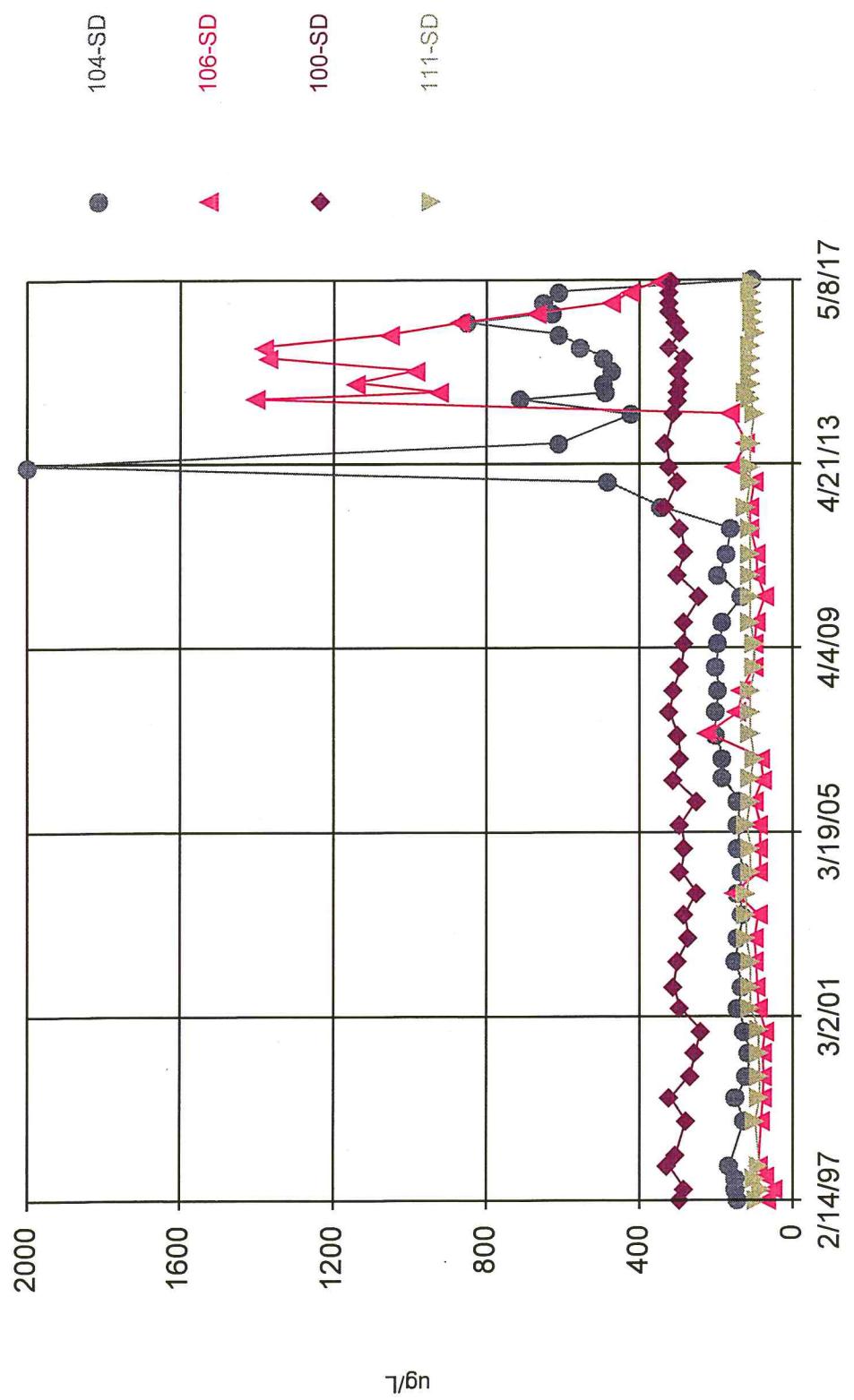


Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series

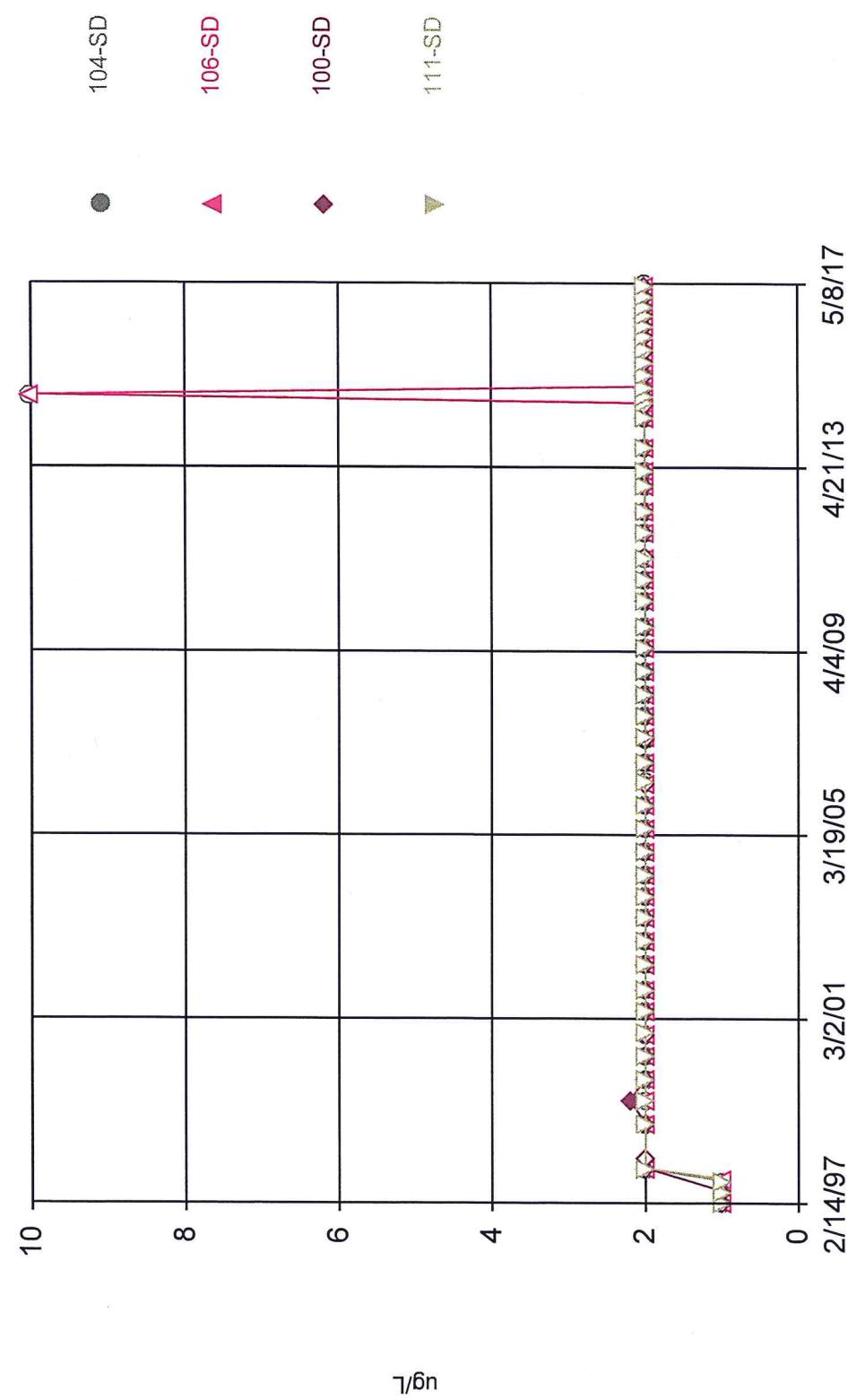


Time Series



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

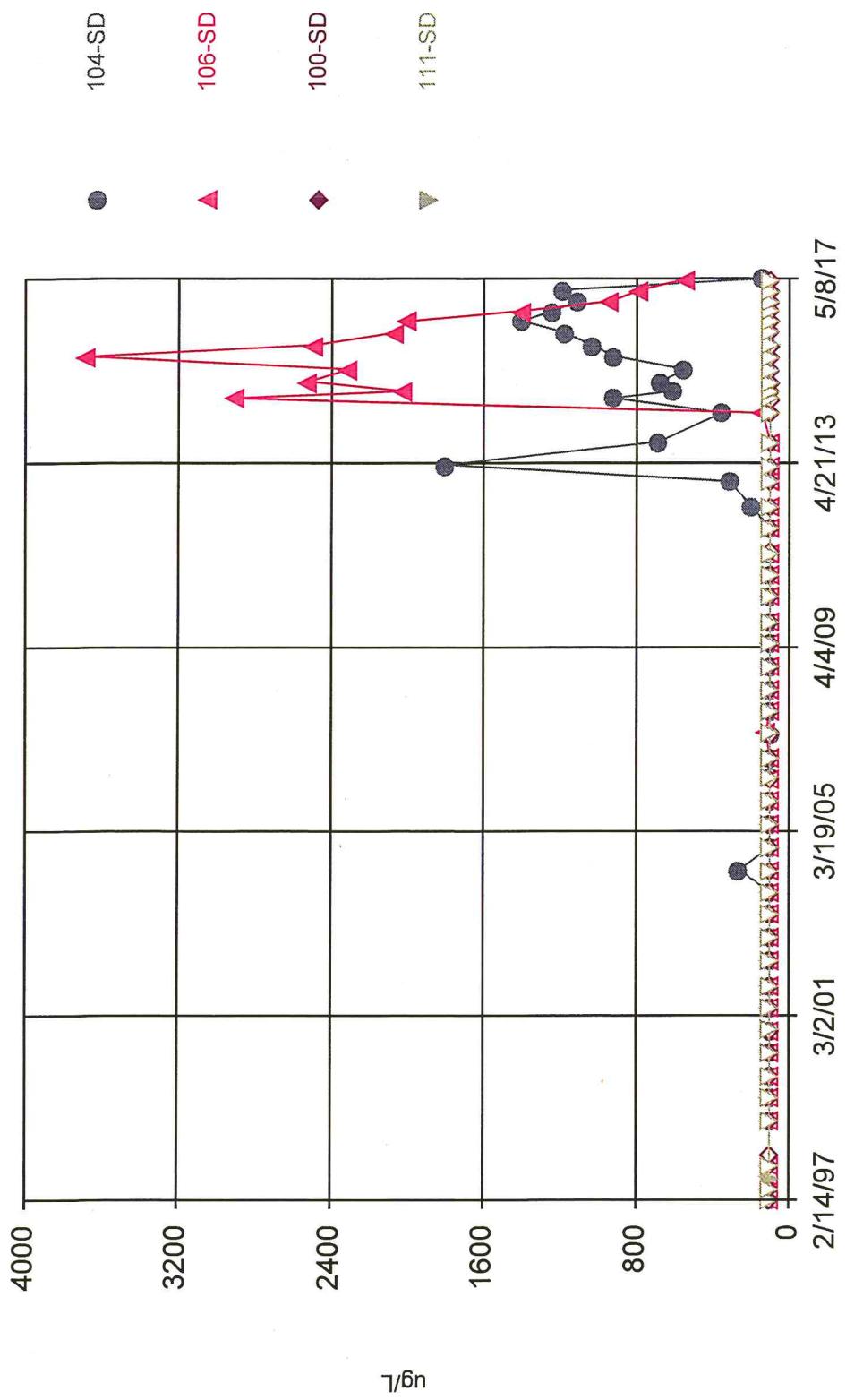
Time Series



Constituent: Beryllium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

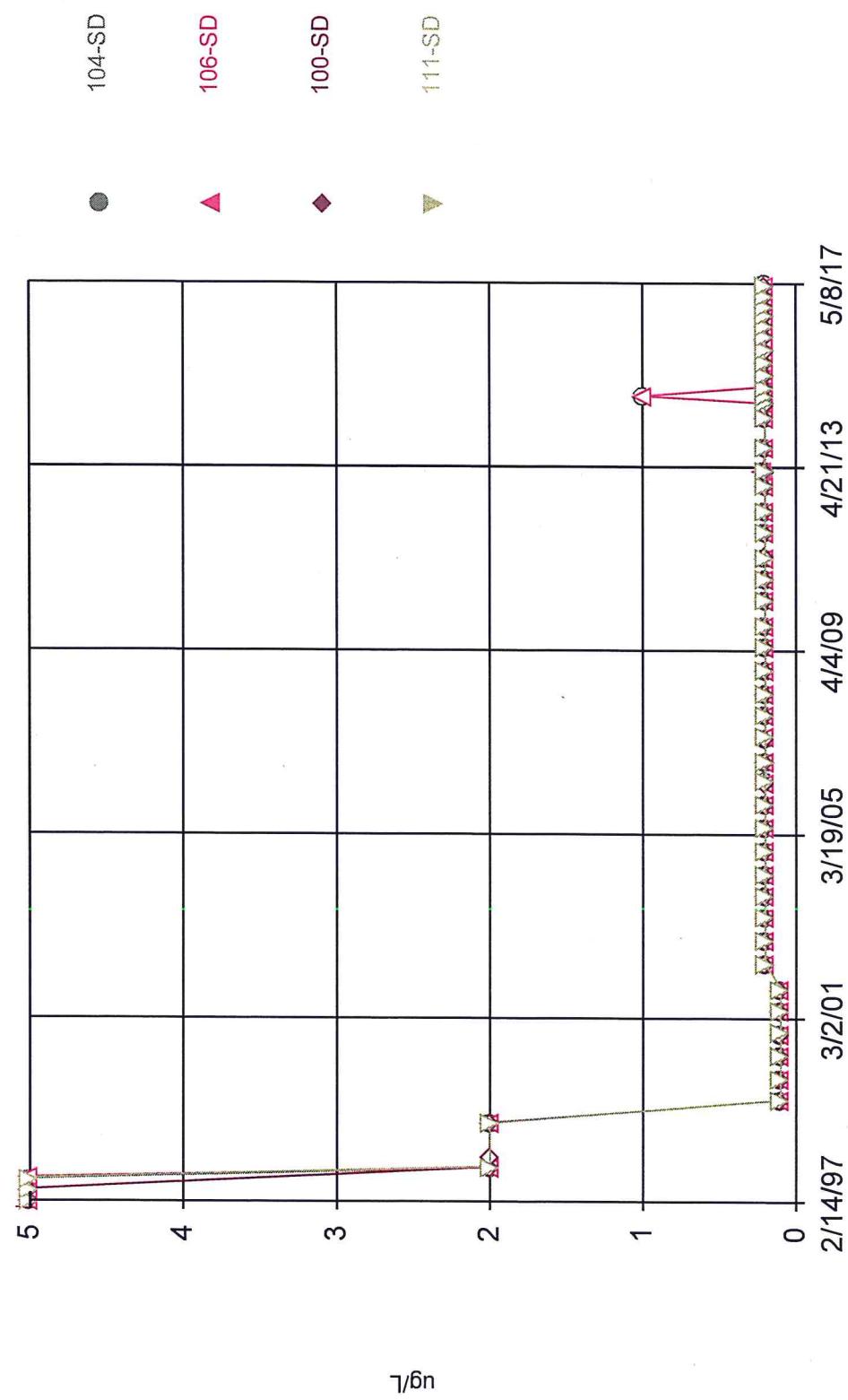
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



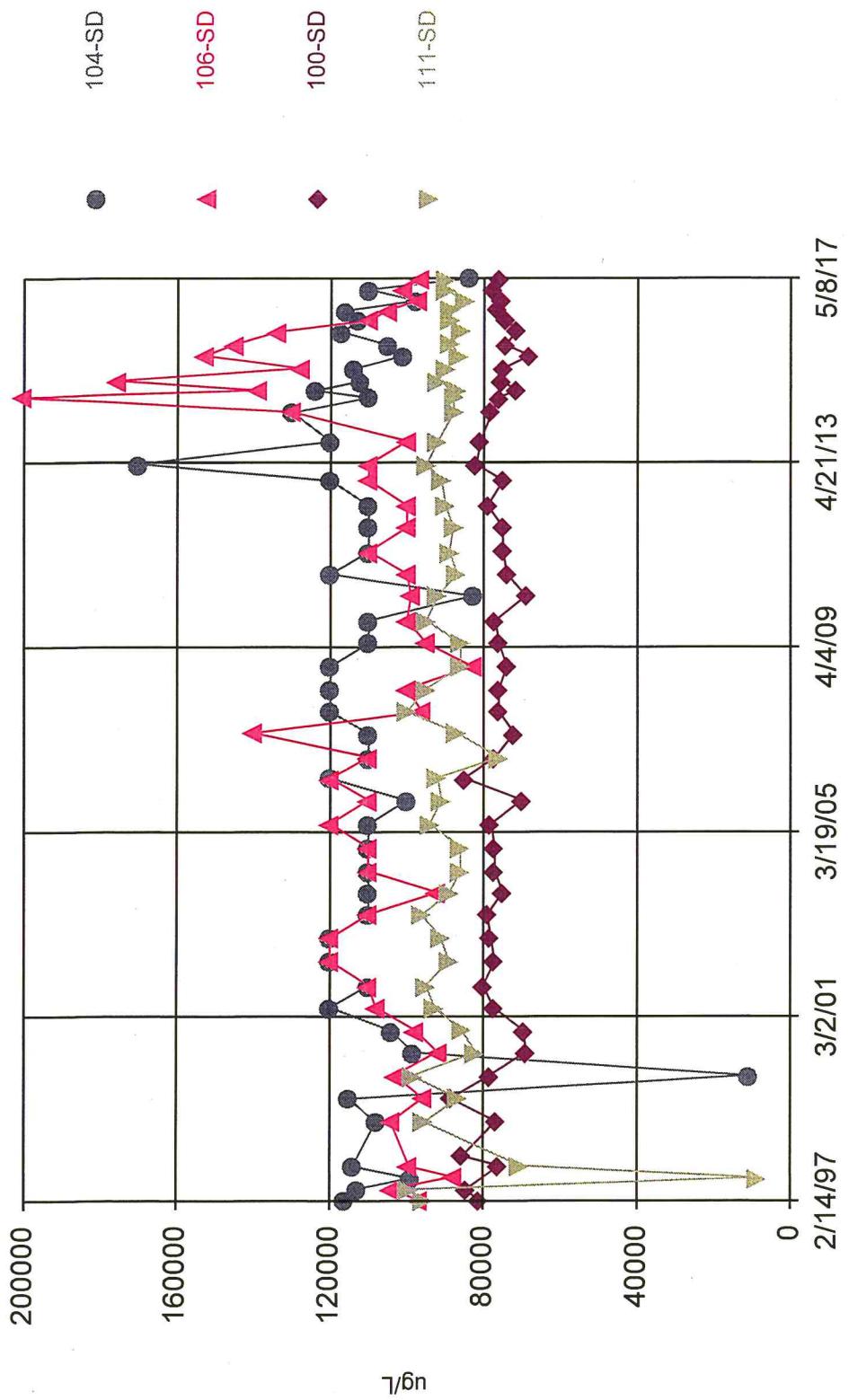
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

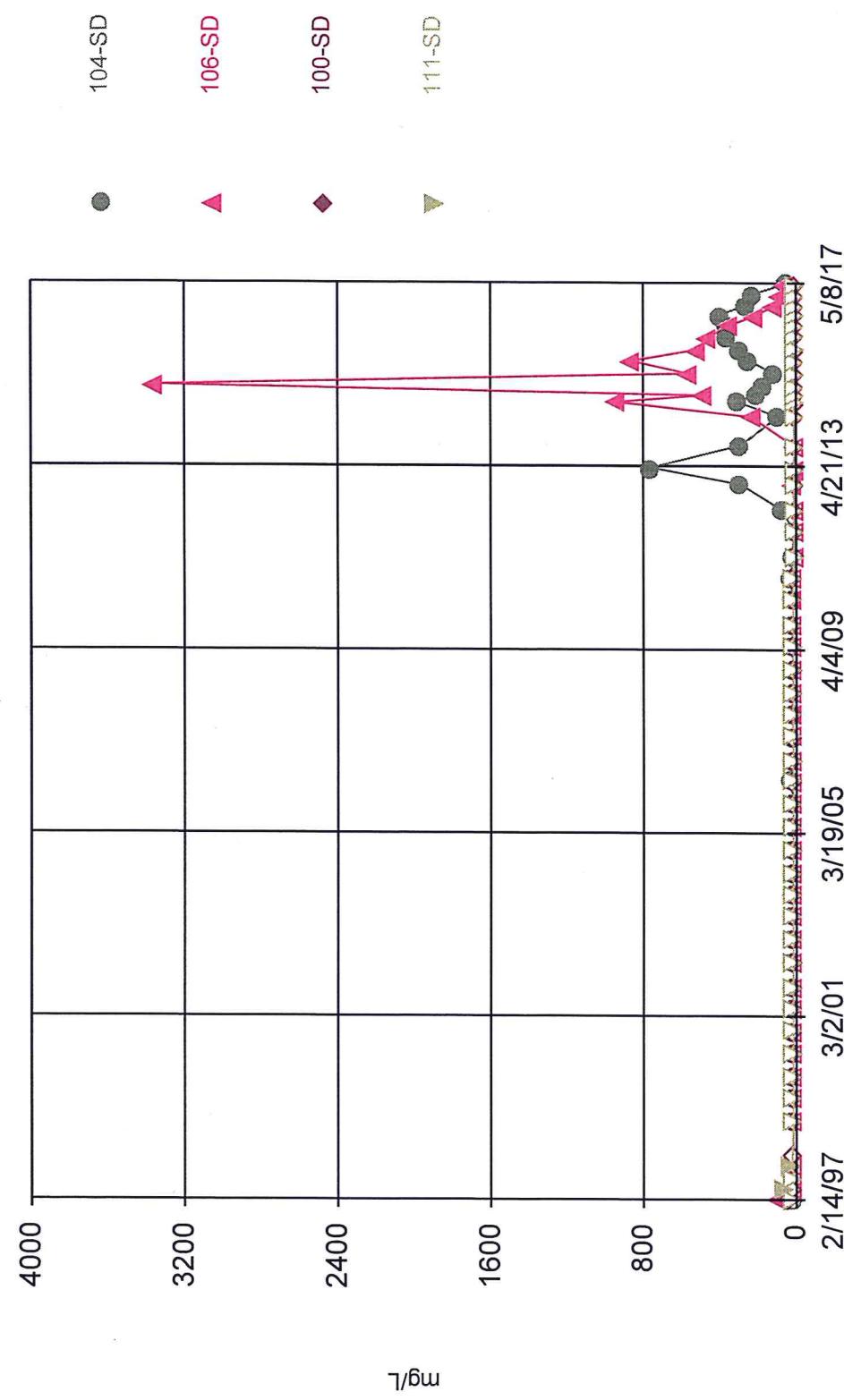
Time Series



Constituent: Calcium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

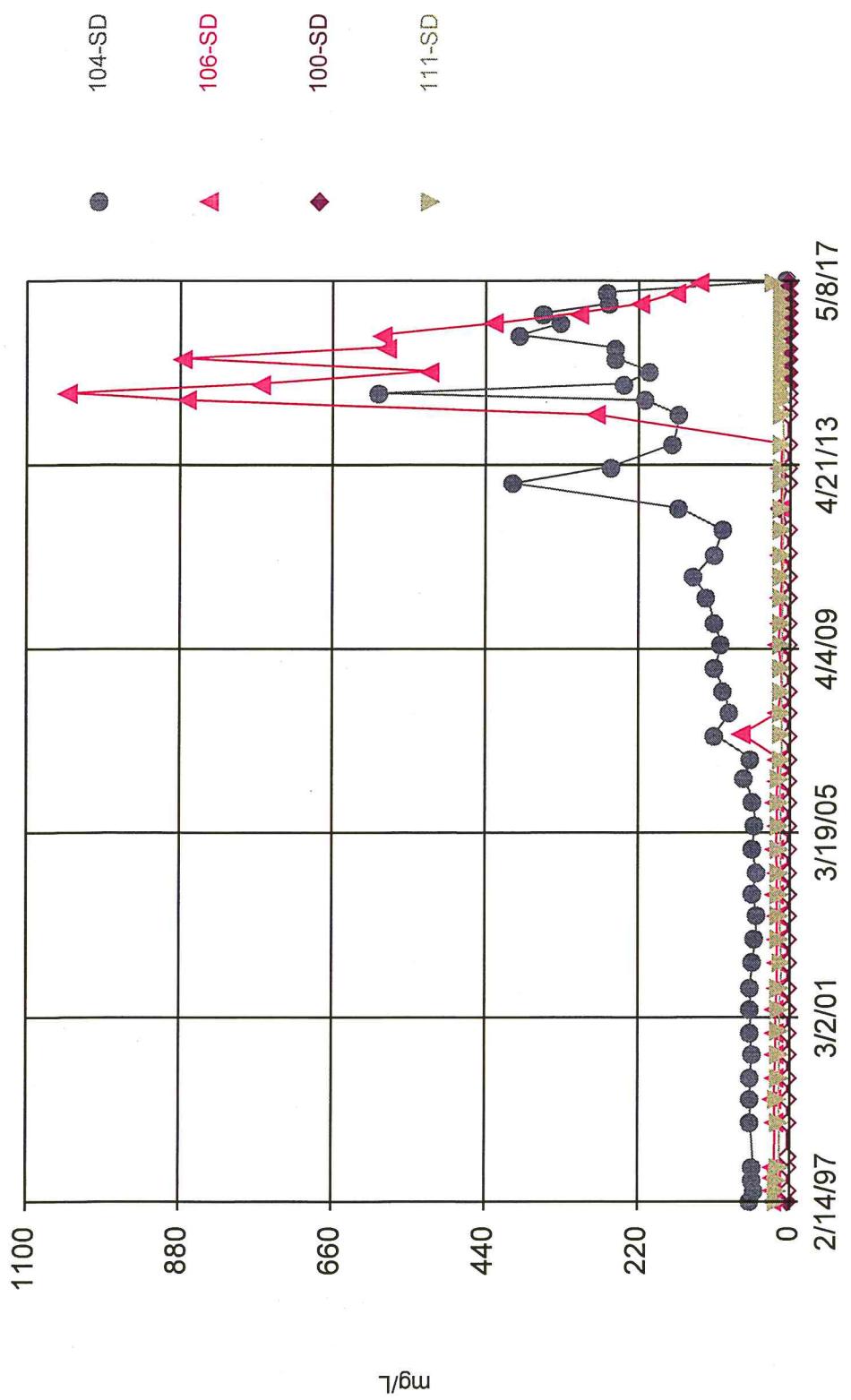
Time Series



Constituent: Chemical Oxygen Demand [COD] Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

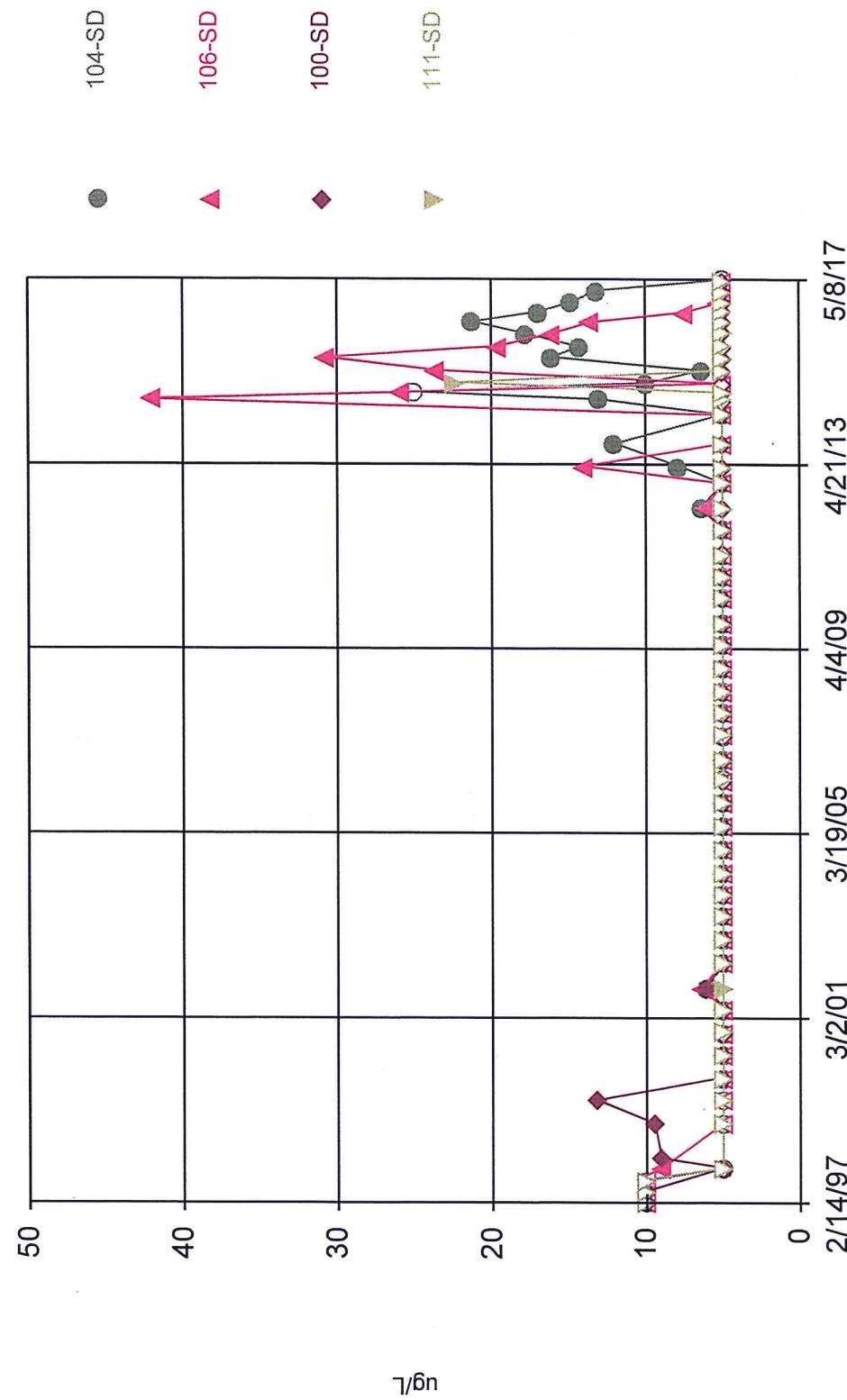
Time Series



Constituent: Chloride Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

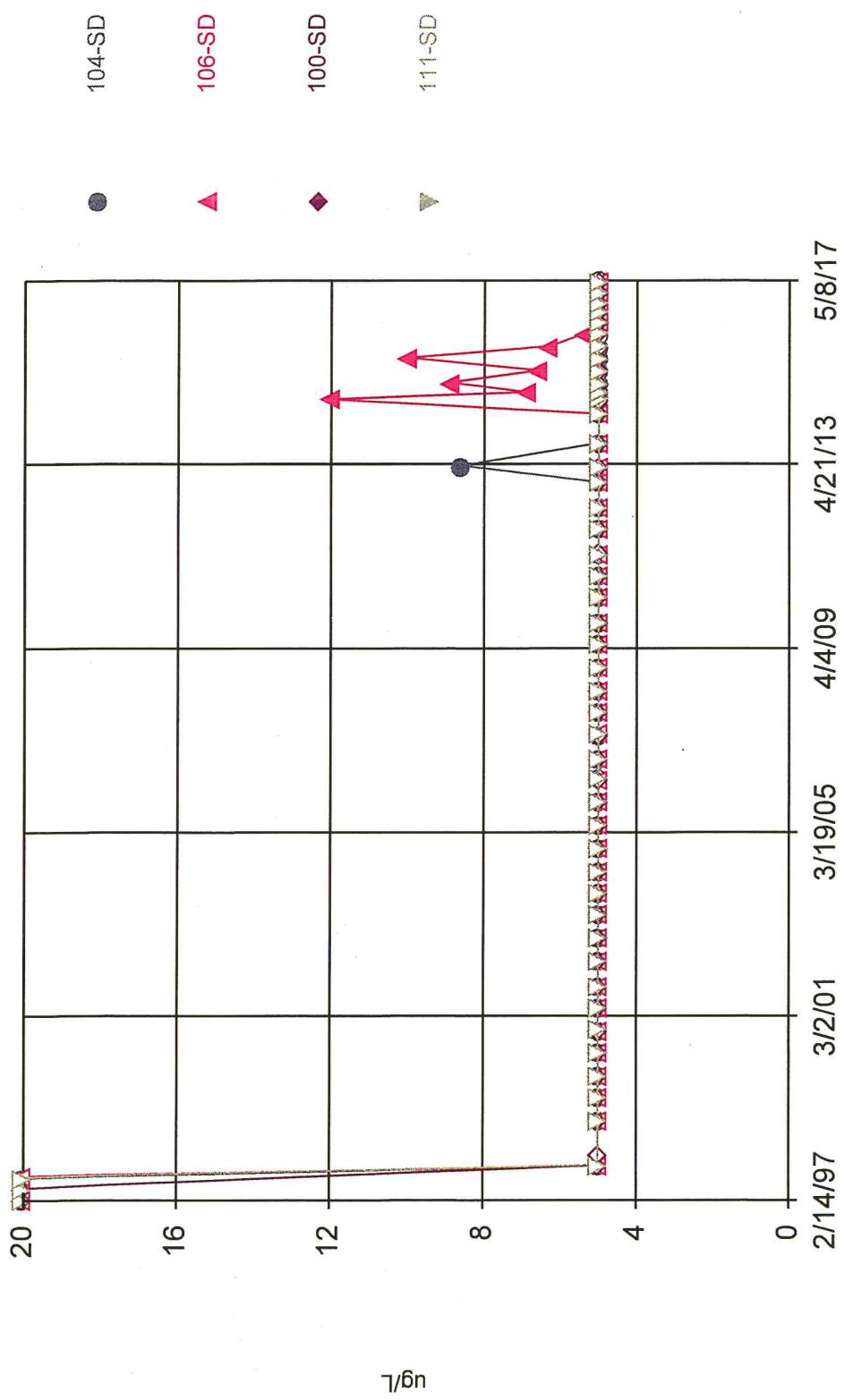
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



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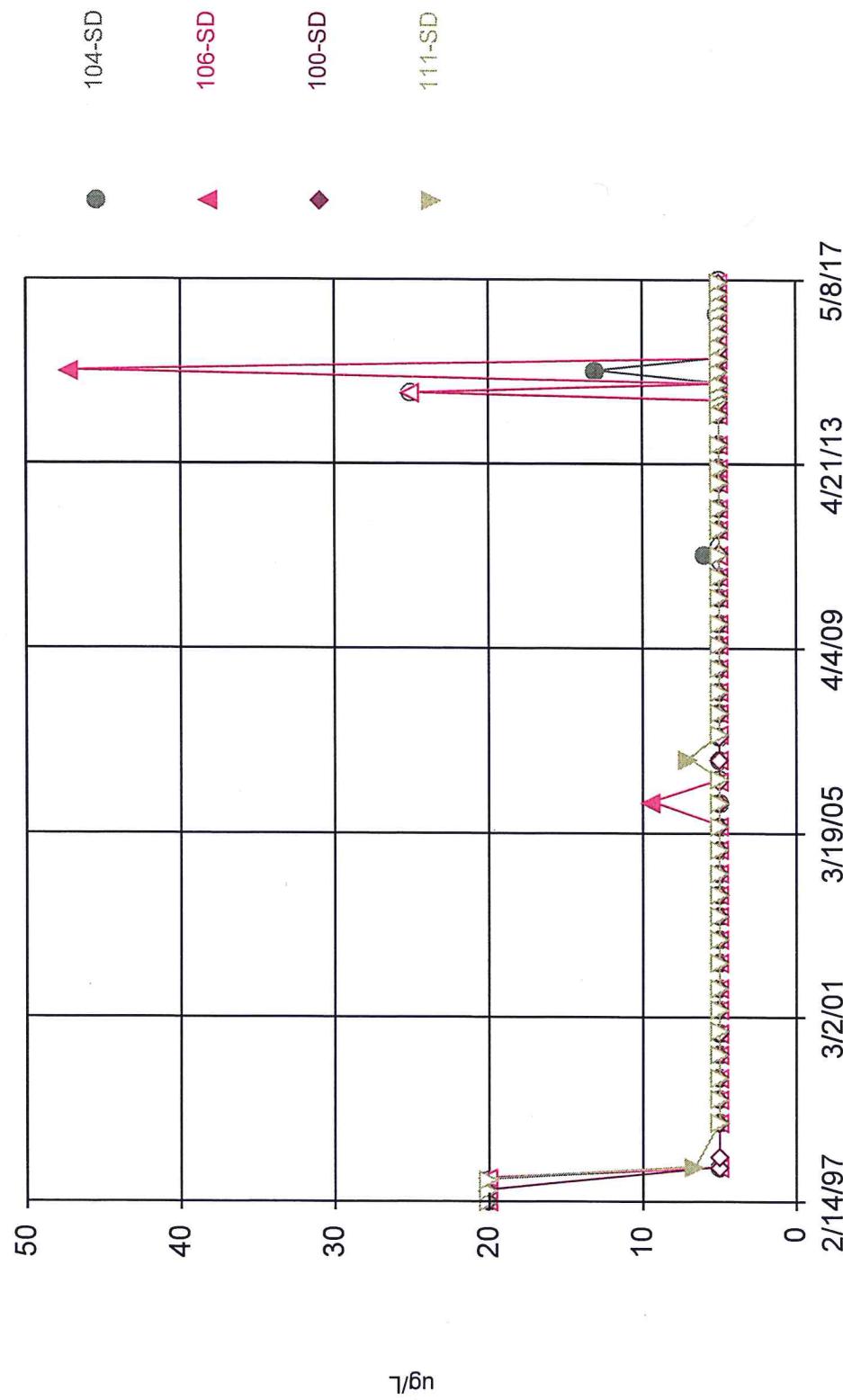
Time Series



Constituent: Cobalt Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

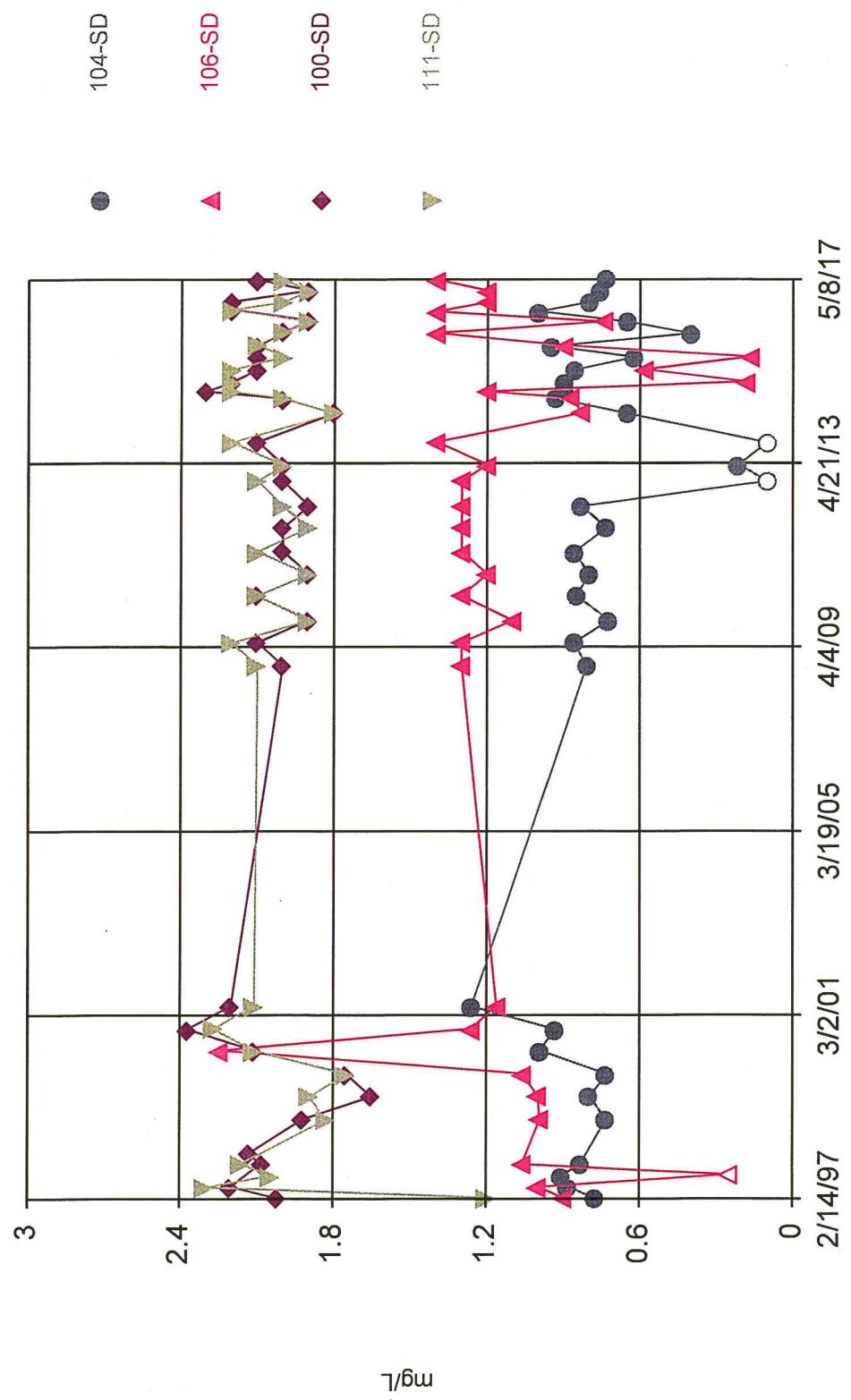
Time Series



Constituent: Copper Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

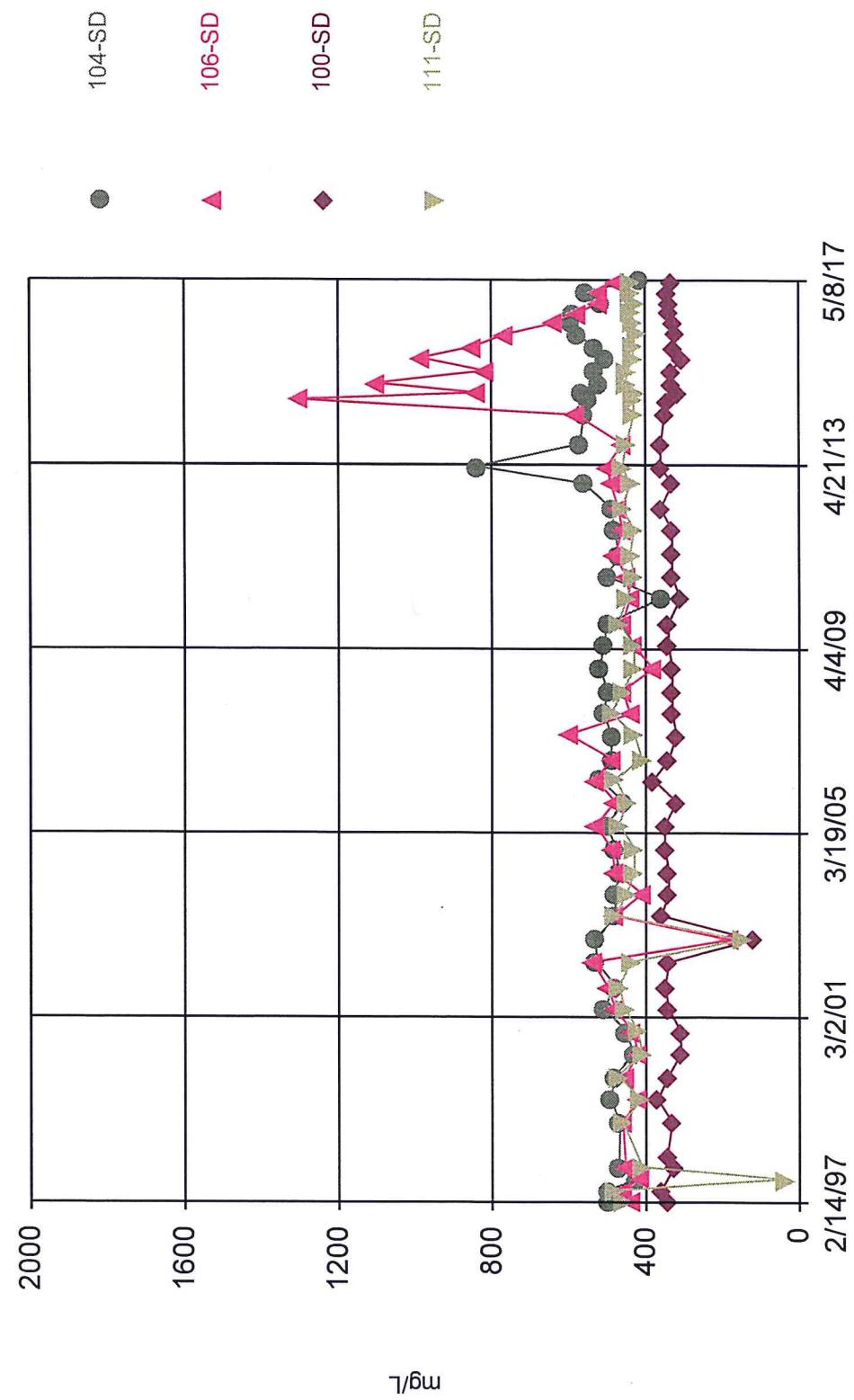
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

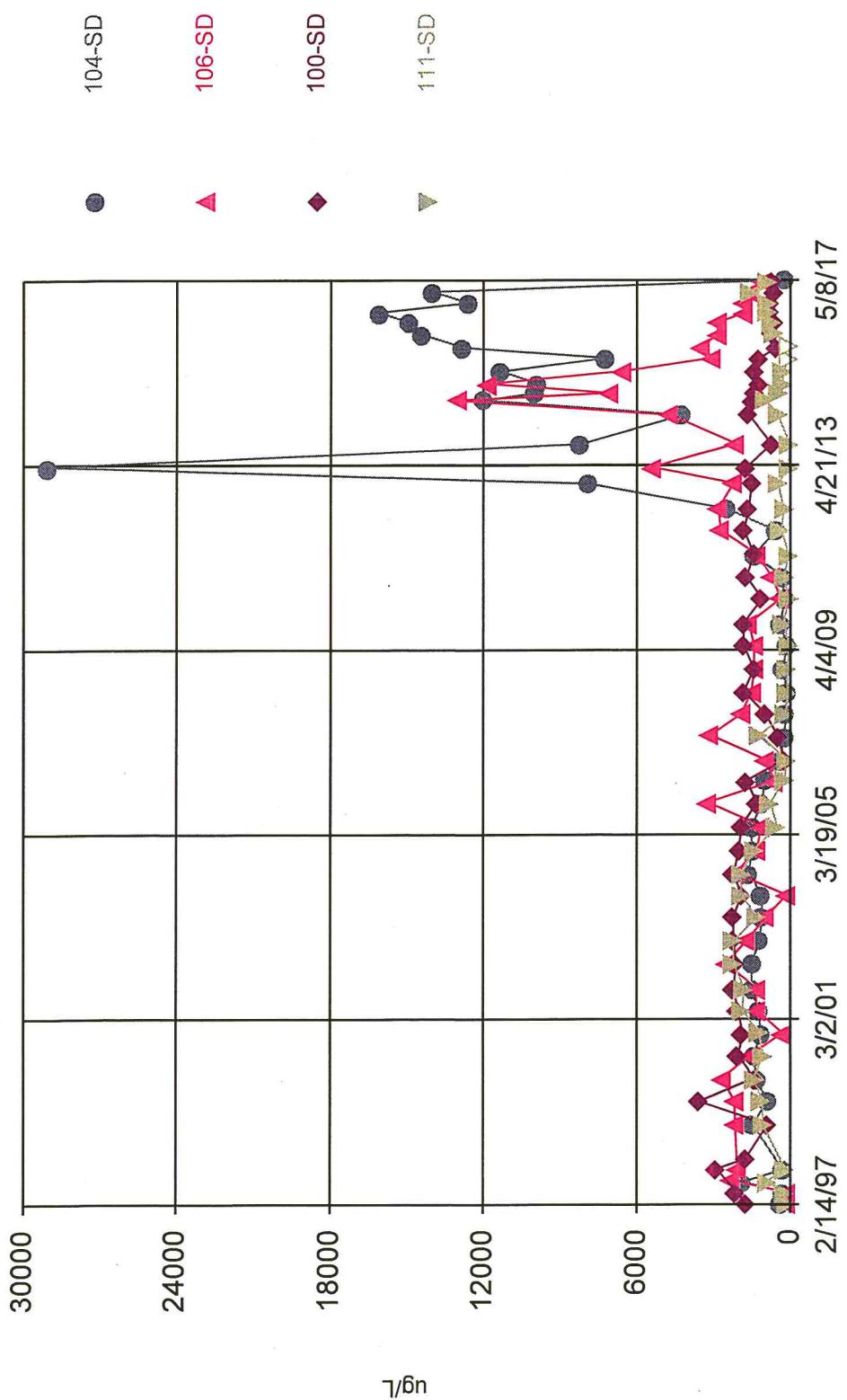
Time Series



Constituent: Hardness Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

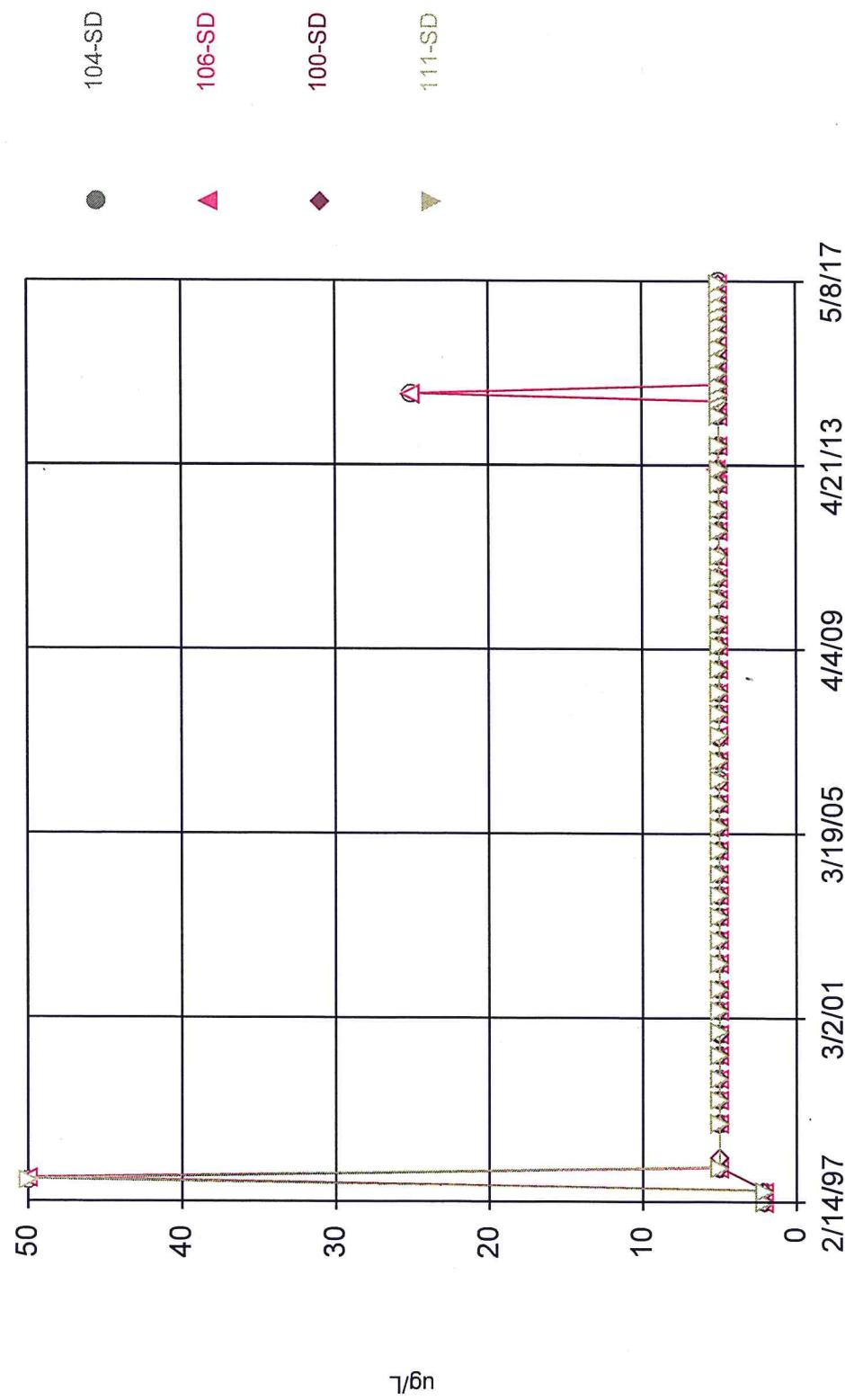
Sanitas™ v.9.5.32 Software licensed to Jet Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



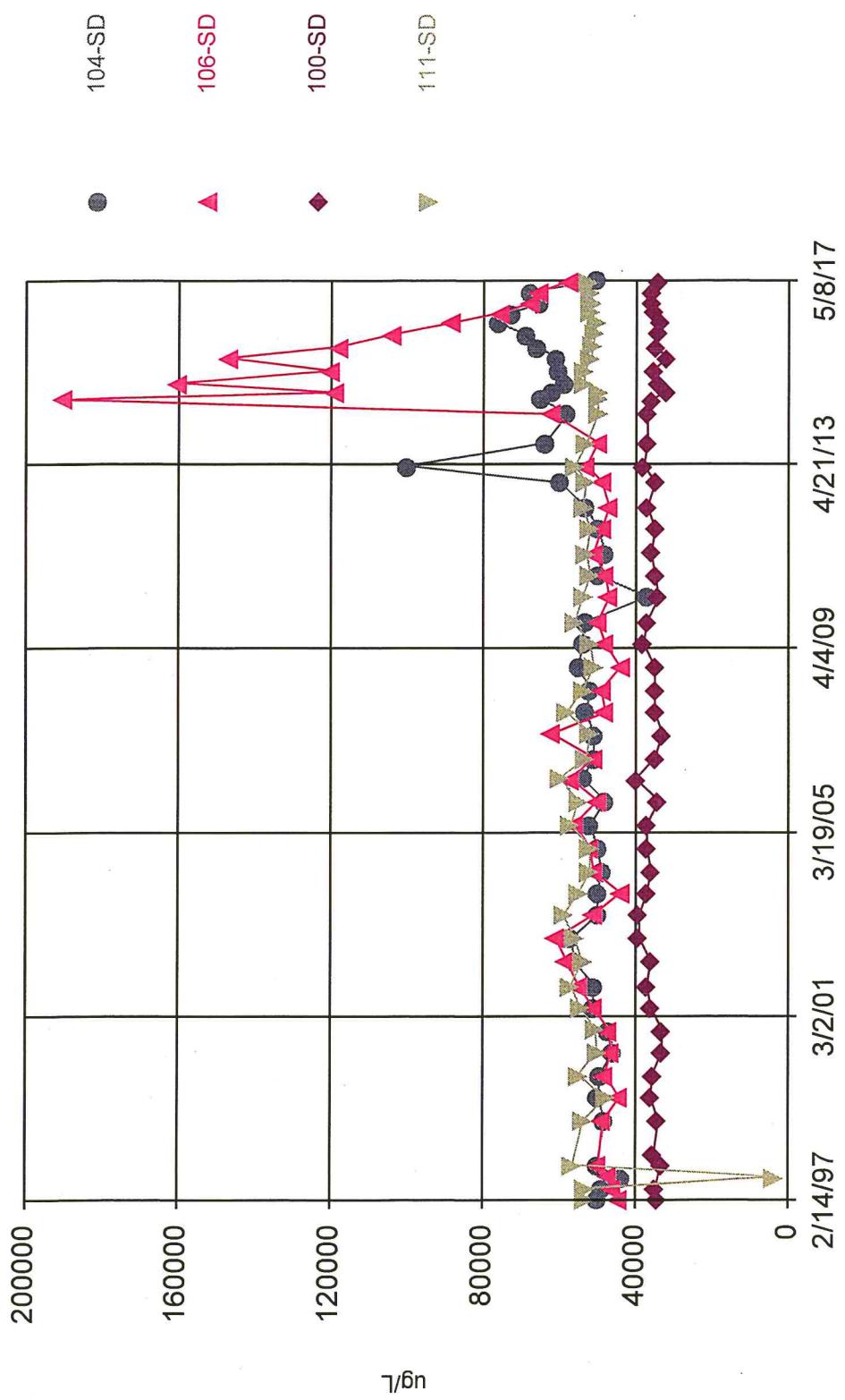
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Hollow symbols indicate censored values.

Time Series



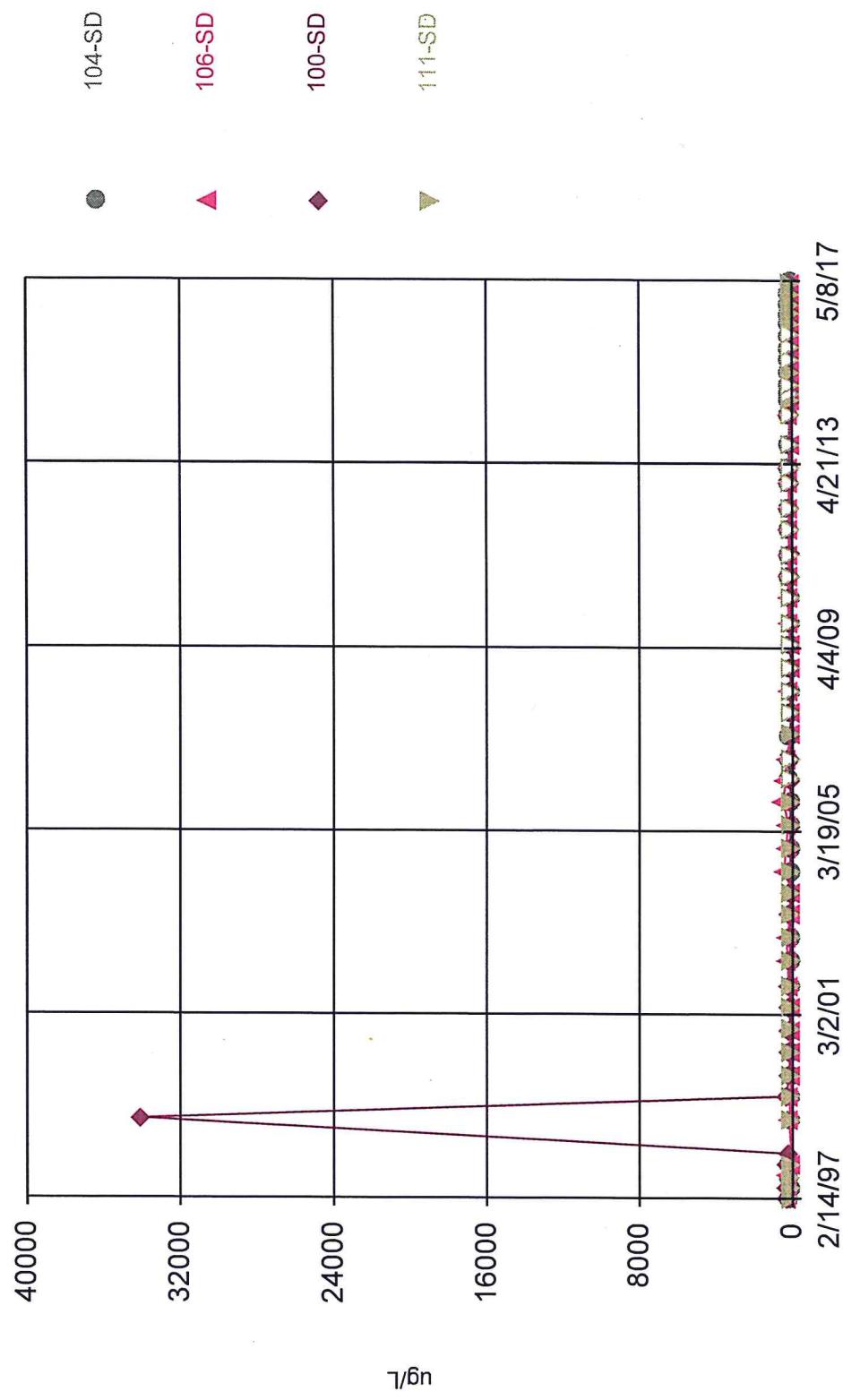
Constituent: Lead Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



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

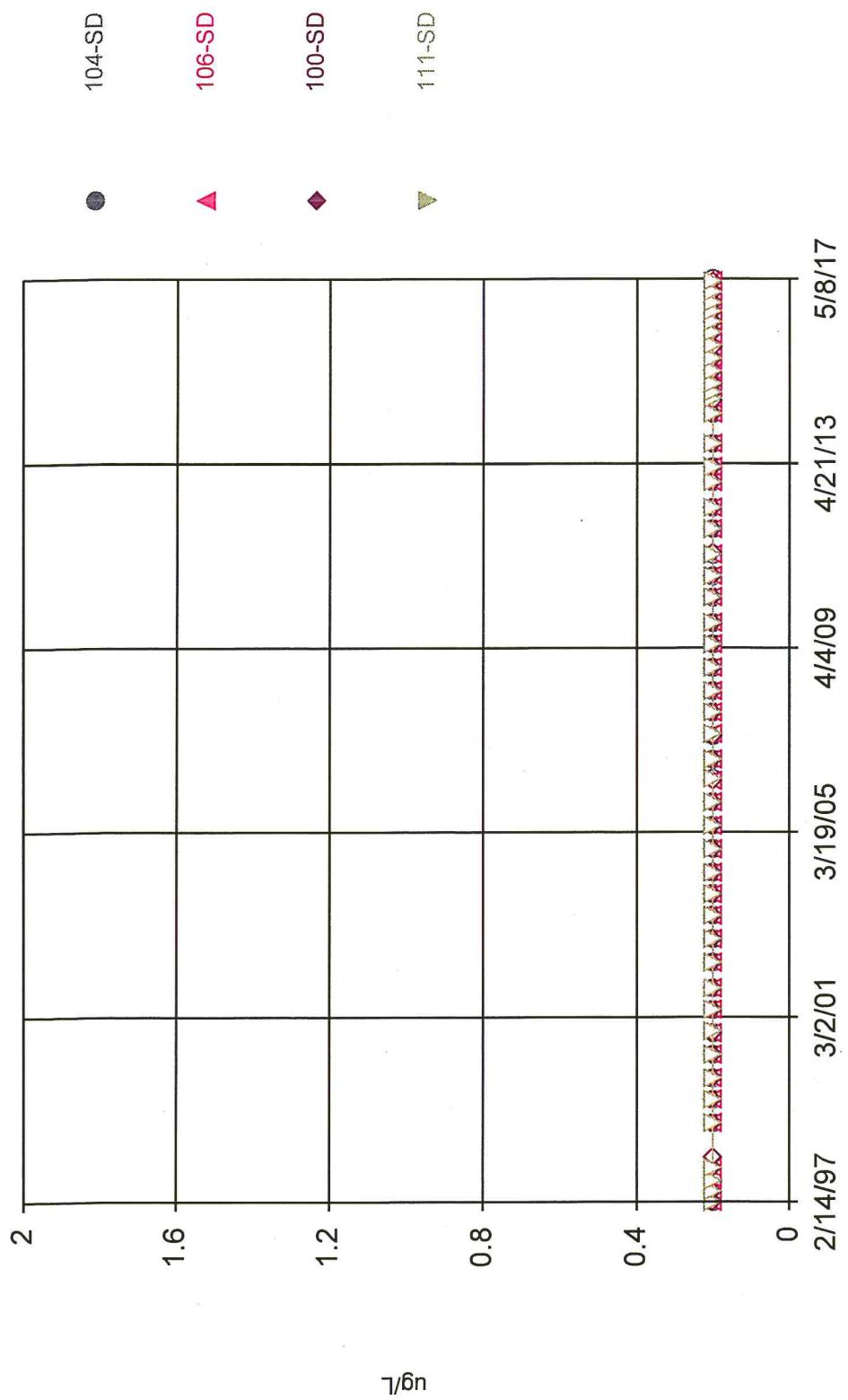
Time Series



Constituent: Manganese Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

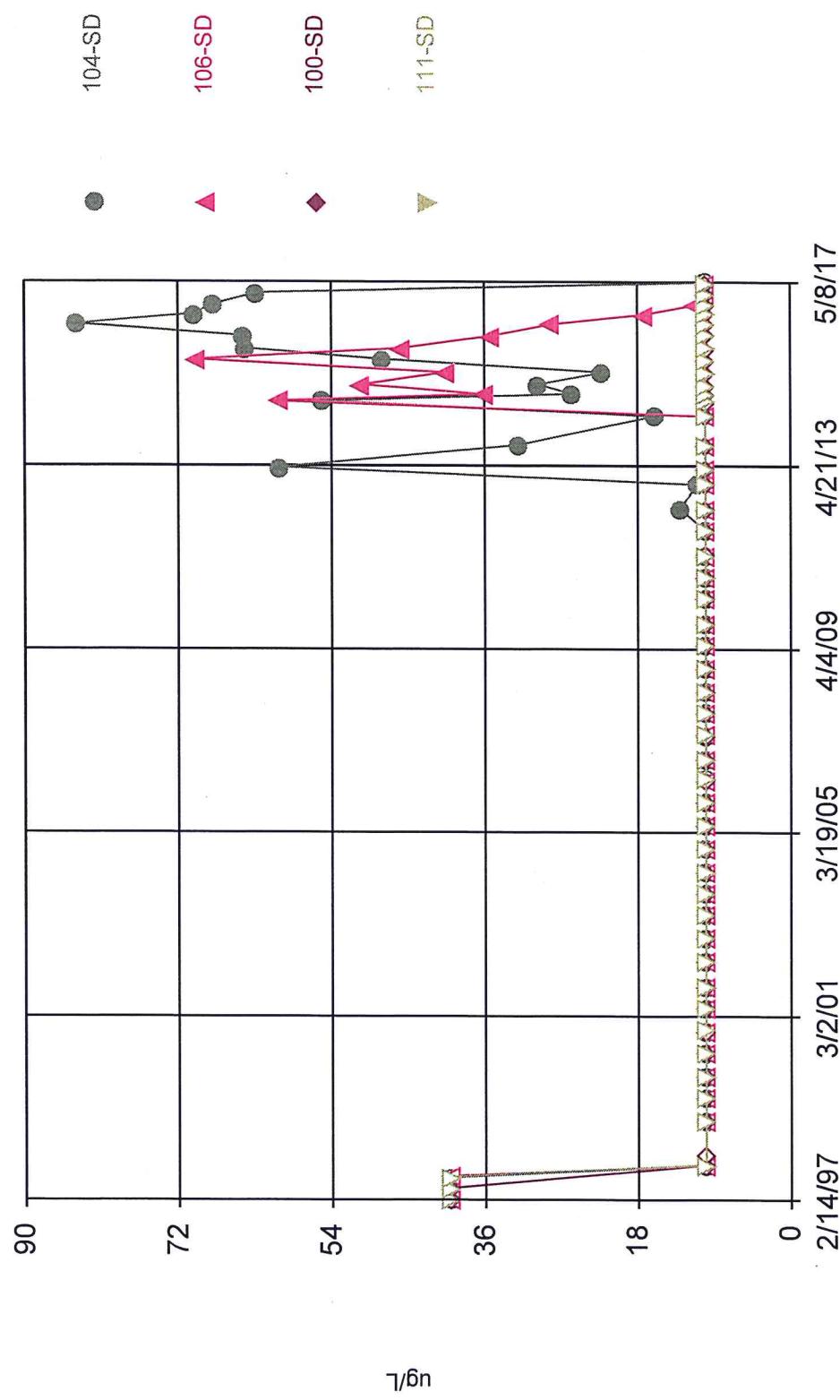
Time Series



Constituent: Mercury Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

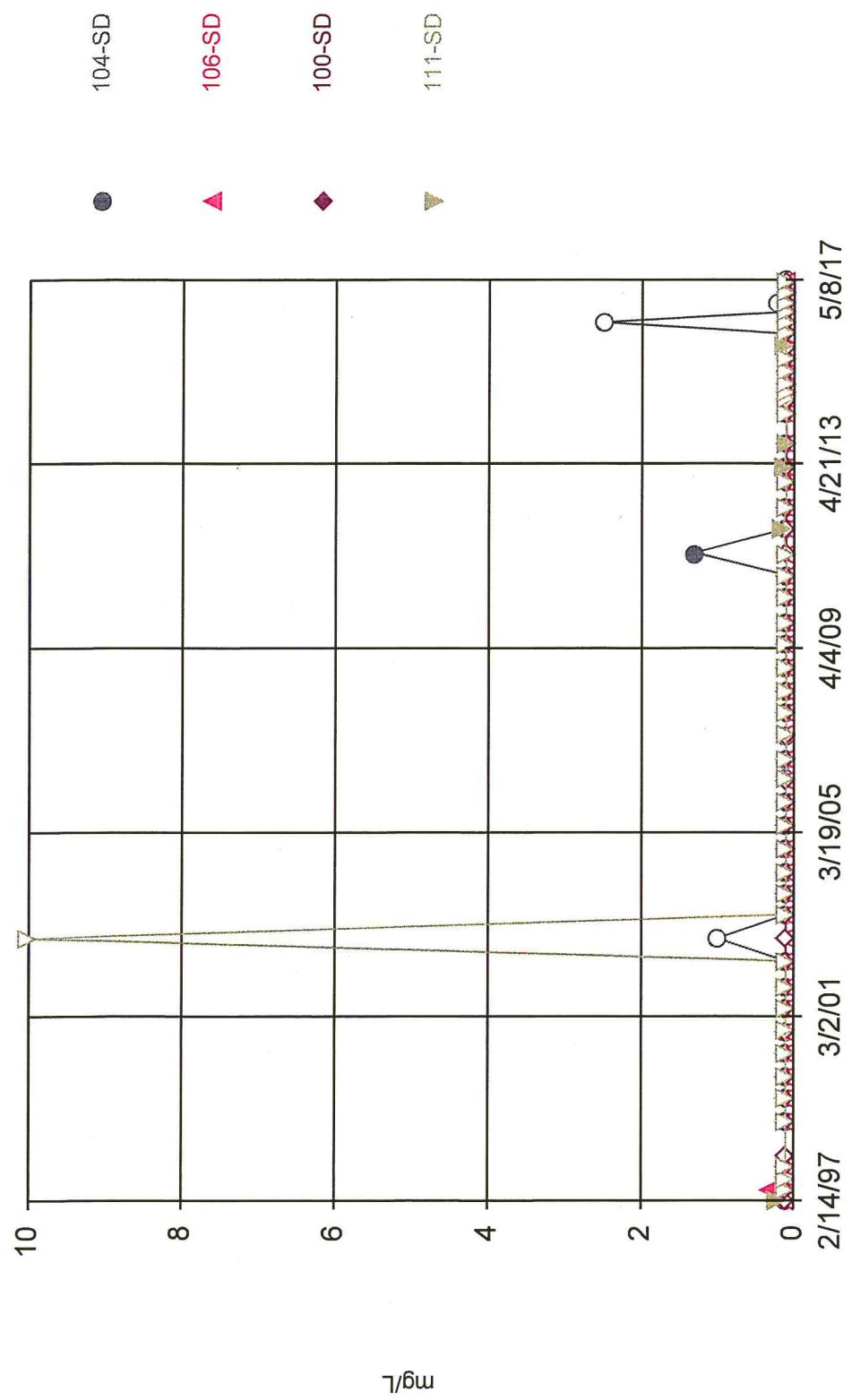
Time Series



Constituent: Nickel Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

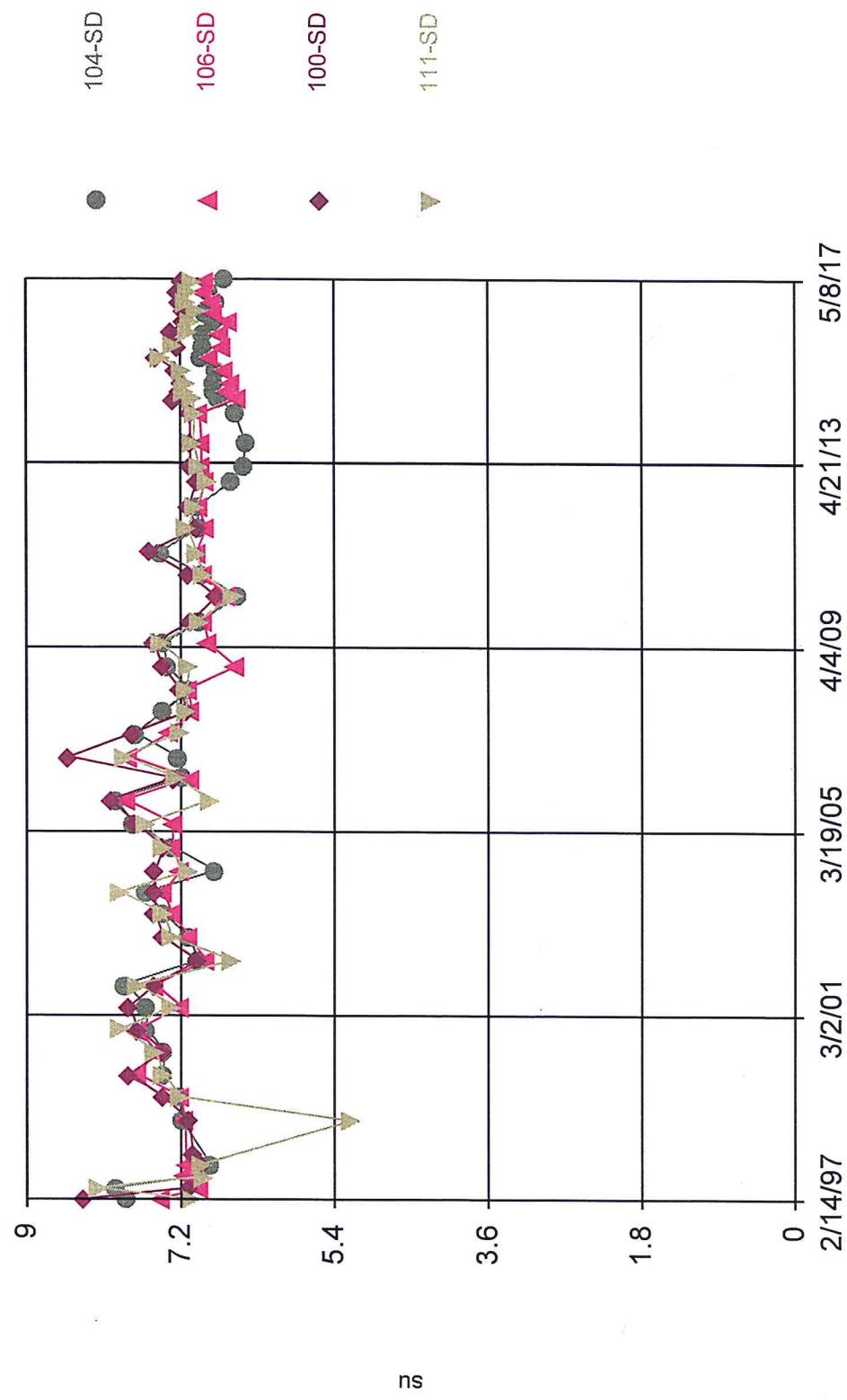
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nitrate/Nitrite Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

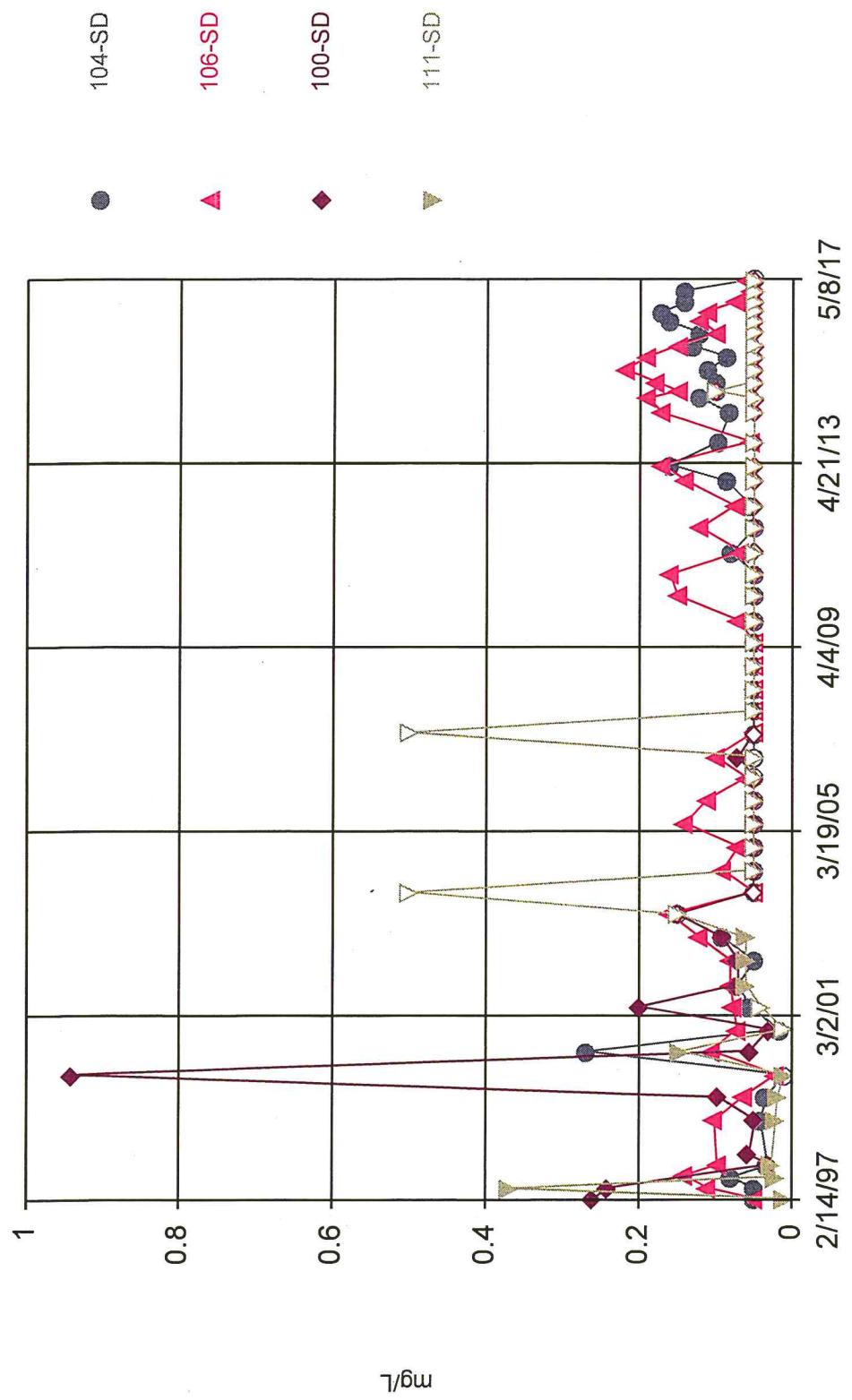
Time Series



Constituent: pH [Field] Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

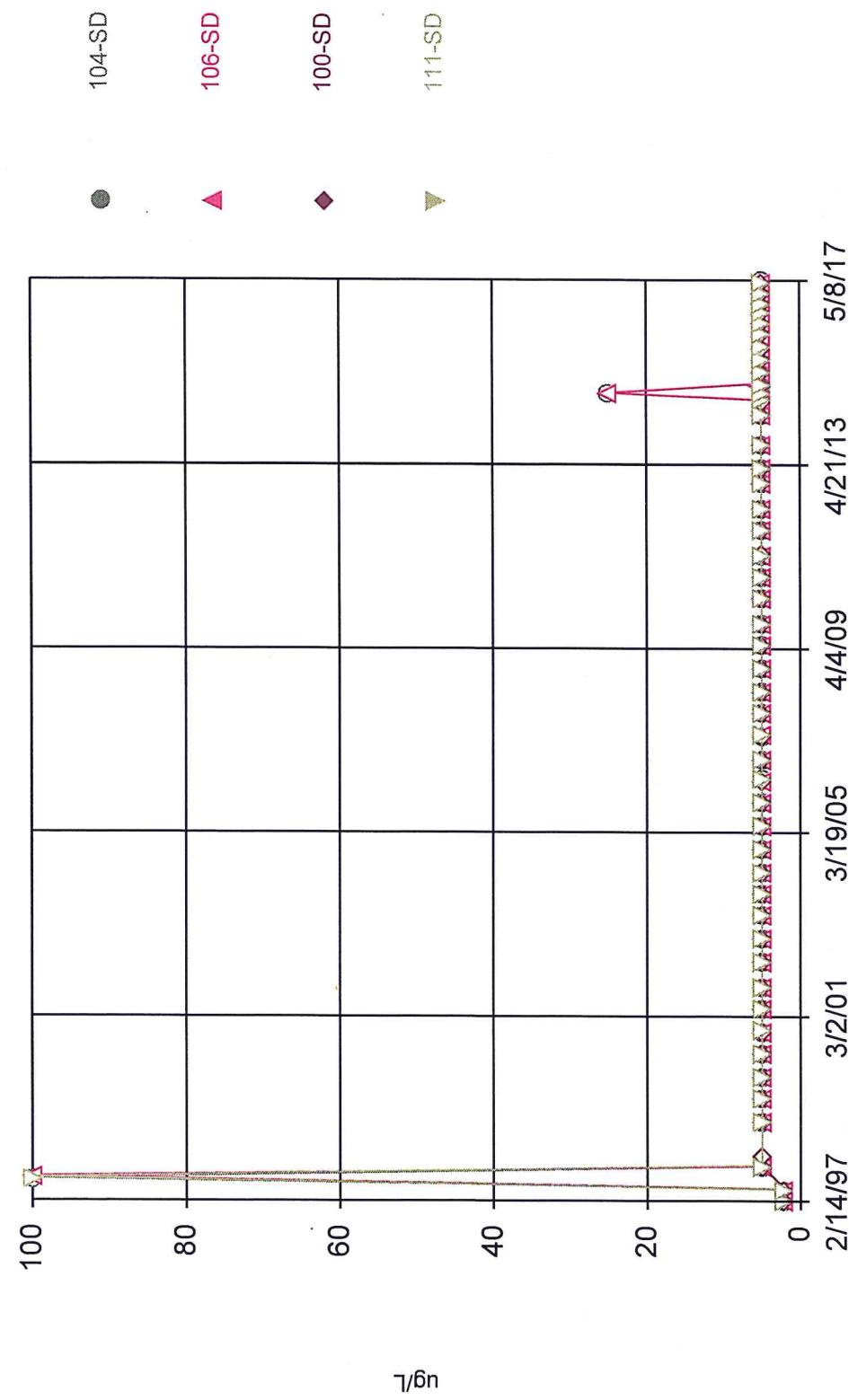
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



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

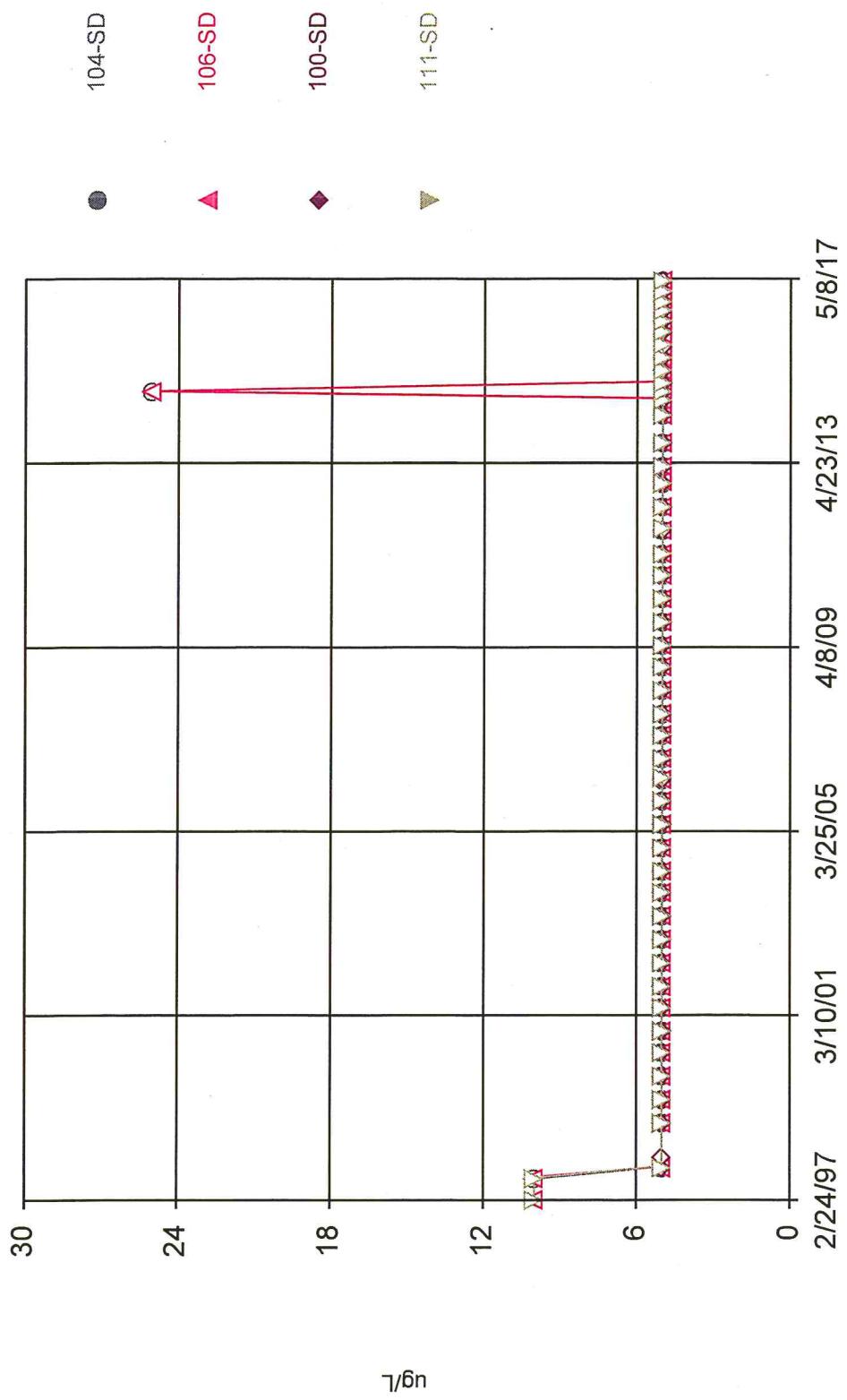
Time Series



Constituent: Selenium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

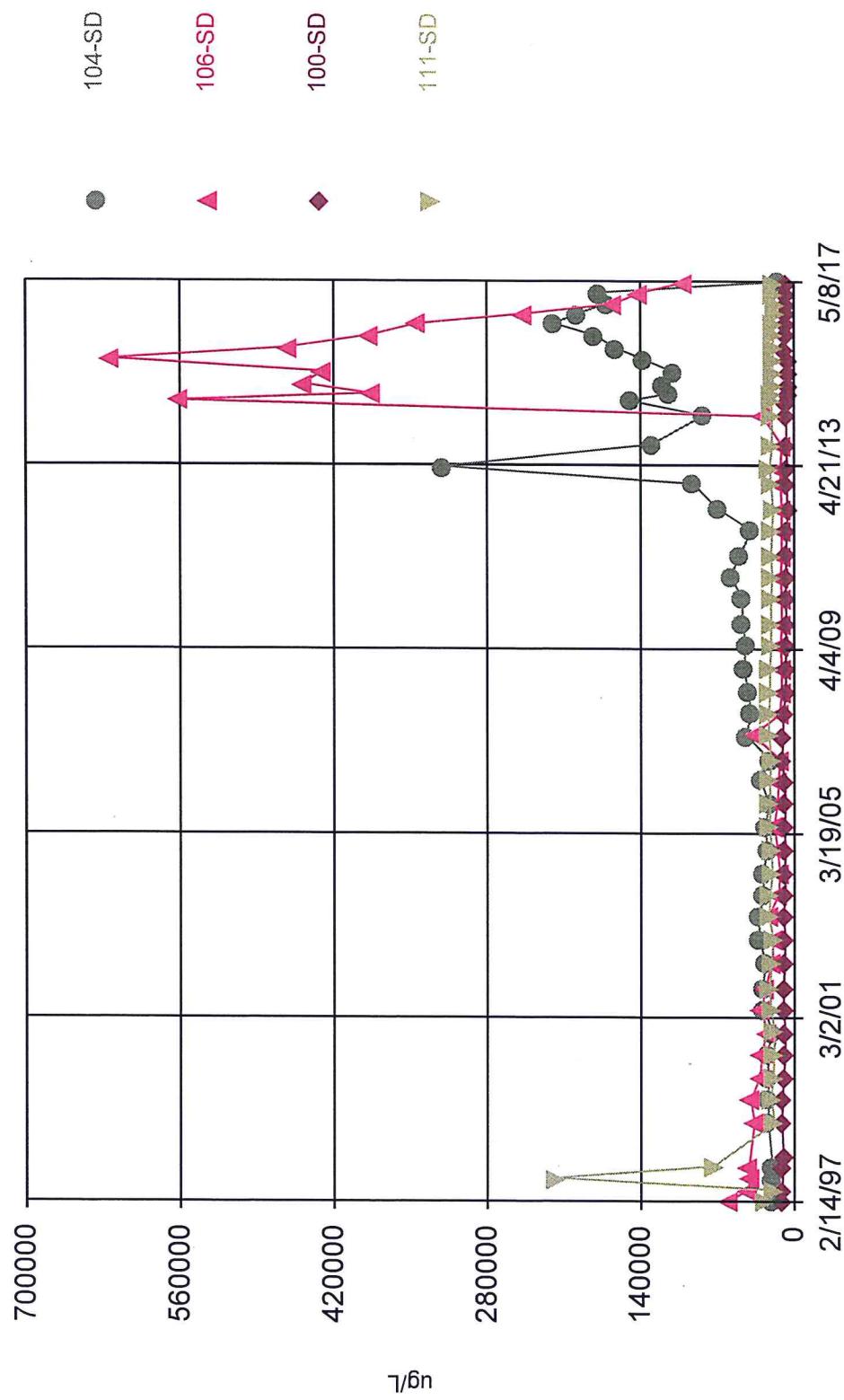
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



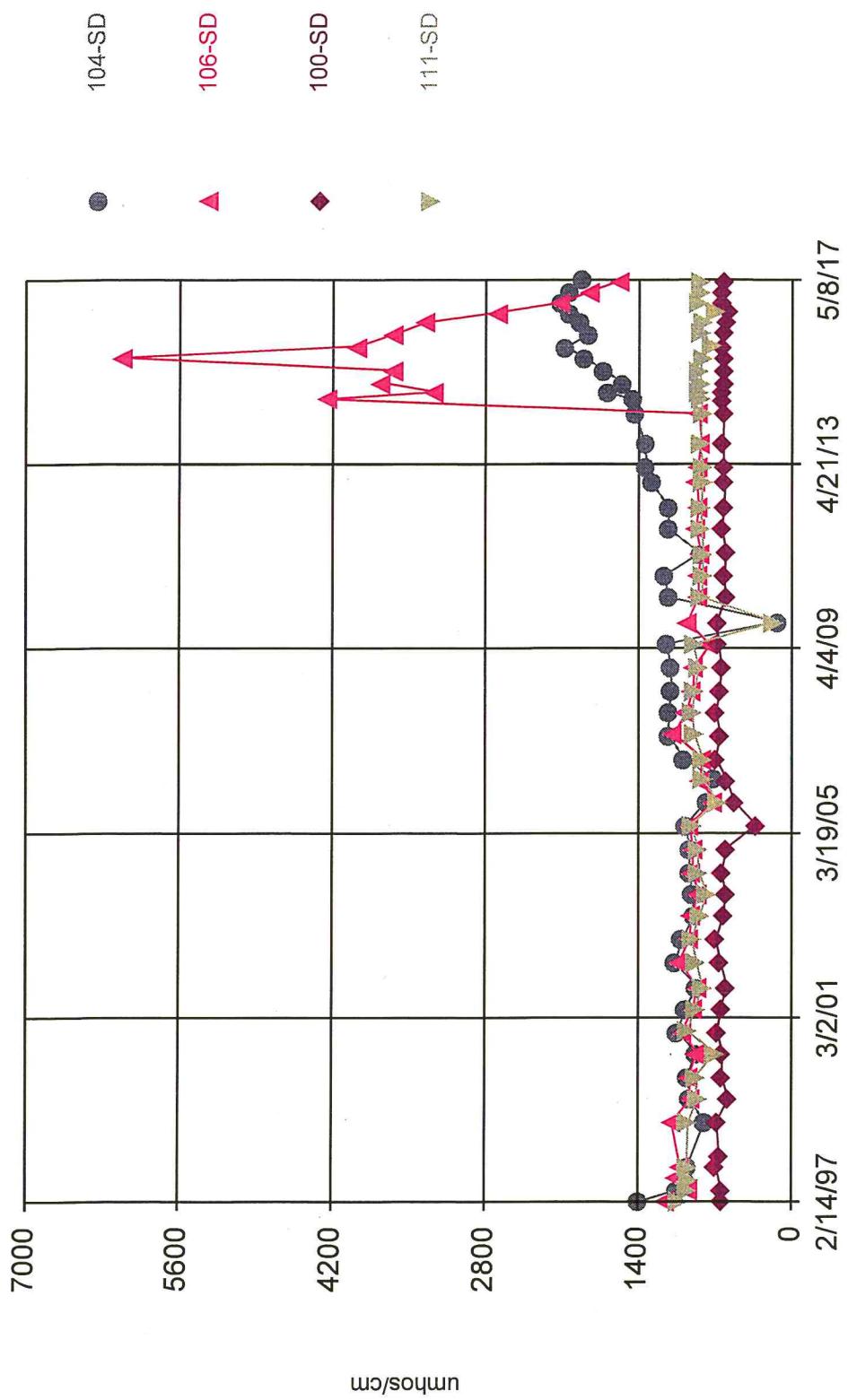
Constituent: Silver Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

Time Series



Constituent: Sodium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

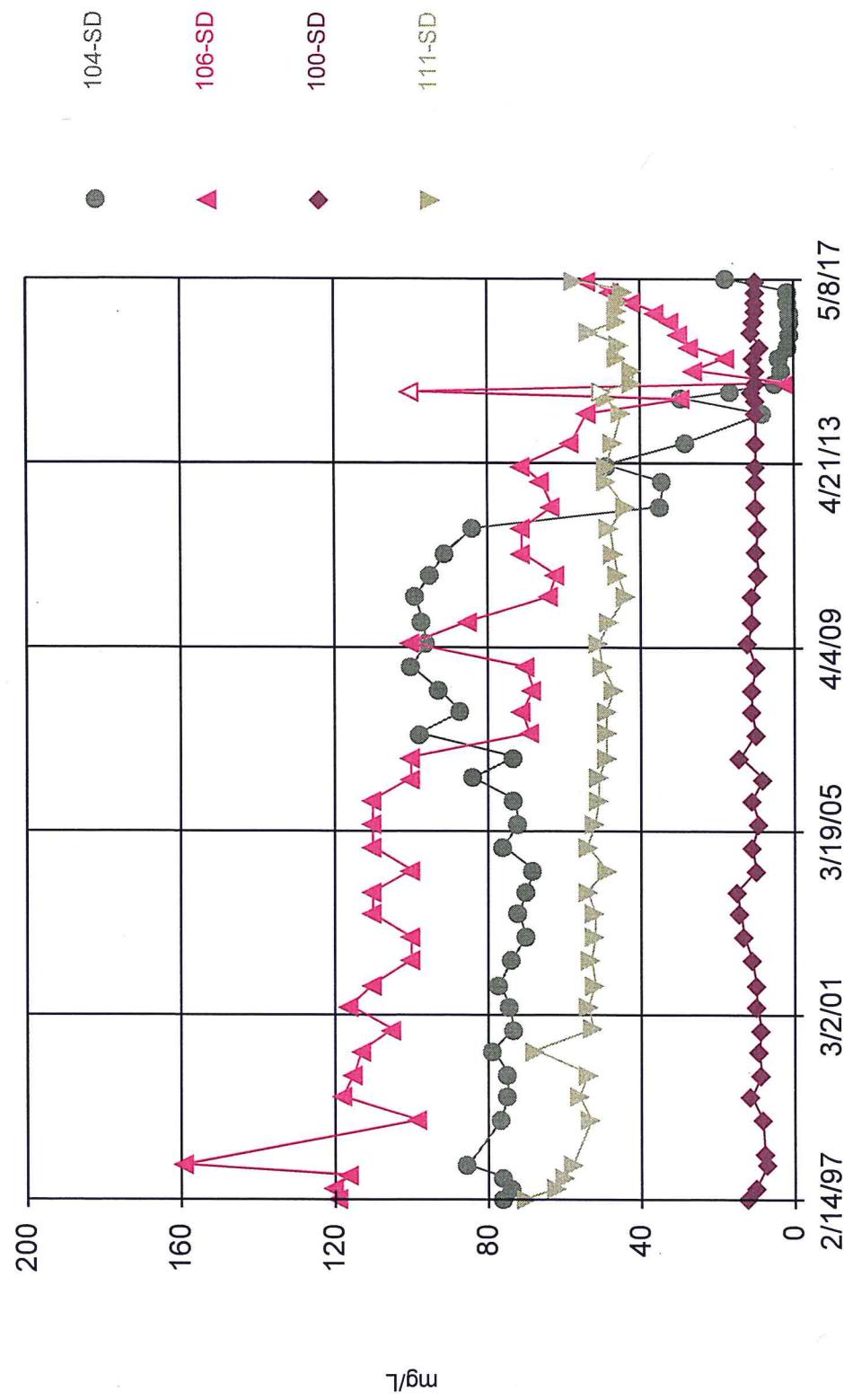
Time Series



Constituent: Specific Conductance [Field] Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

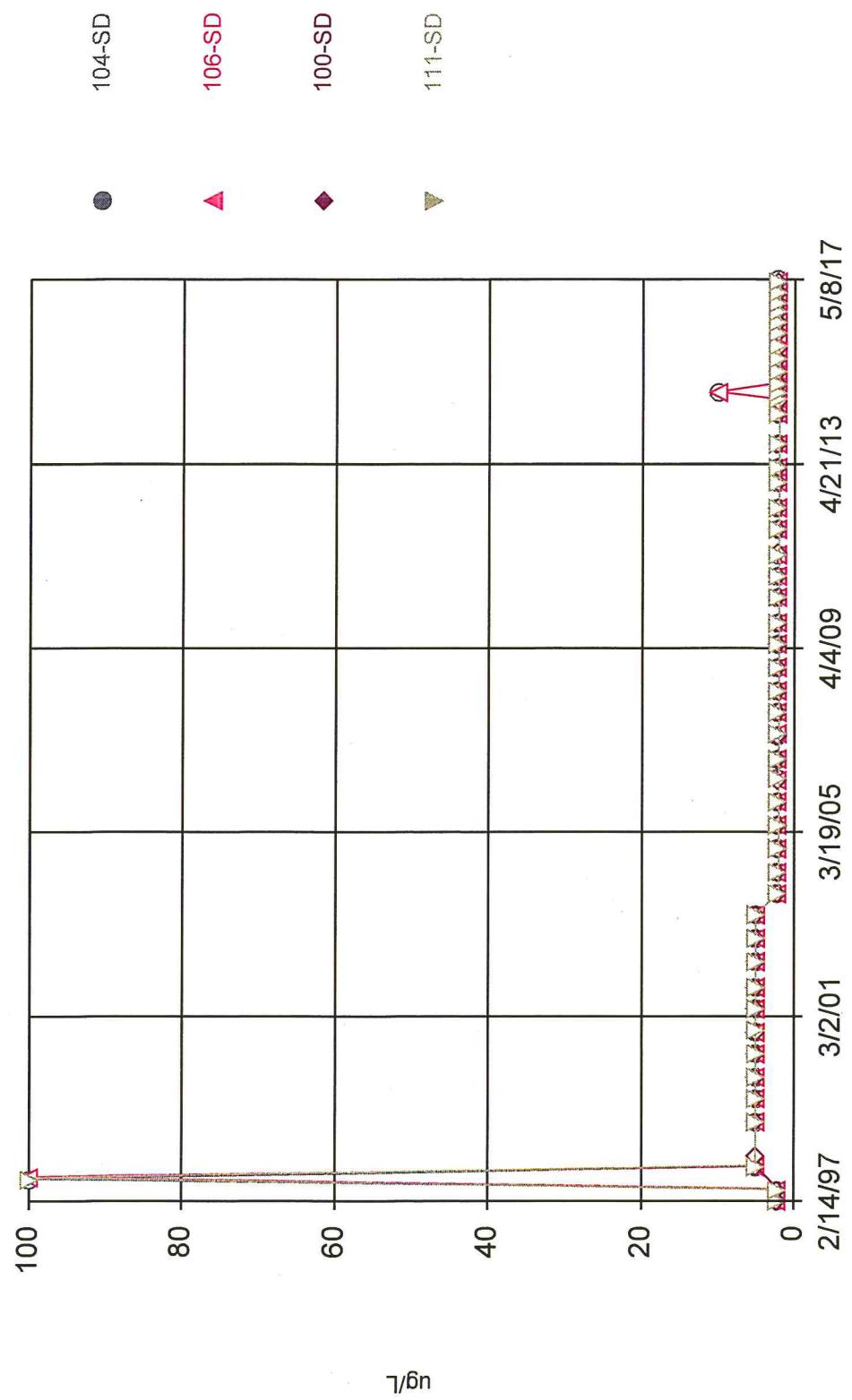
Time Series



Constituent: Sulfate Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

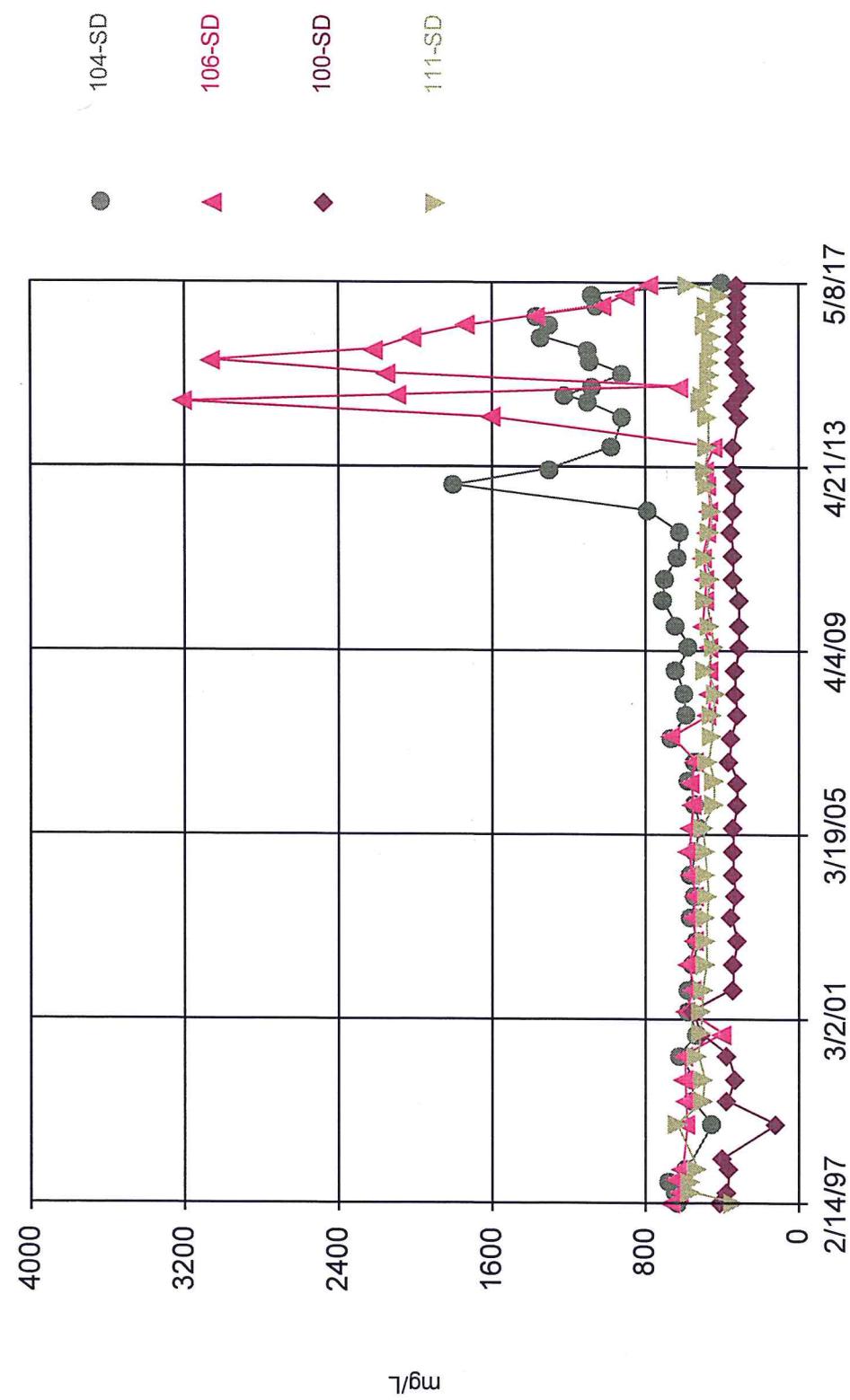
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

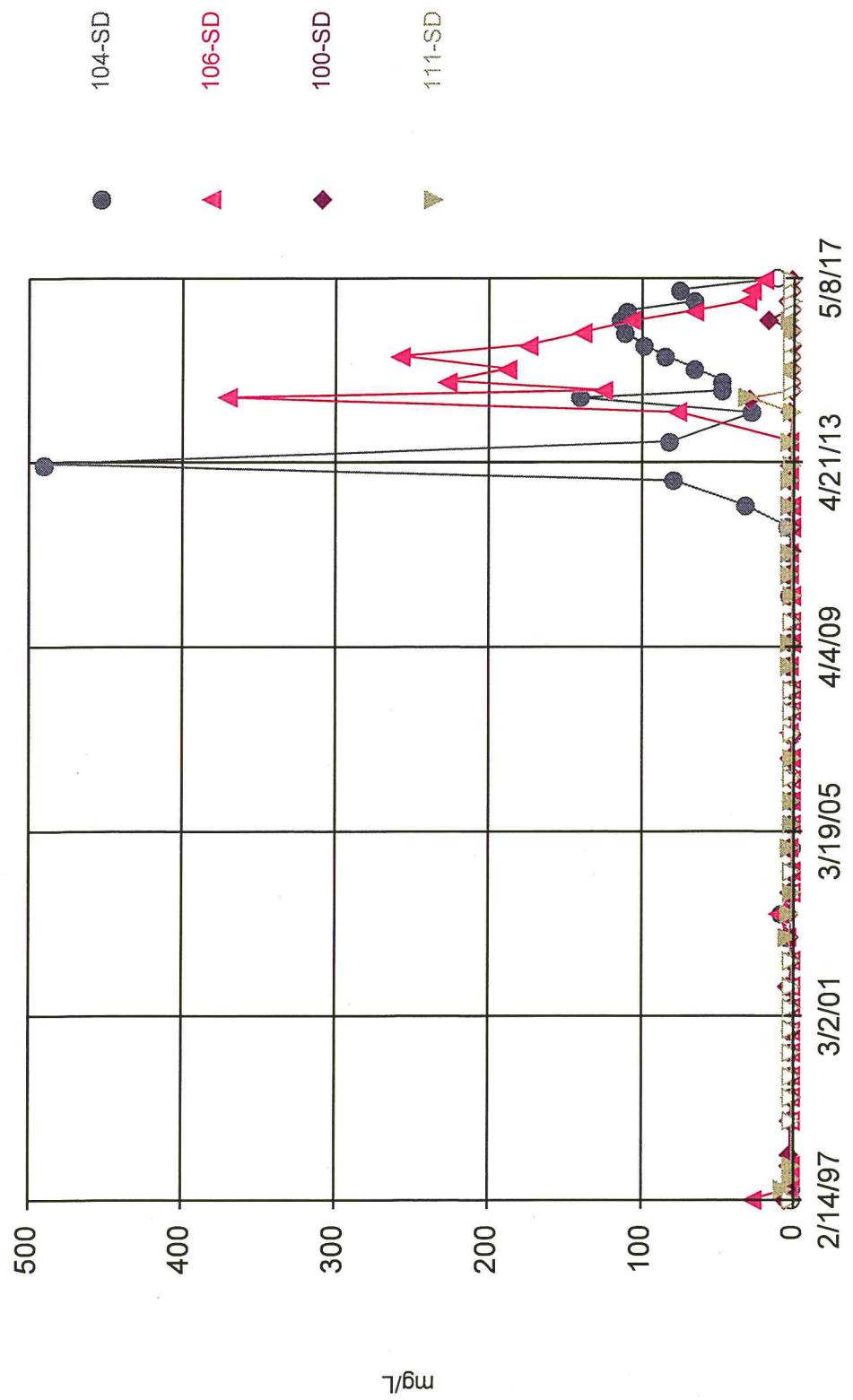
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

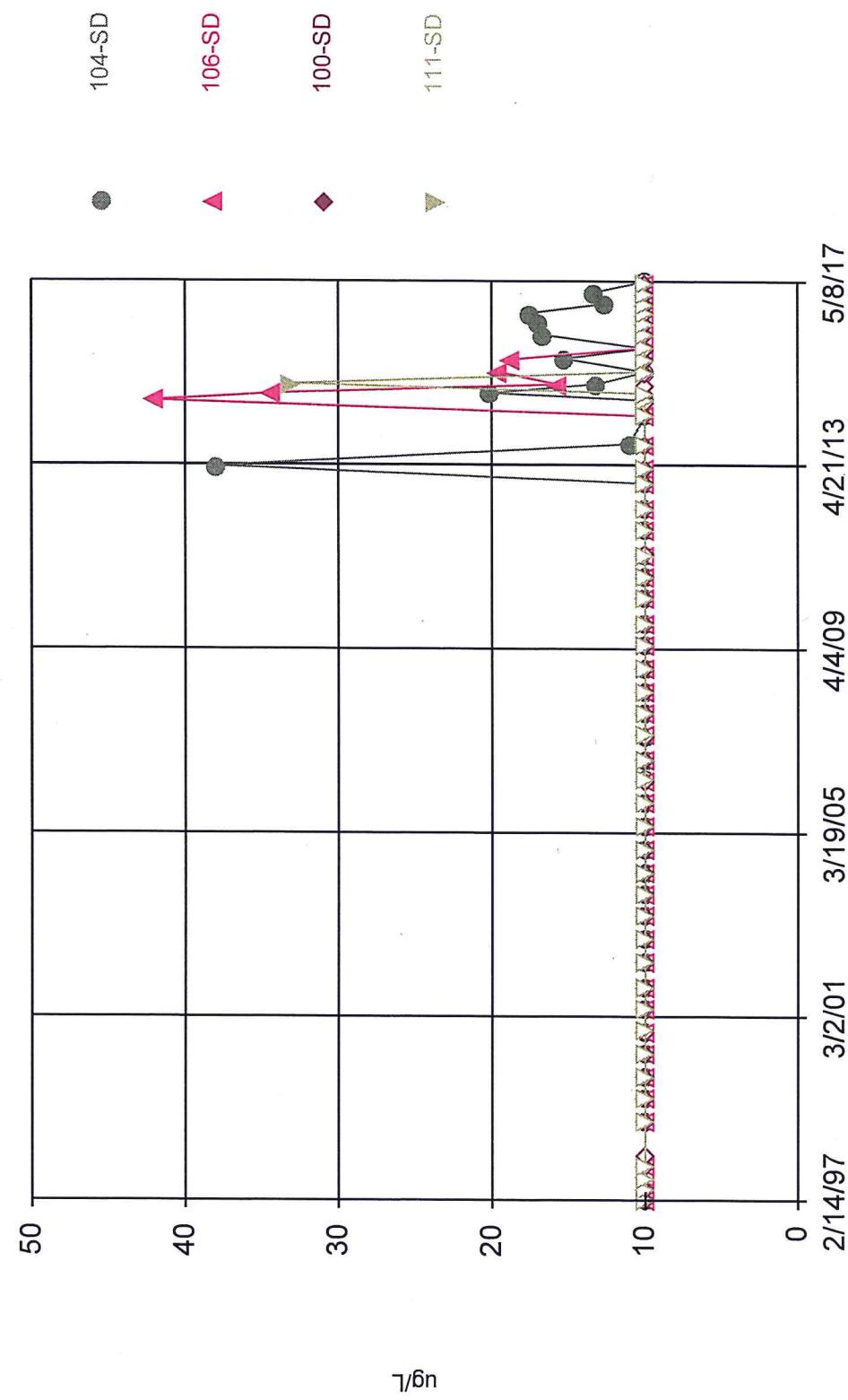
Time Series



Constituent: Total Organic Carbon [TOC] Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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

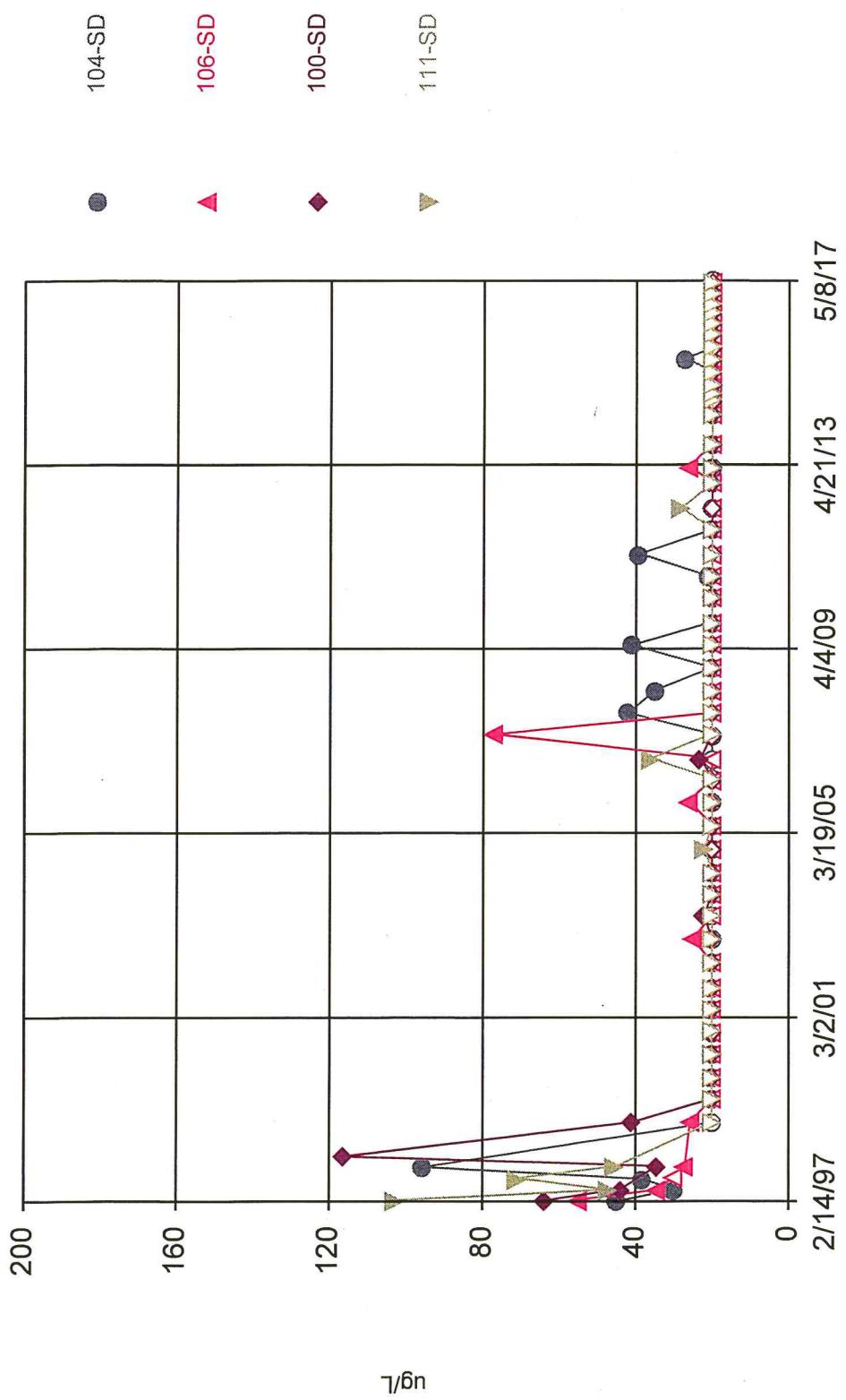
Time Series



Constituent: Vanadium Total Analysis Run 7/12/2017 12:03 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

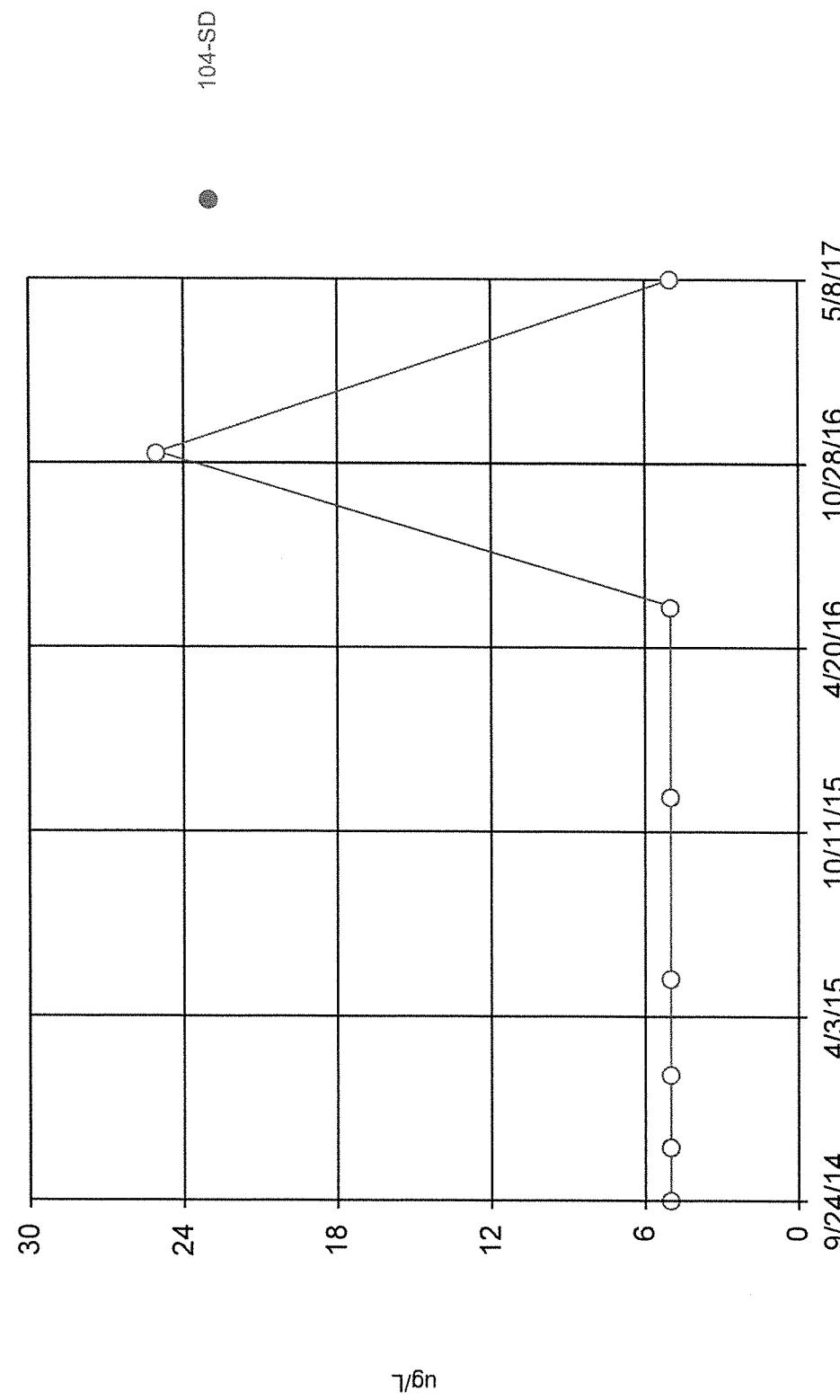
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



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

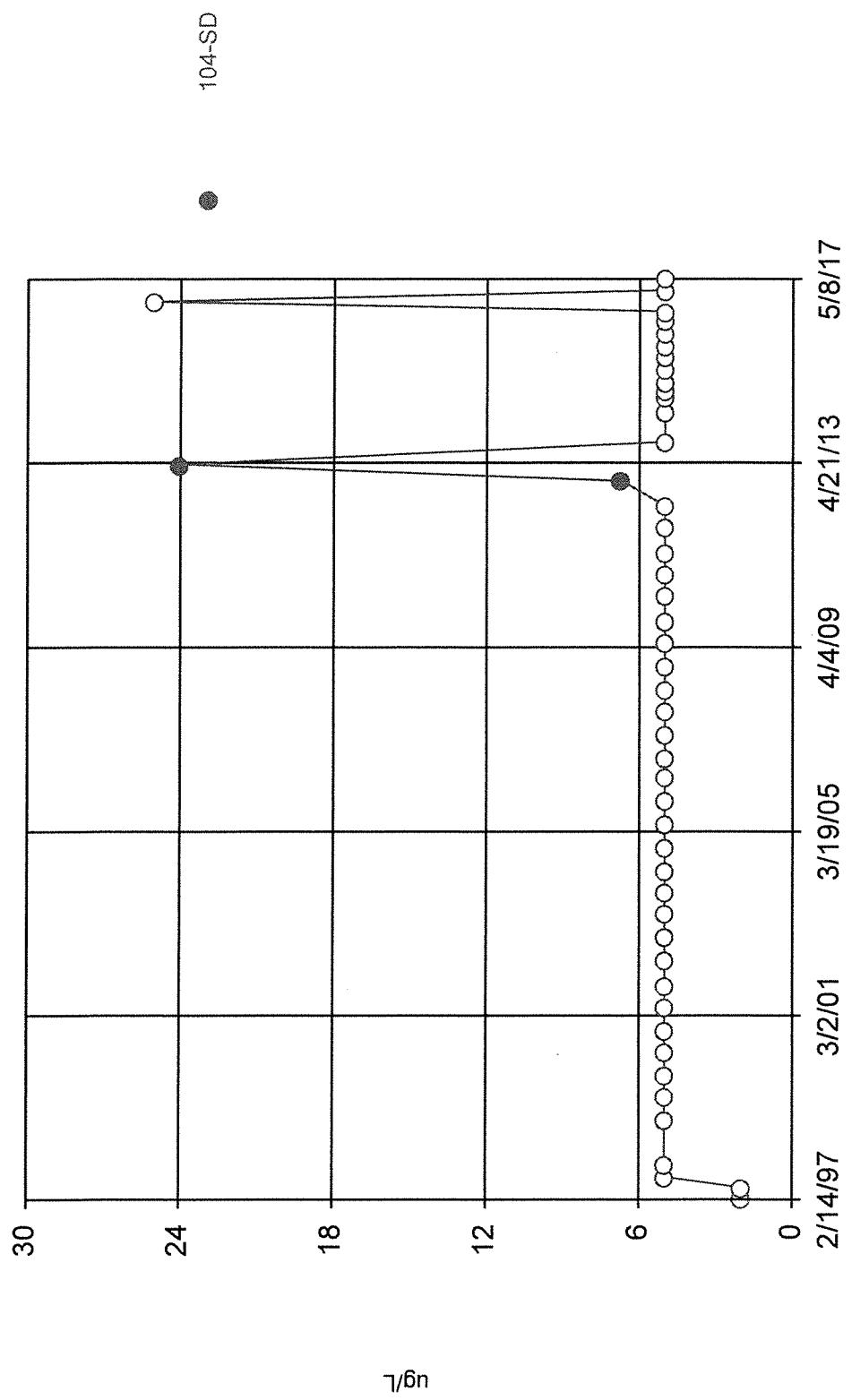
Time Series



Constituent: 124-Trimethylbenzene Analysis Run 7/12/2017 12:24 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

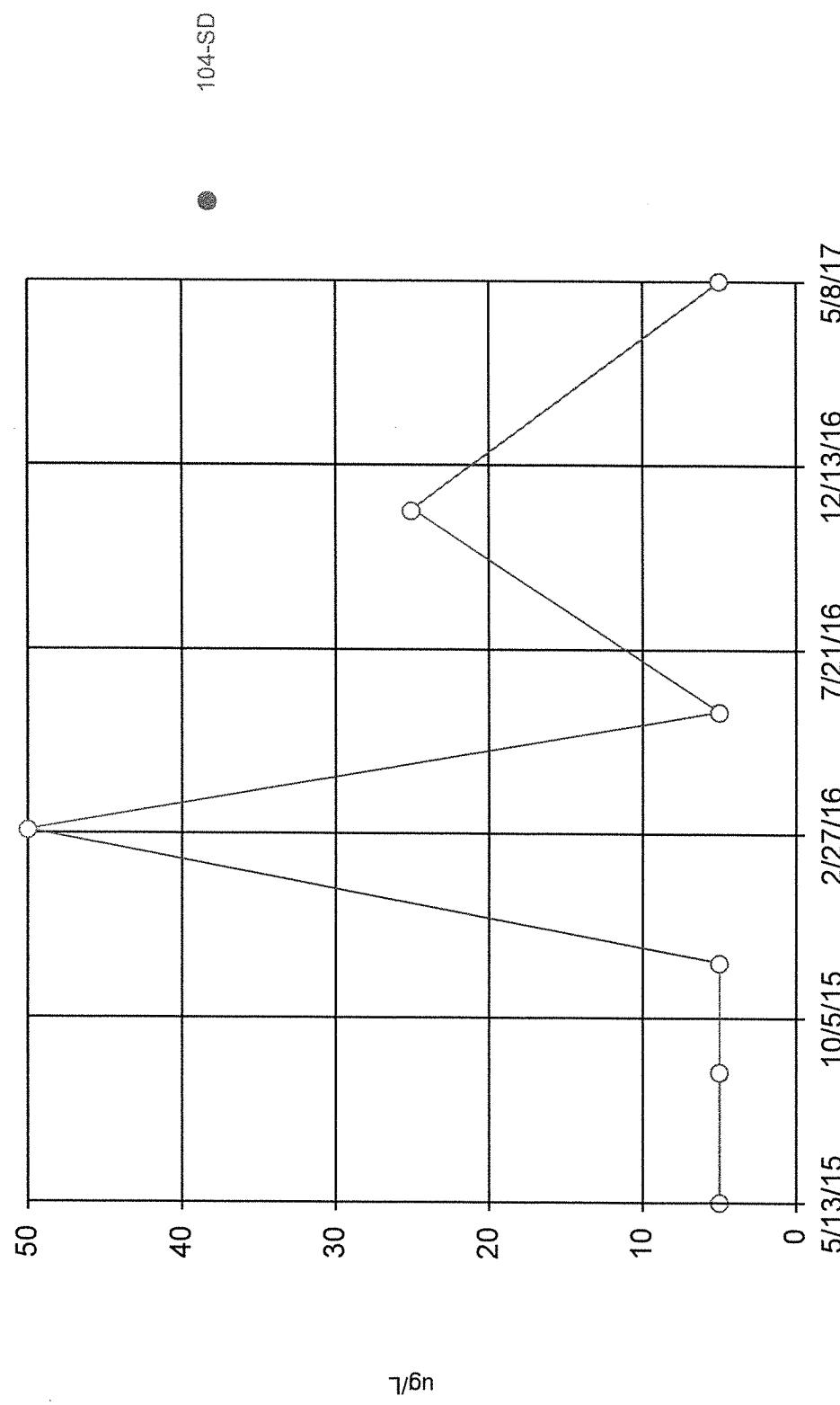
Time Series



Constituent: 12-Dichloroethane Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

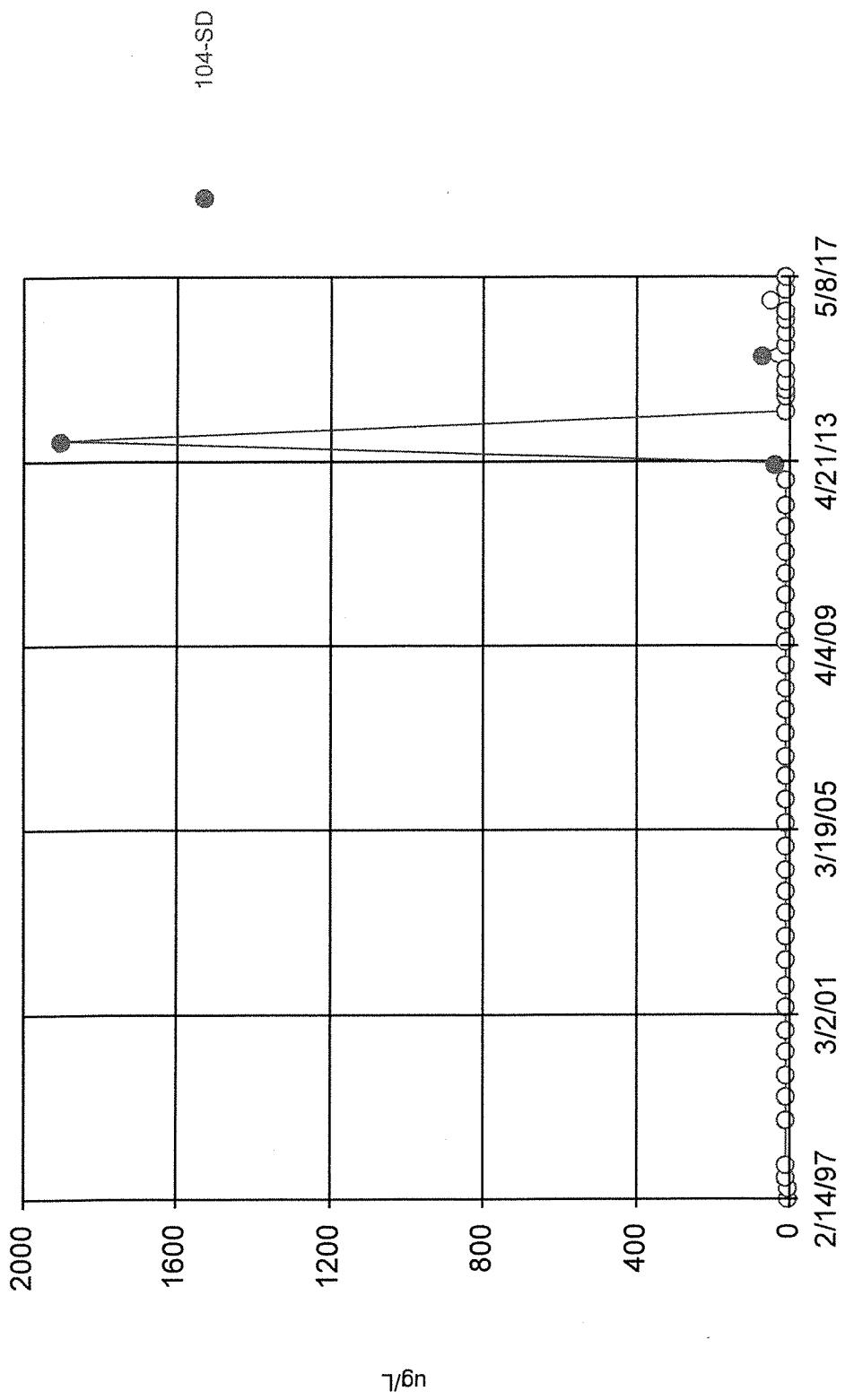
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1-Chlorobutane Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

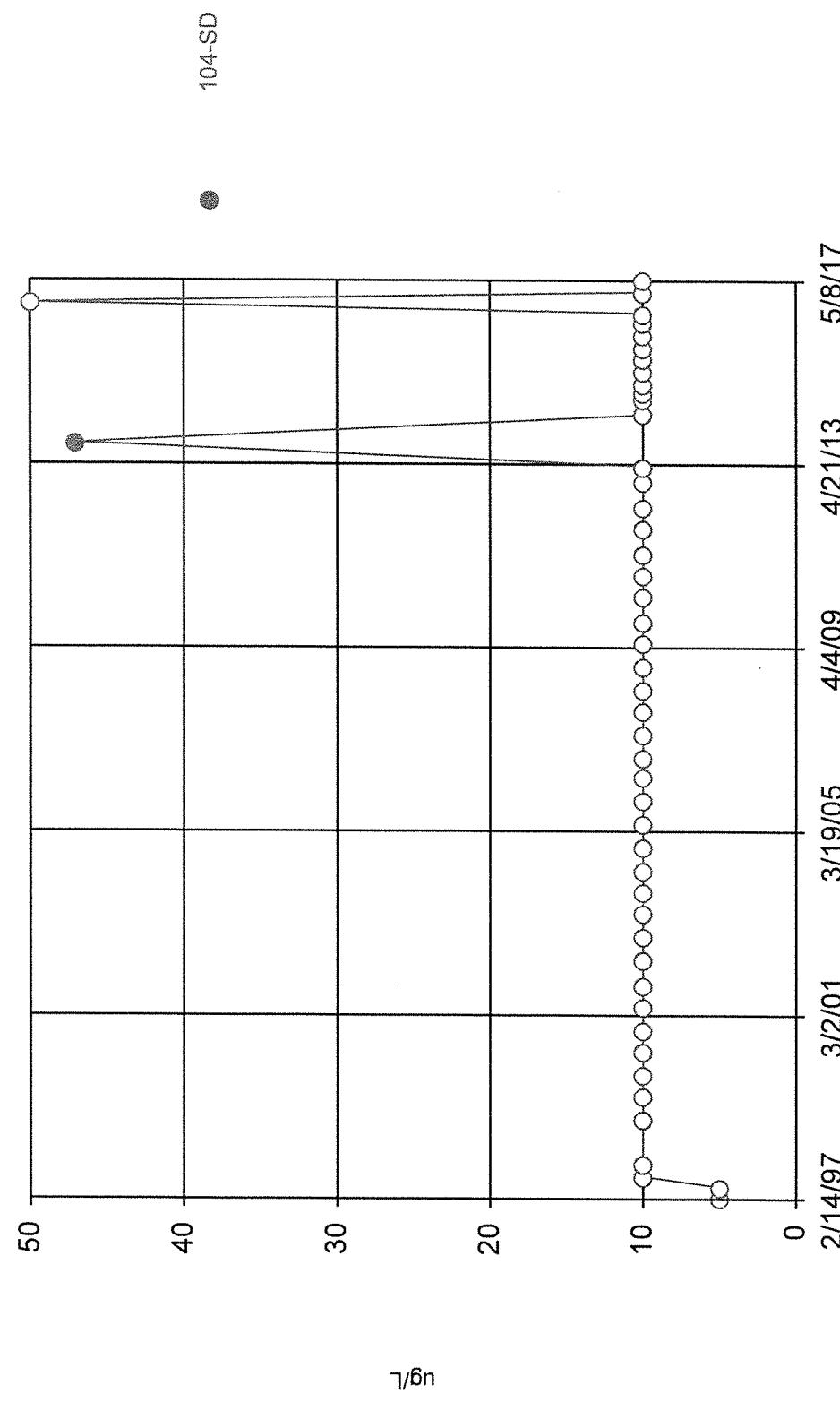
Time Series



Constituent: 2-Butanone [MEK] Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

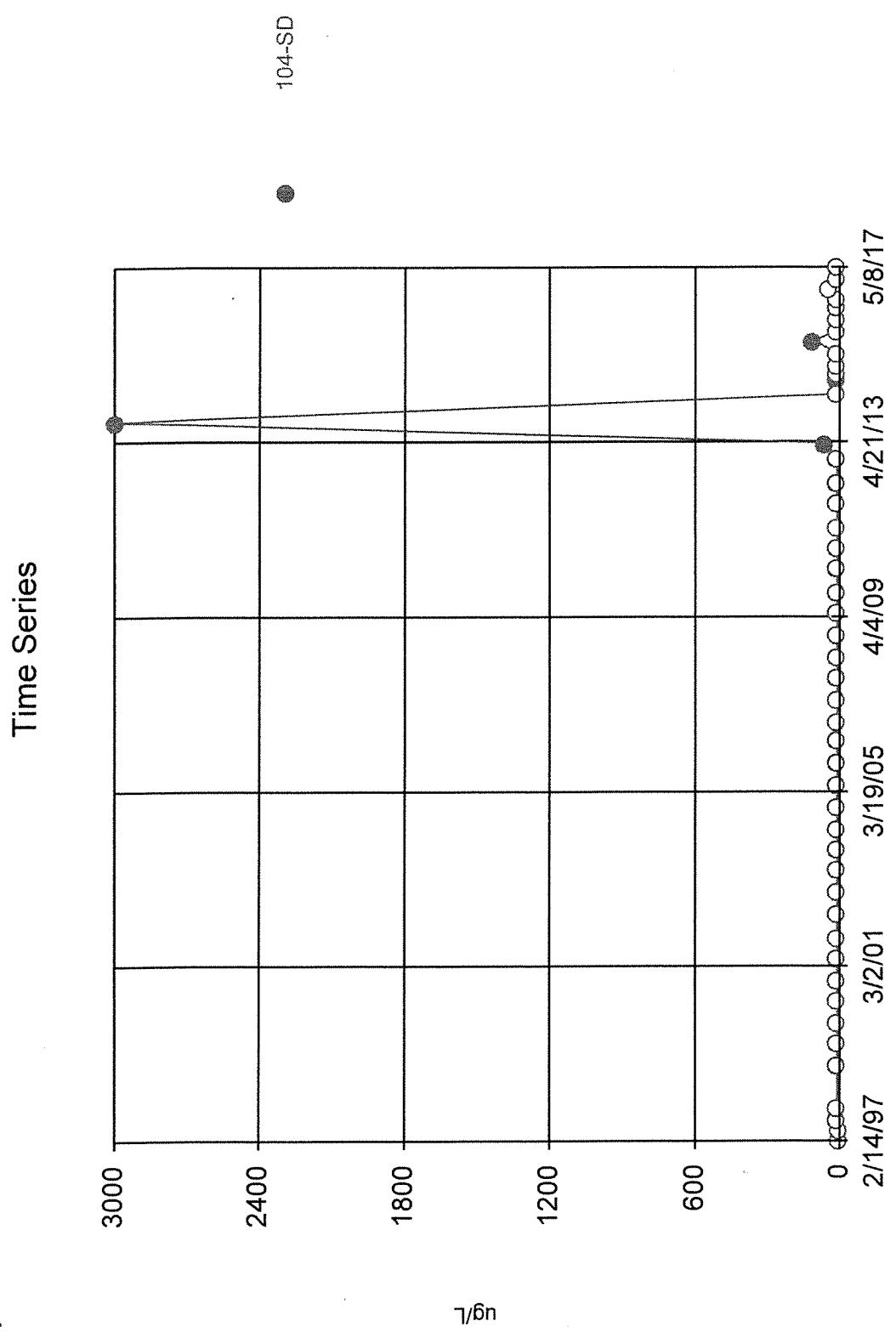
Sanitas™ v 9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



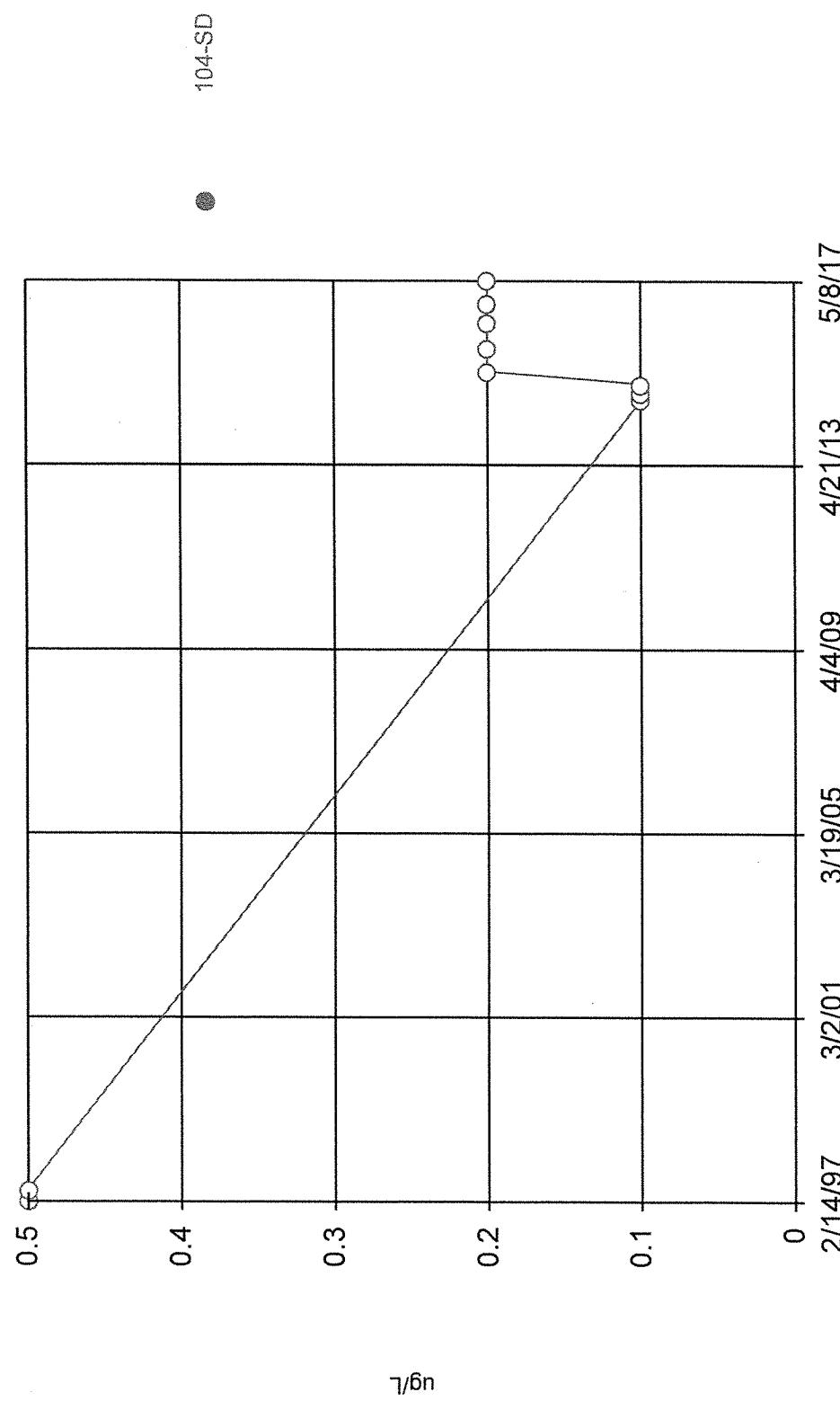
Constituent: 4-Methyl-2-pentanone [MIBK] Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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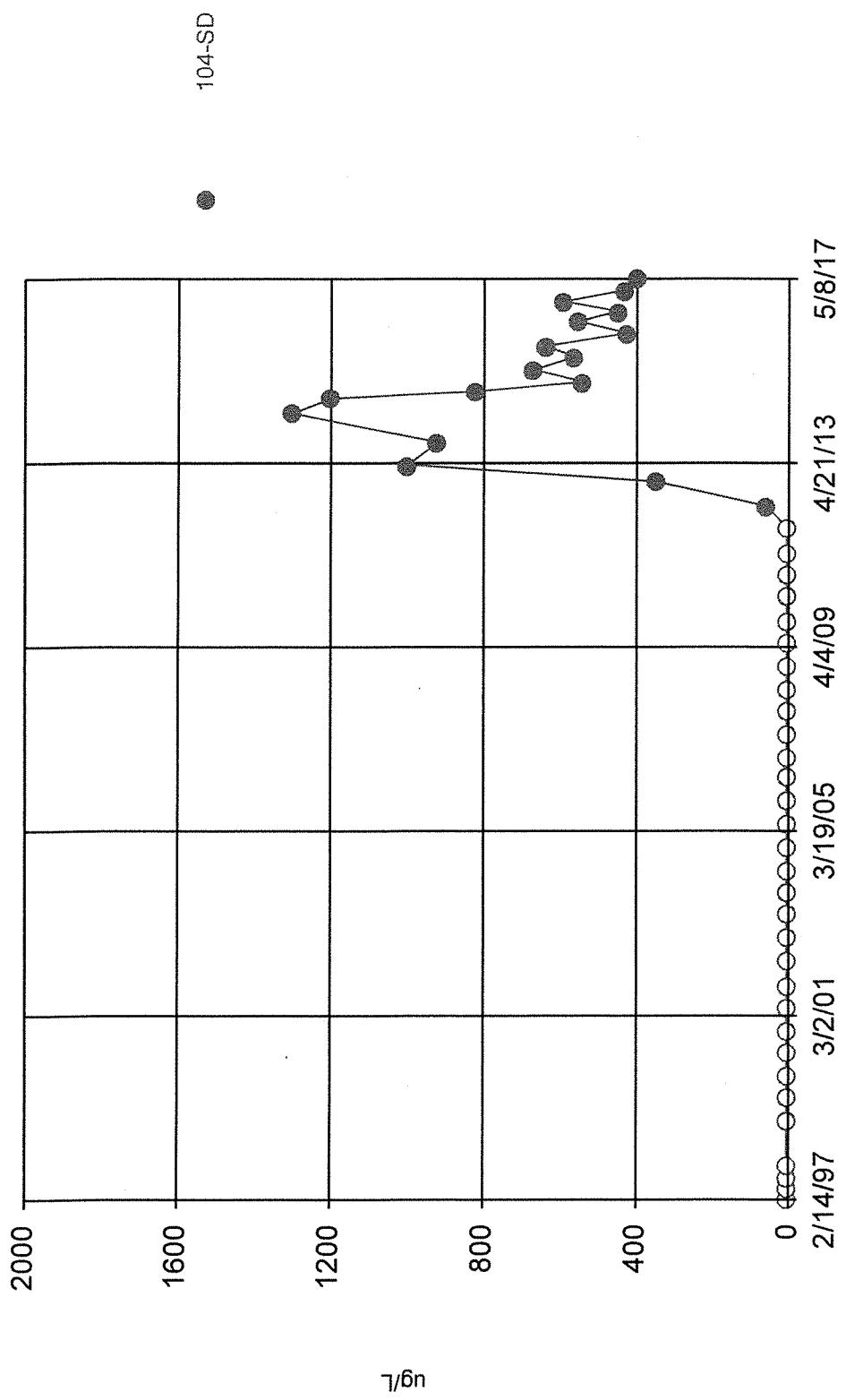
Time Series



Constituent: Aroclor 1221 Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

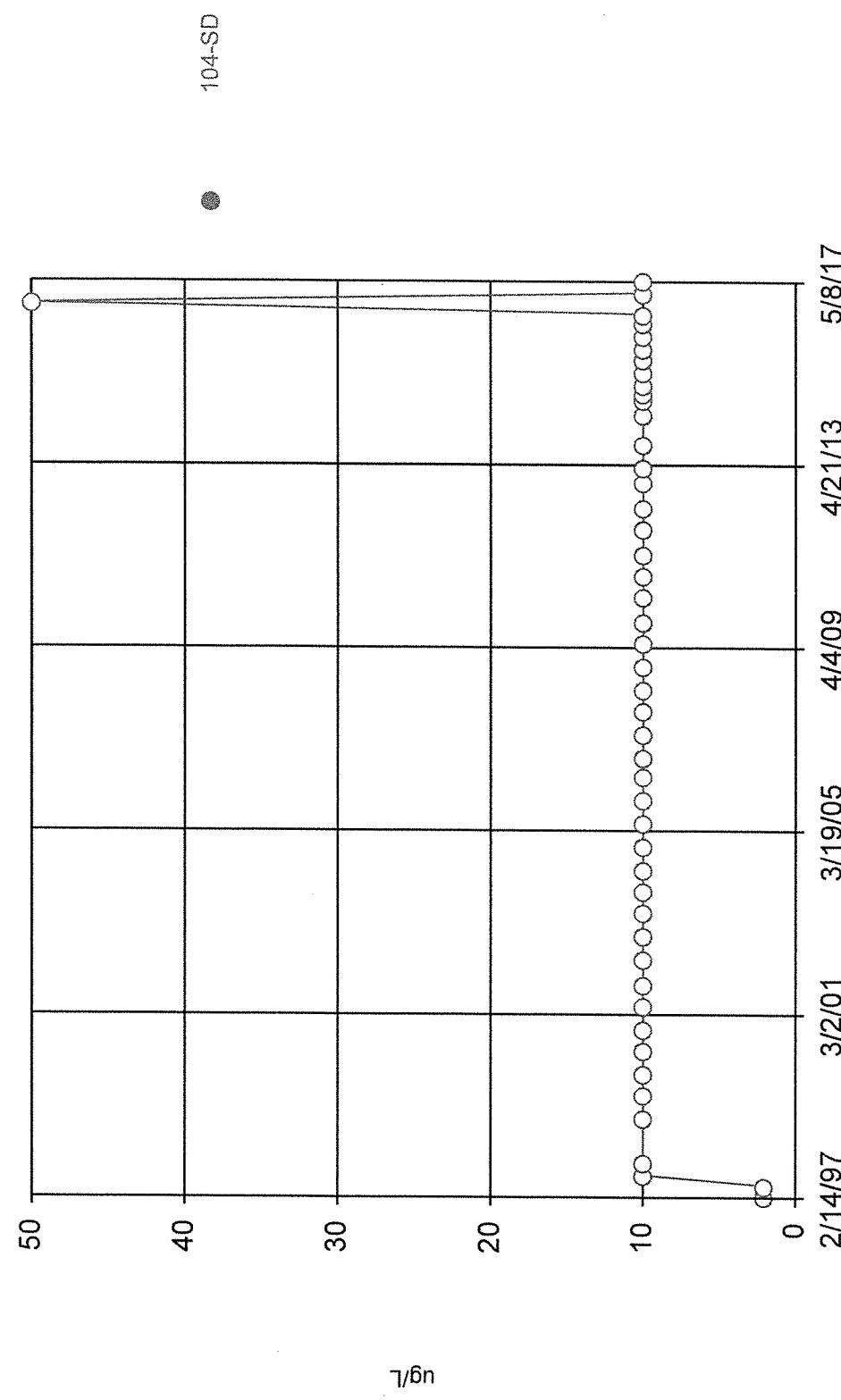
Time Series



Constituent: Benzene Analysis Run 7/12/2017 12:25 AM
Client: RSI Data: Bridgeton LF
Bridgeton LF

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

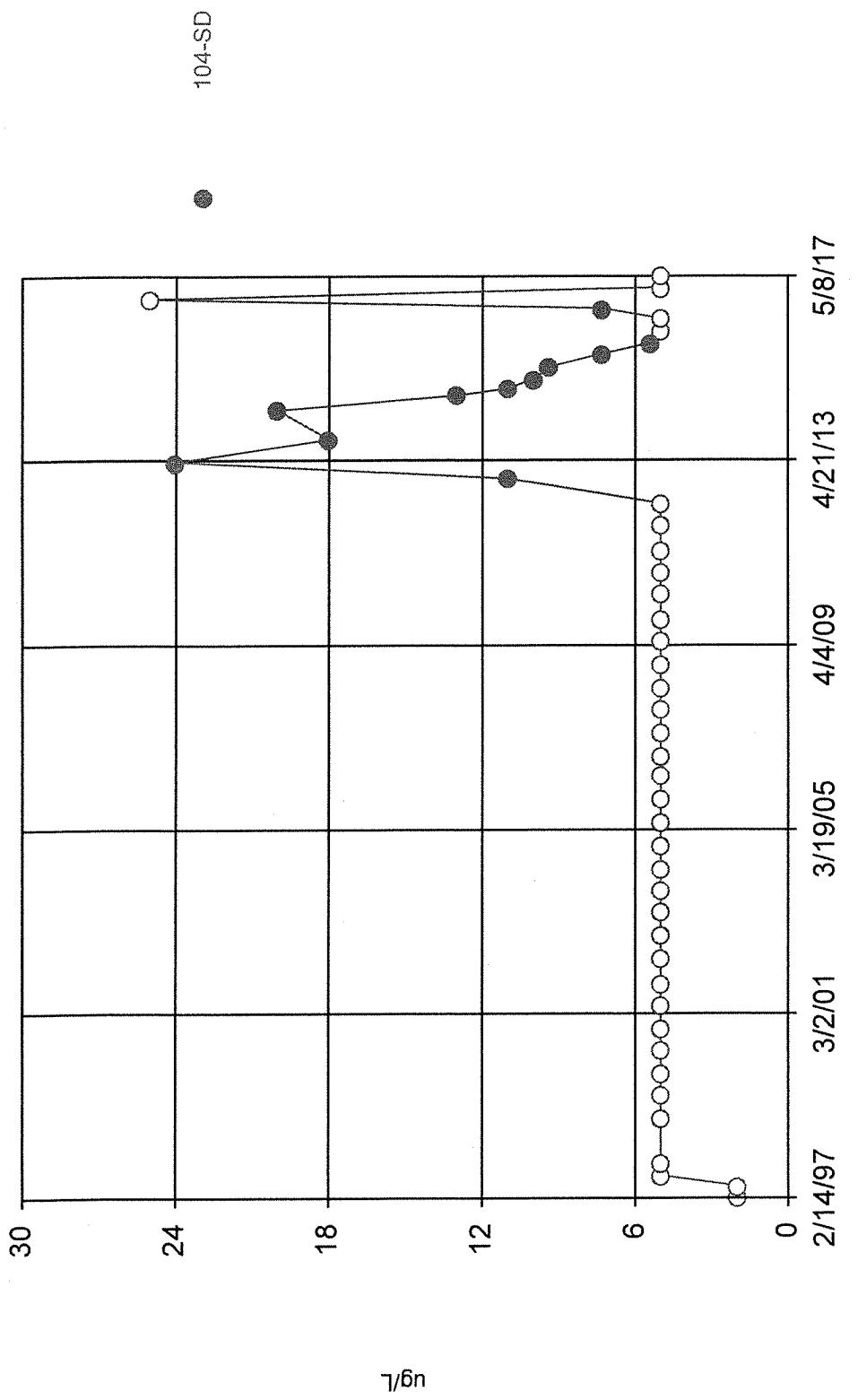
Time Series



Constituent: Chloroethane Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

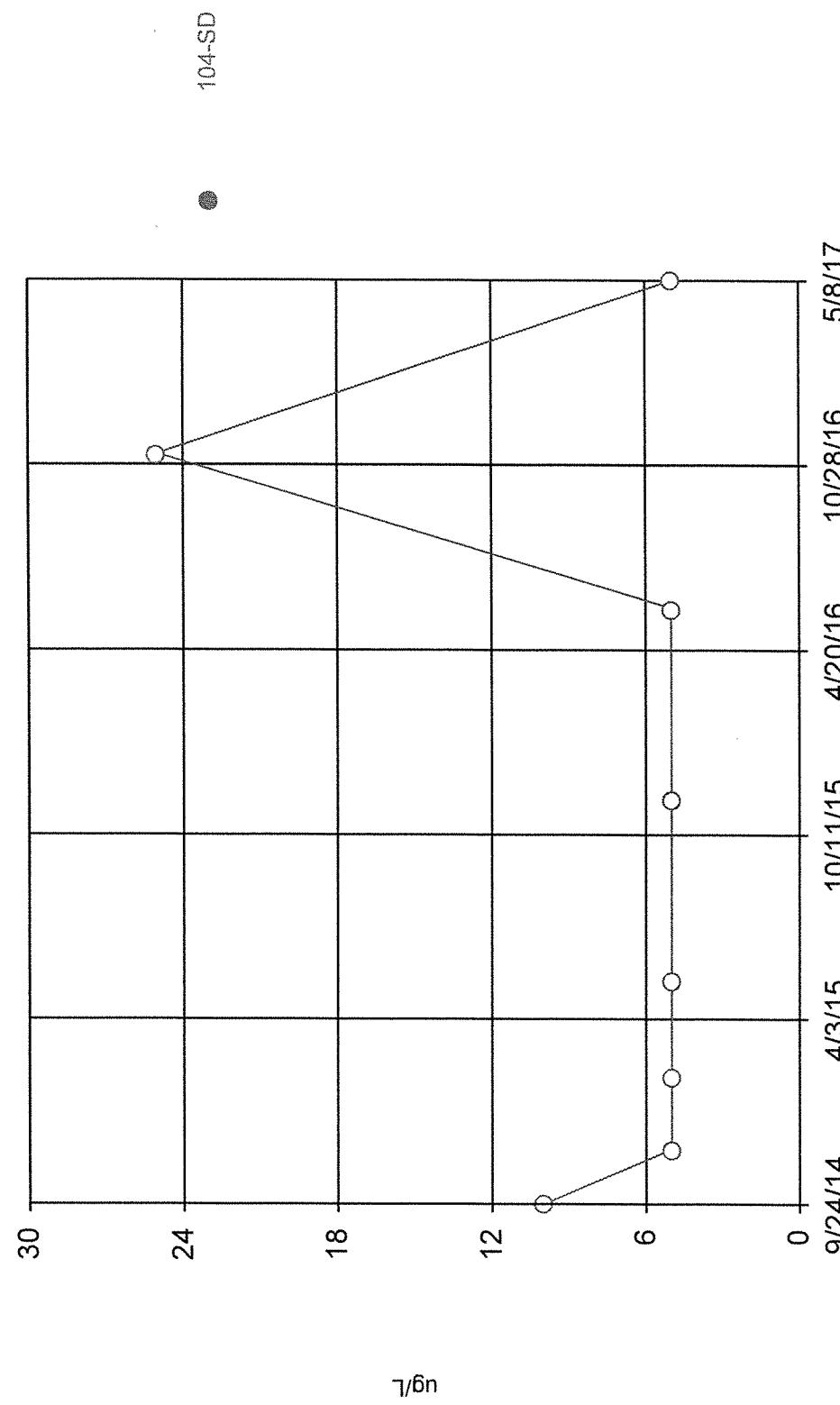
Time Series



Constituent: Ethylbenzene Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

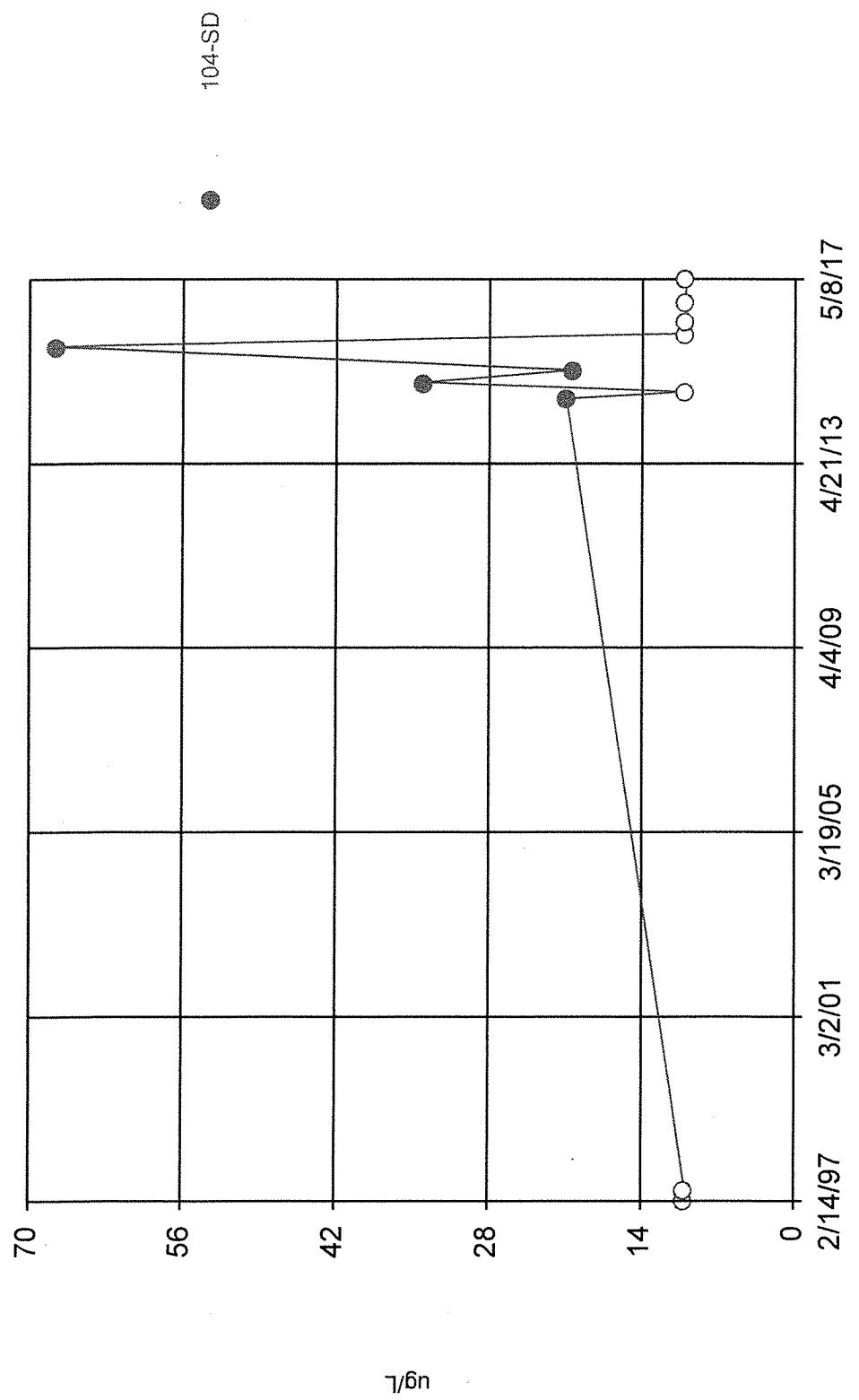
Time Series



Constituent: Isopropylbenzene Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

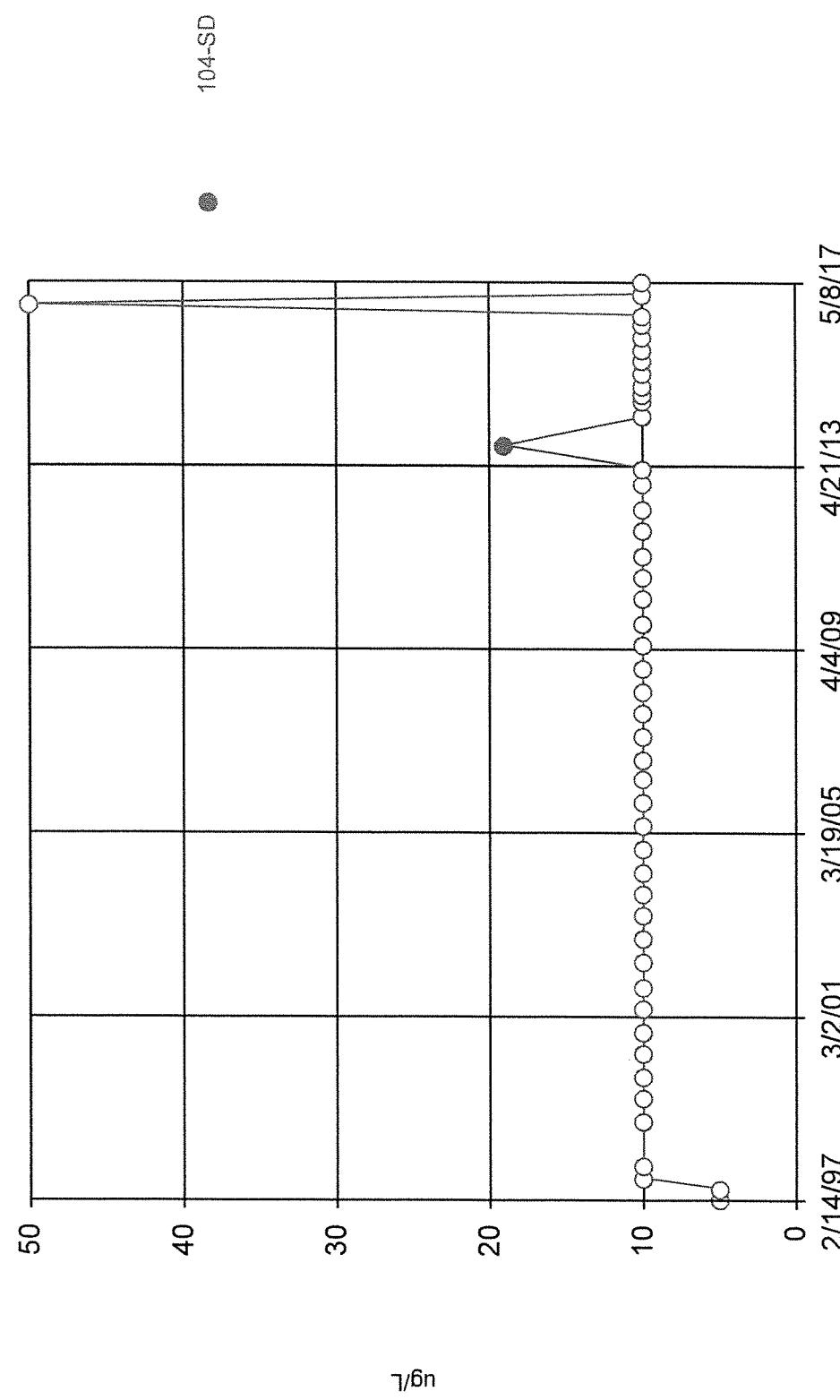
Time Series



Constituent: m+p-Cresols Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

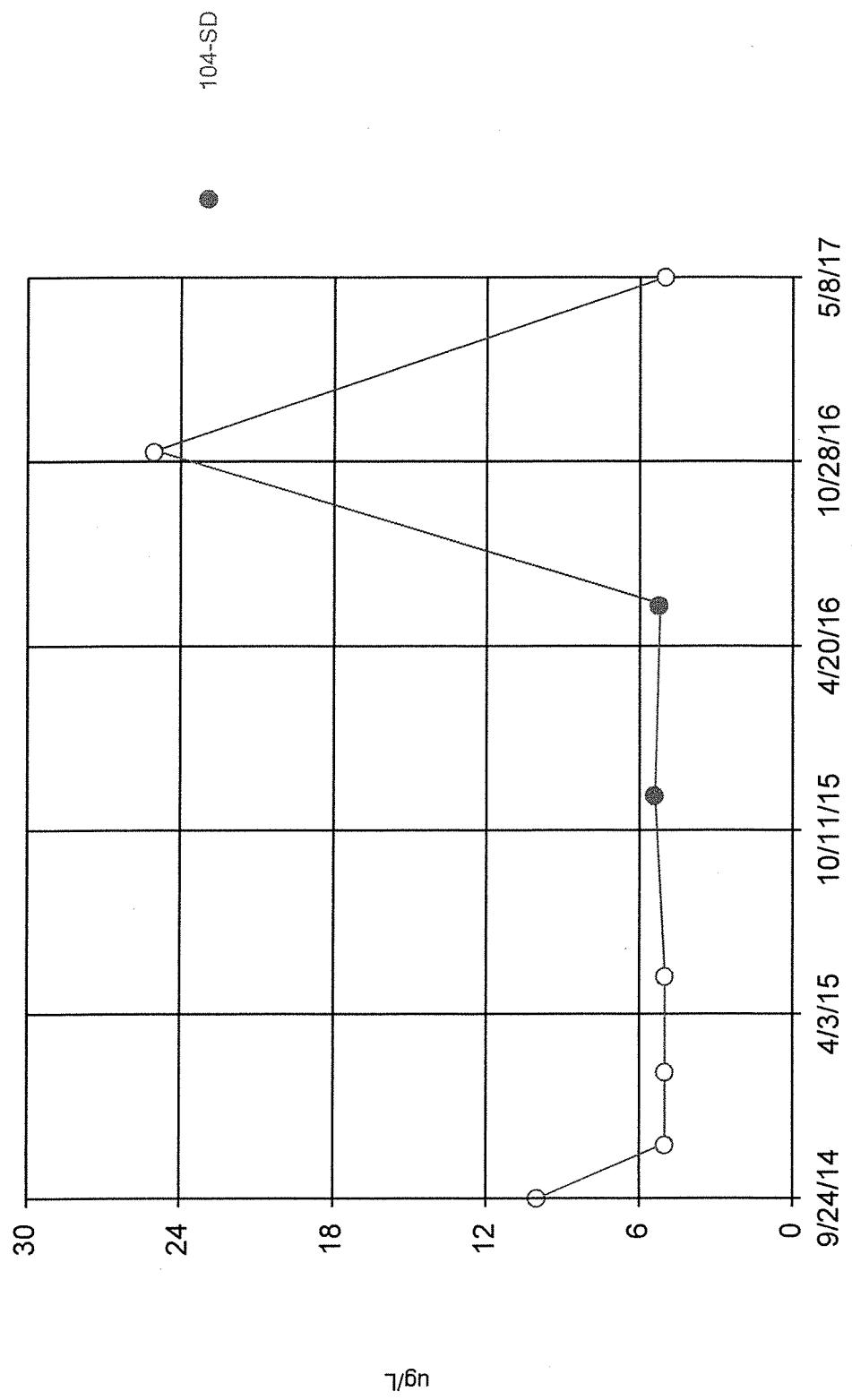
Time Series



Constituent: Methyl Butyl Ketone [2-Hexanone] Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Hollow symbols indicate censored values.

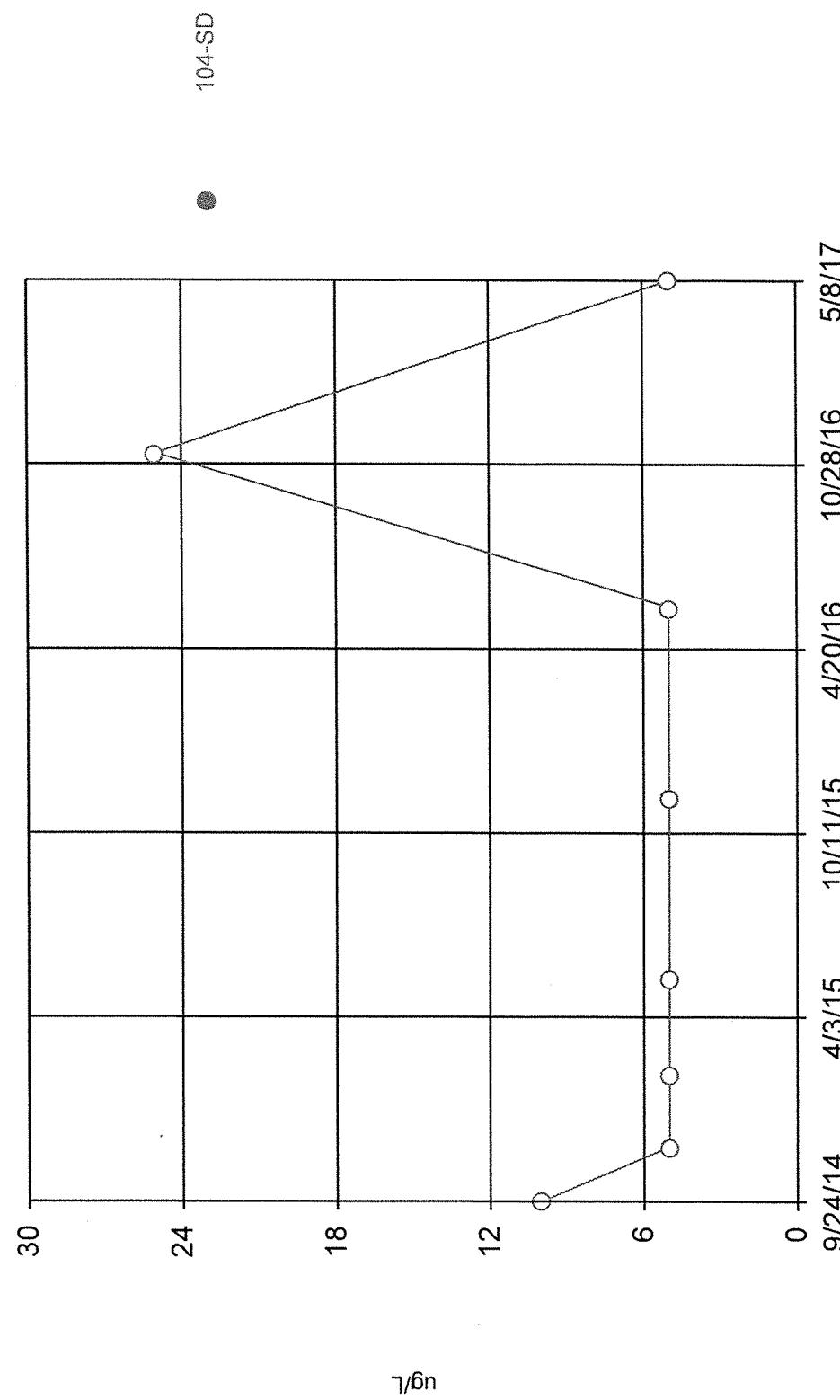
Time Series



Constituent: Methyl-tert-butyl ether Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

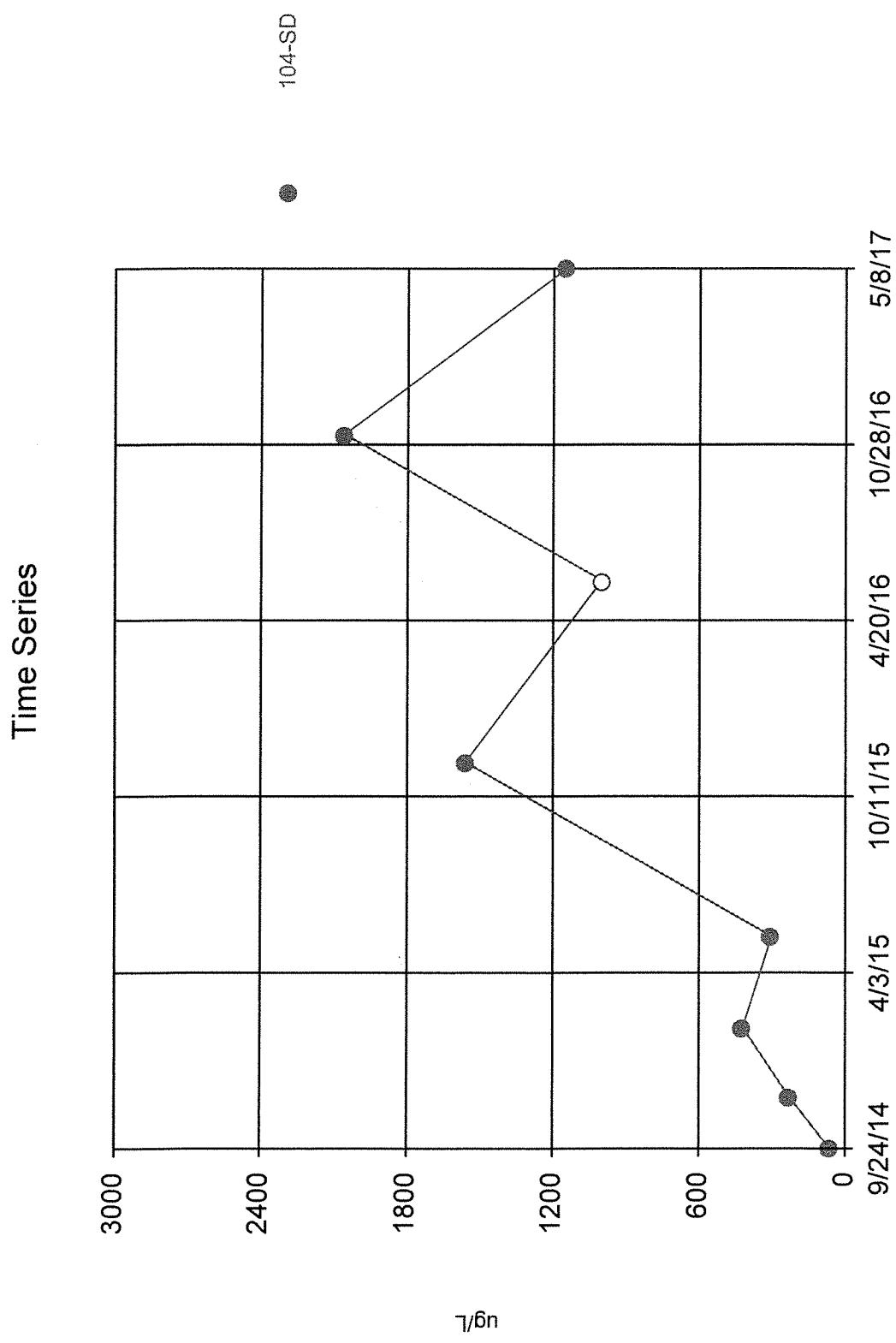
Sanitas™ v.9.5.32 Software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Time Series



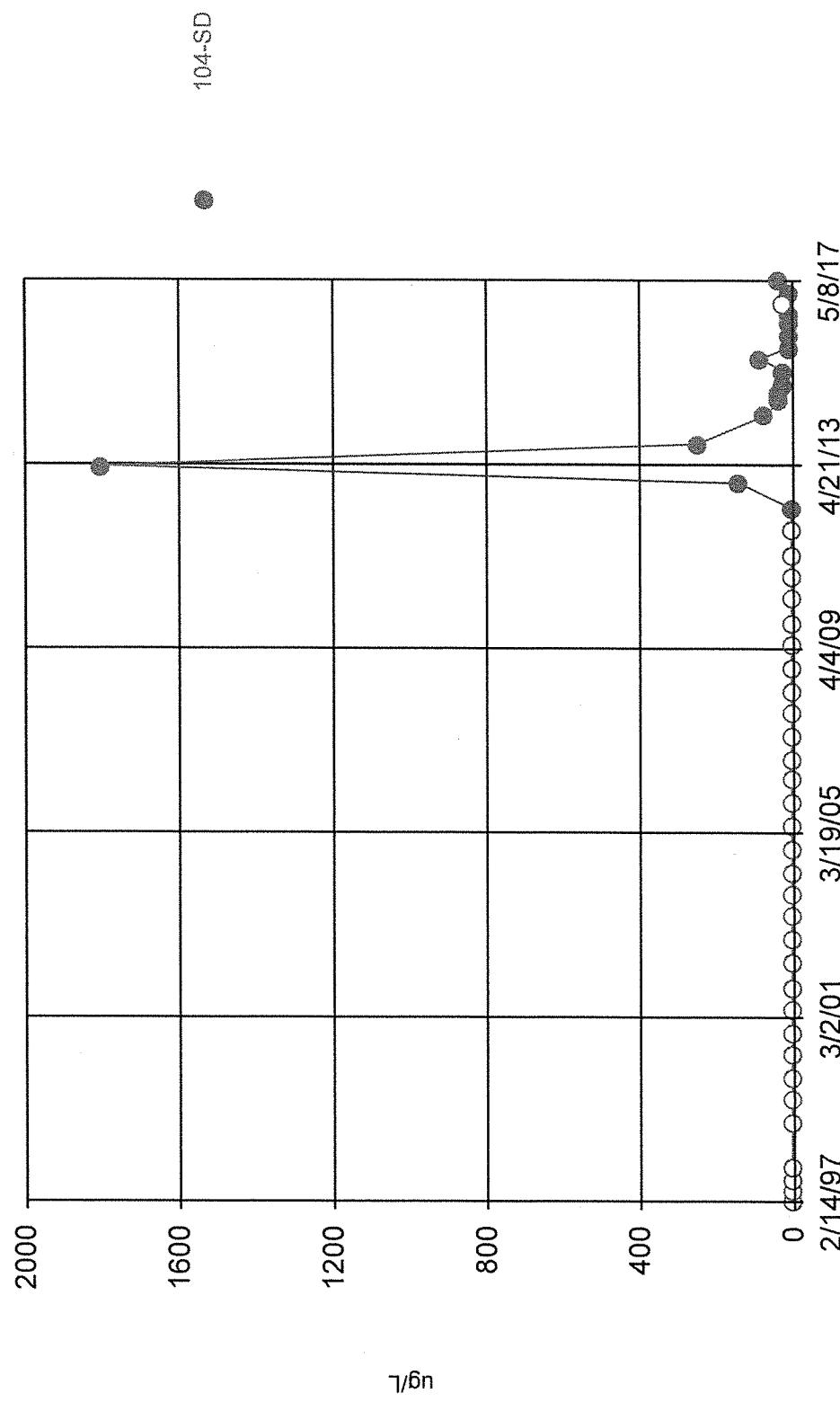
Constituent: p-Isopropyltoluene Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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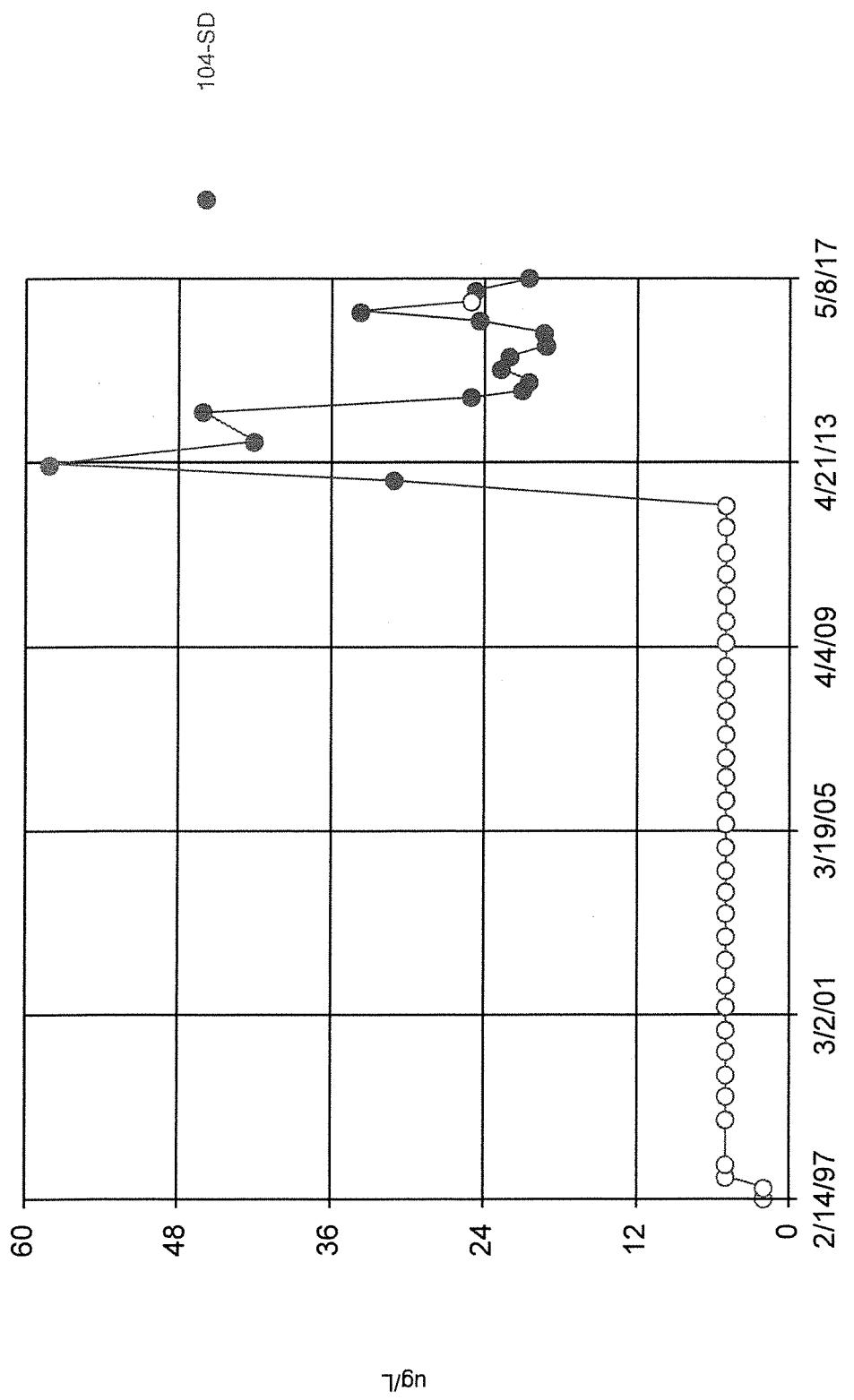
Time Series



Constituent: Toluene Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

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Time Series



Constituent: Xylenes Total Analysis Run 7/12/2017 12:25 AM
Bridgeton LF Client: RSI Data: Bridgeton LF

**APPENDIX F
LABORATORY ANALYTICAL REPORT**



Pace Analytical Services, LLC
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4860 Blazer Parkway
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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 31, 2017

Environmental Manager
Bridgeton Landfill LLC
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Dear Environmental Manager:

Enclosed are the analytical results for sample(s) received by the laboratory between May 04, 2017 and May 16, 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,

A handwritten signature in black ink that reads "Christie Sarkan".

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 2017Q2 DMP Sampling
Pace Project No.: 50170228

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 WV Certification #: 98019

Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2016-075
Texas Certification #: T104704355-16-10
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-16-00257

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SAMPLE SUMMARY

Project: Bridgeton 2017Q2 DMP Sampling
 Pace Project No.: 50170228

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50170228001	PZ-111-SD	Water	05/02/17 09:07	05/04/17 08:30
50170228002	PZ-109-SS	Water	05/02/17 10:33	05/04/17 08:30
50170228003	PZ-210-SD	Water	05/02/17 12:11	05/04/17 08:30
50170228004	PZ-210-SS	Water	05/02/17 14:22	05/04/17 08:30
50170228005	PZ-211-SD	Water	05/02/17 15:45	05/04/17 08:30
50170228006	PZ-211-SS	Water	05/02/17 16:57	05/04/17 08:30
50170228007	PZ-209-SD	Water	05/03/17 08:49	05/04/17 08:30
50170228008	PZ-209-SS	Water	05/03/17 11:02	05/04/17 08:30
50170228009	Trip Blank	Water	05/03/17 08:00	05/04/17 08:30
50170228010	PZ-205-SS	Water	05/04/17 15:33	05/06/17 08:45
50170228011	PZ-205-SS DUP	Water	05/04/17 15:33	05/06/17 08:45
50170228012	PZ-106-SD	Water	05/04/17 16:52	05/06/17 08:45
50170228013	PZ-106-SS	Water	05/04/17 17:53	05/06/17 08:45
50170228014	PZ-100-SD	Water	05/05/17 09:04	05/06/17 08:45
50170228015	PZ-100-SS	Water	05/05/17 09:49	05/06/17 08:45
50170228016	PZ-201A-SS	Water	05/05/17 10:43	05/06/17 08:45
50170228017	PZ-105-SS	Water	05/05/17 12:19	05/06/17 08:45
50170228018	Trip Blank	Water	05/05/17 08:00	05/06/17 08:45
50170228019	FB @ PZ-104-KS	Water	05/08/17 08:40	05/10/17 08:35
50170228020	PZ-104-KS	Water	05/08/17 10:20	05/10/17 08:35
50170228021	PZ-104-SD	Water	05/08/17 12:03	05/10/17 08:35
50170228022	PZ-104-SS	Water	05/08/17 14:36	05/10/17 08:35
50170228023	Trip Blank	Water	05/08/17 08:00	05/10/17 08:35
50171104001	PZ-115-SS	Water	05/15/17 08:28	05/16/17 08:30
50171104002	PZ-114-AS	Water	05/15/17 09:23	05/16/17 08:30
50171104003	Trip Blank	Water	05/15/17 08:00	05/16/17 08:30

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228001	PZ-111-SD	EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	KAV	1
50170228002	PZ-109-SS	EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	ALA	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	NPW	2
		EPA 9056	KAV	1
50170228003	PZ-210-SD	EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228004	PZ-210-SS	SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	NPW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
50170228005	PZ-211-SD	EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	NPW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
50170228006	PZ-211-SS	EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	NPW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228007	PZ-209-SD	EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	NPW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228008	PZ-209-SS	EPA 8082	NPW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	SKK	1
		EPA 353.2	ZM	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228009	Trip Blank	EPA 8260	ALA	57
50170228010	PZ-205-SS	EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	CAP	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228011	PZ-205-SS DUP	EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	CAP	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228012	PZ-106-SD	EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	CAP	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228013	PZ-106-SS	EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	CAP	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
50170228014	PZ-100-SD	SM 5310C	JRB	1
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	ALA	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	KAV	1
50170228015	PZ-100-SS	EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	ALA	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228016	PZ-201A-SS	SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	ALA	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
50170228017	PZ-105-SS	SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	ALA	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
50170228018	Trip Blank	SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228019	FB @ PZ-104-KS	EPA 8260	ALA	50
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8260	ALA	50
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50170228020	PZ-104-KS	SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	BJW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	TPD	1
50170228021	PZ-104-SD	EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	BJW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	EJS	1
50170228022	PZ-104-SS	EPA 410.4	SKK	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
		EPA 8082	BJW	2
		EPA 9056	KAV	1
		EPA 9056	KAV	3
		EPA 6010	FRW	11
		EPA 6020	CAW	11

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470	JGJ	1
		EPA 8270	TBP	8
		EPA 8260	ALA	57
		SM 2540C	EJS	1
		EPA 410.4	SKK	1
		SM 4500-S2-D	TPD	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50170228023	Trip Blank	EPA 8260	ALA	57
50171104001	PZ-115-SS	EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	PTH	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50171104002	PZ-114-AS	EPA 9056	KAV	3
		EPA 6010	MJC	11
		EPA 6020	CAW	11
		EPA 7470	ILP	1
		EPA 8260	PTH	50
		SM 2540C	MLS	1
		EPA 410.4	SKK	1
		EPA 353.2	ZM	1
		EPA 365.1	GWA	1
		SM 4500-NH3 G	JRB	1
		SM 5310C	JRB	1
50171104003	Trip Blank	EPA 8260	PTH	50

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228001	PZ-111-SD					
EPA 9056	Field pH	7.06	Std. Units	05/02/17 09:07		
EPA 9056	Field Temperature	16.8	deg C	05/02/17 09:07		
EPA 9056	Field Specific Conductance	827	umhos/cm	05/02/17 09:07		
EPA 6010	Field Oxidation Potential	-34	mV	05/02/17 09:07		
EPA 6010	Oxygen, Dissolved	0.85	mg/L	05/02/17 09:07		
EPA 6010	Field Turbidity	1.35	NTU	05/02/17 09:07		
EPA 6010	Total Well Depth	197.08	feet	05/02/17 09:07		
EPA 6010	Elevation Water Level	430.38	ft/msl	05/02/17 09:07		
EPA 6010	Collar Elevation	466.46	ft/msl	05/02/17 09:07		
EPA 6010	Depth to Water	36.08	feet	05/02/17 09:07		
EPA 9056	Chloride	24.1	mg/L	2.5	05/11/17 02:49	
EPA 9056	Fluoride	2.0	mg/L	0.10	05/11/17 02:30	
EPA 9056	Sulfate	56.9	mg/L	2.5	05/11/17 02:49	
EPA 6010	Barium	105	ug/L	10.0	05/11/17 10:49	
EPA 6010	Calcium	89900	ug/L	500	05/11/17 10:49	
EPA 6010	Iron	849	ug/L	50.0	05/11/17 10:49	
EPA 6010	Magnesium	52400	ug/L	500	05/11/17 10:49	
EPA 6010	Manganese	15.3	ug/L	5.0	05/11/17 10:49	
EPA 6010	Sodium	18200	ug/L	1000	05/11/17 10:49	
EPA 6010	Total Hardness by 2340B	440000	ug/L	1000	05/11/17 10:49	
SM 2540C	Total Dissolved Solids	574	mg/L	10.0	05/08/17 08:39	
50170228002	PZ-109-SS					
EPA 9056	Field pH	6.97	Std. Units	05/02/17 10:33		
EPA 9056	Field Temperature	20.3	deg C	05/02/17 10:33		
EPA 9056	Field Specific Conductance	769	umhos/cm	05/02/17 10:33		
EPA 6010	Field Oxidation Potential	95	mV	05/02/17 10:33		
EPA 6010	Oxygen, Dissolved	1.08	mg/L	05/02/17 10:33		
EPA 6010	Field Turbidity	1.75	NTU	05/02/17 10:33		
EPA 6010	Total Well Depth	130.98	feet	05/02/17 10:33		
EPA 6010	Elevation Water Level	439.52	ft/msl	05/02/17 10:33		
EPA 6010	Collar Elevation	460.19	ft/msl	05/02/17 10:33		
EPA 6010	Depth to Water	20.67	feet	05/02/17 10:33		
EPA 9056	Chloride	3.7	mg/L	0.25	05/11/17 03:08	
EPA 9056	Fluoride	2.3	mg/L	0.10	05/11/17 03:08	
EPA 9056	Sulfate	22.3	mg/L	0.25	05/11/17 03:08	
EPA 6010	Barium	57.3	ug/L	10.0	05/11/17 10:51	
EPA 6010	Boron	176	ug/L	100	05/11/17 10:51	
EPA 6010	Calcium	89500	ug/L	500	05/11/17 10:51	
EPA 6010	Magnesium	51500	ug/L	500	05/11/17 10:51	
EPA 6010	Sodium	9740	ug/L	1000	05/11/17 10:51	
EPA 6010	Total Hardness by 2340B	436000	ug/L	1000	05/11/17 10:51	
SM 2540C	Total Dissolved Solids	444	mg/L	10.0	05/08/17 08:40	
SM 5310C	Total Organic Carbon	1.0	mg/L	1.0	05/12/17 12:02	
50170228003	PZ-210-SD					
EPA 9056	Field pH	7.06	Std. Units	05/02/17 12:11		
EPA 9056	Field Temperature	16.6	deg C	05/02/17 12:11		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50170228003	PZ-210-SD						
	Field Specific Conductance	982	umhos/cm		05/02/17 12:11		
	Field Oxidation Potential	-118	mV		05/02/17 12:11		
	Oxygen, Dissolved	0.23	mg/L		05/02/17 12:11		
	Field Turbidity	0.52	NTU		05/02/17 12:11		
	Total Well Depth	101.60	feet		05/02/17 12:11		
	Elevation Water Level	461.85	ft/msl		05/02/17 12:11		
	Collar Elevation	487.00	ft/msl		05/02/17 12:11		
	Depth to Water	25.15	feet		05/02/17 12:11		
EPA 9056	Chloride	32.0	mg/L	2.5	05/11/17 04:04		
EPA 9056	Fluoride	1.8	mg/L	0.10	05/11/17 03:45		
EPA 9056	Sulfate	34.0	mg/L	2.5	05/11/17 04:04		
EPA 6010	Barium	69.4	ug/L	10.0	05/11/17 10:58		
EPA 6010	Boron	175	ug/L	100	05/11/17 10:58		
EPA 6010	Calcium	74700	ug/L	500	05/11/17 10:58		
EPA 6010	Iron	3200	ug/L	50.0	05/11/17 10:58		
EPA 6010	Magnesium	46000	ug/L	500	05/11/17 10:58		
EPA 6010	Manganese	78.9	ug/L	5.0	05/11/17 10:58		
EPA 6010	Sodium	69300	ug/L	1000	05/11/17 10:58		
EPA 6010	Total Hardness by 2340B	376000	ug/L	1000	05/11/17 10:58		
SM 2540C	Total Dissolved Solids	545	mg/L	10.0	05/08/17 08:42		
EPA 410.4	Chemical Oxygen Demand	17.9	mg/L	10.0	05/15/17 13:11		
EPA 365.1	Phosphorus	0.077	mg/L	0.050	05/17/17 19:04		
SM 4500-NH3 G	Nitrogen, Ammonia	1.9	mg/L	0.10	05/12/17 14:31		
SM 5310C	Total Organic Carbon	6.4	mg/L	1.0	05/12/17 12:33		
50170228004	PZ-210-SS						
	Field pH	7.04	Std. Units		05/02/17 14:22		
	Field Temperature	17.0	deg C		05/02/17 14:22		
	Field Specific Conductance	785	umhos/cm		05/02/17 14:22		
	Field Oxidation Potential	-113	mV		05/02/17 14:22		
	Oxygen, Dissolved	0.21	mg/L		05/02/17 14:22		
	Field Turbidity	0.17	NTU		05/02/17 14:22		
	Total Well Depth	101.46	feet		05/02/17 14:22		
	Elevation Water Level	462.36	ft/msl		05/02/17 14:22		
	Collar Elevation	486.90	ft/msl		05/02/17 14:22		
	Depth to Water	24.54	feet		05/02/17 14:22		
EPA 9056	Chloride	20.3	mg/L	2.5	05/11/17 04:42		
EPA 9056	Fluoride	0.68	mg/L	0.10	05/11/17 04:23		
EPA 9056	Sulfate	6.7	mg/L	0.25	05/11/17 04:23		
EPA 6010	Barium	83.3	ug/L	10.0	05/11/17 11:00		
EPA 6010	Boron	112	ug/L	100	05/11/17 11:00		
EPA 6010	Calcium	86000	ug/L	500	05/11/17 11:00		
EPA 6010	Iron	1230	ug/L	50.0	05/11/17 11:00		
EPA 6010	Magnesium	44900	ug/L	500	05/11/17 11:00		
EPA 6010	Manganese	76.7	ug/L	5.0	05/11/17 11:00		
EPA 6010	Sodium	18900	ug/L	1000	05/11/17 11:00		
EPA 6010	Total Hardness by 2340B	400000	ug/L	1000	05/11/17 11:00		
SM 2540C	Total Dissolved Solids	453	mg/L	10.0	05/08/17 08:43		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228004	PZ-210-SS					
EPA 410.4	Chemical Oxygen Demand	26.6	mg/L	10.0	05/15/17 13:11	
SM 5310C	Total Organic Carbon	6.3	mg/L	1.0	05/18/17 07:15	
50170228005	PZ-211-SD					
	Field pH	7.15	Std. Units		05/02/17 15:45	
	Field Temperature	15.8	deg C		05/02/17 15:45	
	Field Specific Conductance	944	umhos/cm		05/02/17 15:45	
	Field Oxidation Potential	-239	mV		05/02/17 15:45	
	Oxygen, Dissolved	0.94	mg/L		05/02/17 15:45	
	Field Turbidity	4.12	NTU		05/02/17 15:45	
	Total Well Depth	99.02	feet		05/02/17 15:45	
	Elevation Water Level	465.96	ft/msl		05/02/17 15:45	
	Collar Elevation	487.46	ft/msl		05/02/17 15:45	
	Depth to Water	21.50	feet		05/02/17 15:45	
EPA 9056	Chloride	10.2	mg/L	0.25	05/11/17 05:00	
EPA 9056	Fluoride	2.1	mg/L	0.10	05/11/17 05:00	
EPA 9056	Sulfate	44.4	mg/L	2.5	05/11/17 05:19	
EPA 6010	Barium	39.7	ug/L	10.0	05/11/17 11:02	
EPA 6010	Boron	131	ug/L	100	05/11/17 11:02	
EPA 6010	Calcium	58300	ug/L	500	05/11/17 11:02	
EPA 6010	Iron	174	ug/L	50.0	05/11/17 11:02	
EPA 6010	Magnesium	28600	ug/L	500	05/11/17 11:02	
EPA 6010	Manganese	48.6	ug/L	5.0	05/11/17 11:02	
EPA 6010	Sodium	114000	ug/L	1000	05/11/17 11:02	
EPA 6010	Total Hardness by 2340B	263000	ug/L	1000	05/11/17 11:02	
SM 2540C	Total Dissolved Solids	471	mg/L	10.0	05/08/17 08:43	
EPA 410.4	Chemical Oxygen Demand	18.0	mg/L	10.0	05/15/17 13:11	
EPA 365.1	Phosphorus	0.088	mg/L	0.050	05/17/17 19:05	
SM 4500-NH3 G	Nitrogen, Ammonia	0.45	mg/L	0.10	05/12/17 14:33	
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	05/18/17 07:45	
50170228006	PZ-211-SS					
	Field pH	7.60	Std. Units		05/02/17 16:57	
	Field Temperature	16.0	deg C		05/02/17 16:57	
	Field Specific Conductance	690	umhos/cm		05/02/17 16:57	
	Field Oxidation Potential	-215	mV		05/02/17 16:57	
	Oxygen, Dissolved	0.27	mg/L		05/02/17 16:57	
	Field Turbidity	4.14	NTU		05/02/17 16:57	
	Total Well Depth	98.12	feet		05/02/17 16:57	
	Elevation Water Level	467.98	ft/msl		05/02/17 16:57	
	Collar Elevation	487.41	ft/msl		05/02/17 16:57	
	Depth to Water	19.43	feet		05/02/17 16:57	
EPA 9056	Chloride	8.6	mg/L	0.25	05/10/17 17:25	
EPA 9056	Fluoride	1.7	mg/L	0.10	05/10/17 17:25	
EPA 9056	Sulfate	31.7	mg/L	2.5	05/10/17 17:44	
EPA 6010	Barium	63.1	ug/L	10.0	05/11/17 11:04	
EPA 6010	Boron	419	ug/L	100	05/11/17 11:04	
EPA 6010	Calcium	66100	ug/L	500	05/11/17 11:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50170228006	PZ-211-SS						
EPA 6010	Iron	934	ug/L	50.0	05/11/17 11:04		
EPA 6010	Magnesium	41300	ug/L	500	05/11/17 11:04		
EPA 6010	Manganese	60.3	ug/L	5.0	05/11/17 11:04		
EPA 6010	Sodium	23700	ug/L	1000	05/11/17 11:04		
EPA 6010	Total Hardness by 2340B	335000	ug/L	1000	05/11/17 11:04		
SM 2540C	Total Dissolved Solids	415	mg/L	10.0	05/08/17 08:44		
SM 4500-NH3 G	Nitrogen, Ammonia	0.10	mg/L	0.10	05/12/17 14:34		
50170228007	PZ-209-SD						
	Field pH	7.27	Std. Units		05/03/17 09:49		
	Field Temperature	13.5	deg C		05/03/17 09:49		
	Field Specific Conductance	826	umhos/cm		05/03/17 09:49		
	Field Oxidation Potential	-245	mV		05/03/17 09:49		
	Oxygen, Dissolved	0.33	mg/L		05/03/17 09:49		
	Field Turbidity	1.35	NTU		05/03/17 09:49		
	Total Well Depth	101.40	feet		05/03/17 09:49		
	Elevation Water Level	466.96	ft/msl		05/03/17 09:49		
	Collar Elevation	489.58	ft/msl		05/03/17 09:49		
	Depth to Water	22.62	feet		05/03/17 09:49		
EPA 9056	Chloride	10.3	mg/L	0.25	05/10/17 18:03		
EPA 9056	Fluoride	2.0	mg/L	0.10	05/10/17 18:03		
EPA 9056	Sulfate	29.9	mg/L	2.5	05/10/17 18:21		
EPA 6010	Barium	49.0	ug/L	10.0	05/11/17 11:06		
EPA 6010	Calcium	68100	ug/L	500	05/11/17 11:06		
EPA 6010	Iron	966	ug/L	50.0	05/11/17 11:06		
EPA 6010	Magnesium	41100	ug/L	500	05/11/17 11:06		
EPA 6010	Manganese	131	ug/L	5.0	05/11/17 11:06		
EPA 6010	Sodium	57700	ug/L	1000	05/11/17 11:06		
EPA 6010	Total Hardness by 2340B	339000	ug/L	1000	05/11/17 11:06		
SM 2540C	Total Dissolved Solids	457	mg/L	10.0	05/09/17 07:01		
50170228008	PZ-209-SS						
	Field pH	7.31	Std. Units		05/03/17 11:02		
	Field Temperature	13.6	deg C		05/03/17 11:02		
	Field Specific Conductance	709	umhos/cm		05/03/17 11:02		
	Field Oxidation Potential	-261	mV		05/03/17 11:02		
	Oxygen, Dissolved	0.29	mg/L		05/03/17 11:02		
	Field Turbidity	3.73	NTU		05/03/17 11:02		
	Total Well Depth	99.89	feet		05/03/17 11:02		
	Elevation Water Level	468.23	ft/msl		05/03/17 11:02		
	Collar Elevation	489.68	ft/msl		05/03/17 11:02		
	Depth to Water	21.45	feet		05/03/17 11:02		
EPA 9056	Chloride	2.8	mg/L	0.25	05/10/17 19:18		
EPA 9056	Fluoride	1.6	mg/L	0.10	05/10/17 19:18		
EPA 9056	Sulfate	19.0	mg/L	0.25	05/10/17 19:18		
EPA 6010	Barium	84.0	ug/L	10.0	05/11/17 11:09		
EPA 6010	Boron	271	ug/L	100	05/11/17 11:09		
EPA 6010	Calcium	71600	ug/L	500	05/11/17 11:09		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228008	PZ-209-SS					
EPA 6010	Iron	474	ug/L	50.0	05/11/17 11:09	
EPA 6010	Magnesium	50200	ug/L	500	05/11/17 11:09	
EPA 6010	Manganese	61.0	ug/L	5.0	05/11/17 11:09	
EPA 6010	Sodium	11400	ug/L	1000	05/11/17 11:09	
EPA 6010	Total Hardness by 2340B	386000	ug/L	1000	05/11/17 11:09	
SM 2540C	Total Dissolved Solids	374	mg/L	10.0	05/09/17 07:01	
SM 4500-S2-D	Sulfide	2.1	mg/L	2.0	05/04/17 17:41	
50170228010	PZ-205-SS					
	Field pH	7.03	Std. Units		05/04/17 15:33	
	Field Temperature	18.4	deg C		05/04/17 15:33	
	Field Specific Conductance	887	umhos/cm		05/04/17 15:33	
	Field Oxidation Potential	111	mV		05/04/17 15:33	
	Oxygen, Dissolved	1.92	mg/L		05/04/17 15:33	
	Field Turbidity	4.59	NTU		05/04/17 15:33	
	Total Well Depth	103.61	feet		05/04/17 15:33	
	Elevation Water Level	435.83	ft/msl		05/04/17 15:33	
	Collar Elevation	465.83	ft/msl		05/04/17 15:33	
	Depth to Water	30.00	feet		05/04/17 15:33	
EPA 9056	Chloride	32.0	mg/L	2.5	05/11/17 15:05	
EPA 9056	Fluoride	0.45	mg/L	0.10	05/11/17 14:46	
EPA 9056	Sulfate	52.2	mg/L	2.5	05/11/17 15:05	
EPA 6010	Barium	144	ug/L	10.0	05/12/17 10:39	
EPA 6010	Calcium	100000	ug/L	500	05/12/17 10:39	
EPA 6010	Iron	275	ug/L	50.0	05/12/17 10:39	
EPA 6010	Magnesium	55600	ug/L	500	05/12/17 10:39	
EPA 6010	Sodium	15700	ug/L	1000	05/12/17 10:39	
EPA 6010	Total Hardness by 2340B	480000	ug/L	1000	05/12/17 10:39	
SM 2540C	Total Dissolved Solids	493	mg/L	10.0	05/11/17 07:41	
SM 5310C	Total Organic Carbon	1.1	mg/L	1.0	05/16/17 19:35	
50170228011	PZ-205-SS DUP					
EPA 9056	Chloride	32.0	mg/L	2.5	05/11/17 18:51	
EPA 9056	Fluoride	0.43	mg/L	0.10	05/11/17 18:32	
EPA 9056	Sulfate	51.9	mg/L	2.5	05/11/17 18:51	
EPA 6010	Barium	147	ug/L	10.0	05/12/17 10:41	
EPA 6010	Calcium	104000	ug/L	500	05/12/17 10:41	
EPA 6010	Iron	275	ug/L	50.0	05/12/17 10:41	
EPA 6010	Magnesium	56400	ug/L	500	05/12/17 10:41	
EPA 6010	Sodium	15900	ug/L	1000	05/12/17 10:41	
EPA 6010	Total Hardness by 2340B	491000	ug/L	1000	05/12/17 10:41	
SM 2540C	Total Dissolved Solids	515	mg/L	10.0	05/10/17 07:36	
SM 5310C	Total Organic Carbon	1.0	mg/L	1.0	05/16/17 20:06	
50170228012	PZ-106-SD					
	Field pH	6.90	Std. Units		05/04/17 16:52	
	Field Temperature	21.7	deg C		05/04/17 16:52	
	Field Specific Conductance	1570	umhos/cm		05/04/17 16:52	
	Field Oxidation Potential	-210	mV		05/04/17 16:52	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50170228012	PZ-106-SD						
	Oxygen, Dissolved	0.10	mg/L	05/04/17 16:52			
	Field Turbidity	0.82	NTU	05/04/17 16:52			
	Total Well Depth	196.45	feet	05/04/17 16:52			
	Elevation Water Level	449.74	ft/msl	05/04/17 16:52			
	Collar Elevation	463.36	ft/msl	05/04/17 16:52			
	Depth to Water	13.62	feet	05/04/17 16:52			
EPA 9056	Iodide	1.3	mg/L	0.50	05/09/17 18:36	N2	
EPA 9056	Chloride	131	mg/L	25.0	05/11/17 21:21		
EPA 9056	Fluoride	1.4	mg/L	0.10	05/11/17 20:24		
EPA 9056	Sulfate	53.5	mg/L	2.5	05/11/17 21:02		
EPA 6010	Barium	342	ug/L	10.0	05/12/17 10:43		
EPA 6010	Boron	544	ug/L	100	05/12/17 10:43		
EPA 6010	Calcium	96600	ug/L	500	05/12/17 10:43		
EPA 6010	Iron	1040	ug/L	50.0	05/12/17 10:43		
EPA 6010	Magnesium	57700	ug/L	500	05/12/17 10:43		
EPA 6010	Manganese	25.6	ug/L	5.0	05/12/17 10:43		
EPA 6010	Sodium	100000	ug/L	1000	05/12/17 10:43		
EPA 6010	Total Hardness by 2340B	479000	ug/L	1000	05/12/17 10:43		
SM 2540C	Total Dissolved Solids	772	mg/L	10.0	05/10/17 07:38		
EPA 410.4	Chemical Oxygen Demand	63.3	mg/L	10.0	05/16/17 19:31		
EPA 365.1	Phosphorus	0.059	mg/L	0.050	05/17/17 19:23		
SM 4500-NH3 G	Nitrogen, Ammonia	28.6	mg/L	1.0	05/17/17 14:22		
SM 5310C	Total Organic Carbon	19.0	mg/L	1.0	05/16/17 20:31		
50170228013	PZ-106-SS						
	Field pH	6.93	Std. Units	05/04/17 17:53			
	Field Temperature	21.4	deg C	05/04/17 17:53			
	Field Specific Conductance	987	umhos/cm	05/04/17 17:53			
	Field Oxidation Potential	-150	mV	05/04/17 17:53			
	Oxygen, Dissolved	0.12	mg/L	05/04/17 17:53			
	Field Turbidity	2.39	NTU	05/04/17 17:53			
	Total Well Depth	161.39	feet	05/04/17 17:53			
	Elevation Water Level	449.62	ft/msl	05/04/17 17:53			
	Collar Elevation	462.71	ft/msl	05/04/17 17:53			
	Depth to Water	13.09	feet	05/04/17 17:53			
EPA 9056	Chloride	43.6	mg/L	2.5	05/11/17 20:06		
EPA 9056	Fluoride	1.9	mg/L	0.10	05/11/17 19:47		
EPA 9056	Sulfate	46.1	mg/L	2.5	05/11/17 20:06		
EPA 6010	Barium	181	ug/L	10.0	05/12/17 10:45		
EPA 6010	Calcium	109000	ug/L	500	05/12/17 10:45		
EPA 6010	Iron	2440	ug/L	50.0	05/12/17 10:45		
EPA 6010	Magnesium	52300	ug/L	500	05/12/17 10:45		
EPA 6010	Manganese	16.6	ug/L	5.0	05/12/17 10:45		
EPA 6010	Sodium	30800	ug/L	1000	05/12/17 10:45		
EPA 6010	Total Hardness by 2340B	487000	ug/L	1000	05/12/17 10:45		
EPA 6020	Arsenic	6.4	ug/L	5.0	05/12/17 10:45		
SM 2540C	Total Dissolved Solids	546	mg/L	10.0	05/10/17 07:38		
EPA 410.4	Chemical Oxygen Demand	20.3	mg/L	10.0	05/16/17 19:31		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228013	PZ-106-SS					
SM 4500-NH3 G	Nitrogen, Ammonia	0.19	mg/L	0.10	05/17/17 14:23	
SM 5310C	Total Organic Carbon	6.0	mg/L	1.0	05/16/17 21:49	
50170228014	PZ-100-SD					
	Field pH	7.18	Std. Units		05/05/17 09:04	
	Field Temperature	16.0	deg C		05/05/17 09:04	
	Field Specific Conductance	609	umhos/cm		05/05/17 09:04	
	Field Oxidation Potential	-108	mV		05/05/17 09:04	
	Oxygen, Dissolved	0.35	mg/L		05/05/17 09:04	
	Field Turbidity	1.00	NTU		05/05/17 09:04	
	Total Well Depth	96.21	feet		05/05/17 09:04	
	Elevation Water Level	455.22	ft/msl		05/05/17 09:04	
	Collar Elevation	485.72	ft/msl		05/05/17 09:04	
	Depth to Water	30.50	feet		05/05/17 09:04	
EPA 9056	Chloride	1.6	mg/L	0.25	05/11/17 21:40	
EPA 9056	Fluoride	2.1	mg/L	0.10	05/11/17 21:40	
EPA 9056	Sulfate	9.6	mg/L	0.25	05/11/17 21:40	
EPA 6010	Barium	317	ug/L	10.0	05/12/17 10:48	
EPA 6010	Calcium	76100	ug/L	500	05/12/17 10:48	
EPA 6010	Iron	683	ug/L	50.0	05/12/17 10:48	
EPA 6010	Magnesium	34300	ug/L	500	05/12/17 10:48	
EPA 6010	Manganese	55.0	ug/L	5.0	05/12/17 10:48	
EPA 6010	Sodium	6520	ug/L	1000	05/12/17 10:48	
EPA 6010	Total Hardness by 2340B	331000	ug/L	1000	05/12/17 10:48	
SM 2540C	Total Dissolved Solids	312	mg/L	10.0	05/11/17 11:45	
SM 4500-NH3 G	Nitrogen, Ammonia	0.38	mg/L	0.10	05/17/17 13:39	
SM 5310C	Total Organic Carbon	1.0	mg/L	1.0	05/16/17 22:20	
50170228015	PZ-100-SS					
	Field pH	7.00	Std. Units		05/05/17 09:49	
	Field Temperature	16.5	deg C		05/05/17 09:49	
	Field Specific Conductance	779	umhos/cm		05/05/17 09:49	
	Field Oxidation Potential	88	mV		05/05/17 09:49	
	Oxygen, Dissolved	1.03	mg/L		05/05/17 09:49	
	Field Turbidity	2.01	NTU		05/05/17 09:49	
	Total Well Depth	89.33	feet		05/05/17 09:49	
	Elevation Water Level	456.43	ft/msl		05/05/17 09:49	
	Collar Elevation	485.75	ft/msl		05/05/17 09:49	
	Depth to Water	29.32	feet		05/05/17 09:49	
EPA 9056	Chloride	4.6	mg/L	0.25	05/11/17 21:58	
EPA 9056	Fluoride	0.62	mg/L	0.10	05/11/17 21:58	
EPA 9056	Sulfate	34.9	mg/L	2.5	05/11/17 22:17	
EPA 6010	Barium	68.5	ug/L	10.0	05/12/17 10:54	
EPA 6010	Boron	114	ug/L	100	05/12/17 10:54	
EPA 6010	Calcium	92300	ug/L	500	05/12/17 10:54	
EPA 6010	Magnesium	51100	ug/L	500	05/12/17 10:54	
EPA 6010	Nickel	10.6	ug/L	10.0	05/12/17 10:54	
EPA 6010	Sodium	10500	ug/L	1000	05/12/17 10:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50170228015	PZ-100-SS						
EPA 6010	Total Hardness by 2340B	441000	ug/L	1000	05/12/17 10:54		
SM 2540C	Total Dissolved Solids	426	mg/L	10.0	05/11/17 11:45		
EPA 410.4	Chemical Oxygen Demand	17.4	mg/L	10.0	05/16/17 19:31		
50170228016	PZ-201A-SS						
	Field pH	7.12	Std. Units		05/05/17 10:43		
	Field Temperature	16.3	deg C		05/05/17 10:43		
	Field Specific Conductance	759	umhos/cm		05/05/17 10:43		
	Field Oxidation Potential	179	mV		05/05/17 10:43		
	Oxygen, Dissolved	2.74	mg/L		05/05/17 10:43		
	Field Turbidity	1.96	NTU		05/05/17 10:43		
	Total Well Depth	86.28	feet		05/05/17 10:43		
	Elevation Water Level	469.48	ft/msl		05/05/17 10:43		
	Collar Elevation	480.20	ft/msl		05/05/17 10:43		
	Depth to Water	10.72	feet		05/05/17 10:43		
EPA 9056	Chloride	3.8	mg/L	0.25	05/11/17 23:14		
EPA 9056	Fluoride	0.42	mg/L	0.10	05/11/17 23:14		
EPA 9056	Sulfate	60.9	mg/L	2.5	05/11/17 23:32		
EPA 6010	Barium	125	ug/L	10.0	05/12/17 11:06		
EPA 6010	Calcium	94300	ug/L	500	05/12/17 11:06		
EPA 6010	Iron	59.4	ug/L	50.0	05/12/17 11:06		
EPA 6010	Magnesium	45300	ug/L	500	05/12/17 11:06		
EPA 6010	Manganese	10.8	ug/L	5.0	05/12/17 11:06		
EPA 6010	Sodium	11400	ug/L	1000	05/12/17 11:06		
EPA 6010	Total Hardness by 2340B	422000	ug/L	1000	05/12/17 11:06		
EPA 6010	Zinc	27.0	ug/L	20.0	05/12/17 11:06		
EPA 6020	Copper	7.0	ug/L	5.0	05/12/17 00:28		
SM 2540C	Total Dissolved Solids	458	mg/L	10.0	05/11/17 11:45		
EPA 353.2	Nitrogen, NO ₂ plus NO ₃	0.35	mg/L	0.10	05/16/17 12:05		
50170228017	PZ-105-SS						
	Field pH	6.98	Std. Units		05/05/17 12:19		
	Field Temperature	19.9	deg C		05/05/17 12:19		
	Field Specific Conductance	1038	umhos/cm		05/05/17 12:19		
	Field Oxidation Potential	-95	mV		05/05/17 12:19		
	Oxygen, Dissolved	0.26	mg/L		05/05/17 12:19		
	Field Turbidity	3.83	NTU		05/05/17 12:19		
	Total Well Depth	144.82	feet		05/05/17 12:19		
	Elevation Water Level	461.35	ft/msl		05/05/17 12:19		
	Collar Elevation	483.51	ft/msl		05/05/17 12:19		
	Depth to Water	22.16	feet		05/05/17 12:19		
EPA 9056	Chloride	64.9	mg/L	2.5	05/11/17 16:58		
EPA 9056	Fluoride	0.54	mg/L	0.10	05/11/17 16:01		
EPA 9056	Sulfate	45.4	mg/L	2.5	05/11/17 16:58		
EPA 6010	Barium	182	ug/L	10.0	05/12/17 11:08		
EPA 6010	Calcium	107000	ug/L	500	05/12/17 11:08		
EPA 6010	Iron	2400	ug/L	50.0	05/12/17 11:08		
EPA 6010	Magnesium	56000	ug/L	500	05/12/17 11:08		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228017	PZ-105-SS					
EPA 6010	Manganese	87.8	ug/L	5.0	05/12/17 11:08	
EPA 6010	Sodium	42600	ug/L	1000	05/12/17 11:08	
EPA 6010	Total Hardness by 2340B	499000	ug/L	1000	05/12/17 11:08	
SM 2540C	Total Dissolved Solids	597	mg/L	10.0	05/11/17 11:45	
EPA 410.4	Chemical Oxygen Demand	17.3	mg/L	10.0	05/16/17 19:04	
SM 5310C	Total Organic Carbon	2.7	mg/L	1.0	05/16/17 23:53	
50170228020	PZ-104-KS					
	Field pH	7.07	Std. Units		05/08/17 10:20	
	Field Temperature	25.3	deg C		05/08/17 10:20	
	Field Specific Conductance	817	umhos/cm		05/08/17 10:20	
	Field Oxidation Potential	-231	mV		05/08/17 10:20	
	Oxygen, Dissolved	0.30	mg/L		05/08/17 10:20	
	Field Turbidity	0.36	NTU		05/08/17 10:20	
	Total Well Depth	93.29	feet		05/08/17 10:20	
	Elevation Water Level	468.83	ft/msl		05/08/17 10:20	
	Collar Elevation	483.95	ft/msl		05/08/17 10:20	
	Depth to Water	15.62	feet		05/08/17 10:20	
EPA 9056	Chloride	40.3	mg/L	2.5	05/22/17 20:53	
EPA 9056	Fluoride	1.8	mg/L	0.10	05/22/17 20:35	
EPA 9056	Sulfate	23.9	mg/L	0.25	05/22/17 20:35	
EPA 6010	Barium	92.4	ug/L	10.0	05/16/17 10:40	
EPA 6010	Boron	112	ug/L	100	05/16/17 10:40	
EPA 6010	Calcium	75900	ug/L	500	05/16/17 10:40	
EPA 6010	Iron	1140	ug/L	50.0	05/16/17 10:40	
EPA 6010	Magnesium	38000	ug/L	500	05/16/17 10:40	
EPA 6010	Manganese	12.7	ug/L	5.0	05/16/17 10:40	
EPA 6010	Sodium	34400	ug/L	1000	05/16/17 10:40	
EPA 6010	Total Hardness by 2340B	346000	ug/L	1000	05/16/17 10:40	
SM 2540C	Total Dissolved Solids	402	mg/L	10.0	05/12/17 10:15	
EPA 410.4	Chemical Oxygen Demand	10.6	mg/L	10.0	05/16/17 19:04	
SM 4500-NH3 G	Nitrogen, Ammonia	0.18	mg/L	0.10	05/19/17 14:17	
50170228021	PZ-104-SD					
	Field pH	6.69	Std. Units		05/08/17 12:03	
	Field Temperature	26.4	deg C		05/08/17 12:03	
	Field Specific Conductance	1920	umhos/cm		05/08/17 12:03	
	Field Oxidation Potential	-188	mV		05/08/17 12:03	
	Oxygen, Dissolved	0.92	mg/L		05/08/17 12:03	
	Field Turbidity	18.39	NTU		05/08/17 12:03	
	Total Well Depth	120.62	feet		05/08/17 12:03	
	Elevation Water Level	463.50	ft/msl		05/08/17 12:03	
	Collar Elevation	483.51	ft/msl		05/08/17 12:03	
	Depth to Water	20.01	feet		05/08/17 12:03	
EPA 9056	Chloride	3.6	mg/L	0.25	05/22/17 21:11	
EPA 9056	Fluoride	0.73	mg/L	0.10	05/22/17 21:11	
EPA 9056	Sulfate	17.3	mg/L	0.25	05/22/17 21:11	
EPA 6010	Barium	105	ug/L	10.0	05/16/17 10:42	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50170228021	PZ-104-SD						
EPA 6010	Boron	135	ug/L	100	05/16/17 10:42		
EPA 6010	Calcium	84000	ug/L	500	05/16/17 10:42		
EPA 6010	Iron	181	ug/L	50.0	05/16/17 10:42		
EPA 6010	Magnesium	50300	ug/L	500	05/16/17 10:42		
EPA 6010	Manganese	24.3	ug/L	5.0	05/16/17 10:42		
EPA 6010	Sodium	14700	ug/L	1000	05/16/17 10:42		
EPA 6010	Total Hardness by 2340B	417000	ug/L	1000	05/16/17 10:42		
EPA 8260	Benzene	400	ug/L	25.0	05/19/17 16:59		
EPA 8260	Tetrahydrofuran	1150	ug/L	500	05/19/17 16:59	N2	
EPA 8260	Toluene	34.3	ug/L	5.0	05/18/17 22:23		
EPA 8260	Xylene (Total)	20.4	ug/L	5.0	05/18/17 22:23		
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	05/12/17 10:15		
EPA 410.4	Chemical Oxygen Demand	47.2	mg/L	10.0	05/16/17 19:04		
50170228022	PZ-104-SS						
	Field pH	6.50	Std. Units		05/08/17 14:36		
	Field Temperature	27.0	deg C		05/08/17 14:36		
	Field Specific Conductance	812	umhos/cm		05/08/17 14:36		
	Field Oxidation Potential	-287	mV		05/08/17 14:36		
	Oxygen, Dissolved	0.11	mg/L		05/08/17 14:36		
	Field Turbidity	2.41	NTU		05/08/17 14:36		
	Total Well Depth	140.29	feet		05/08/17 14:36		
	Elevation Water Level	464.36	ft/msl		05/08/17 14:36		
	Collar Elevation	483.45	ft/msl		05/08/17 14:36		
	Depth to Water	19.09	feet		05/08/17 14:36		
EPA 9056	Iodide	1.1	mg/L	0.50	05/19/17 18:24	N2	
EPA 9056	Chloride	202	mg/L	25.0	05/22/17 18:11		
EPA 9056	Fluoride	0.92	mg/L	0.10	05/22/17 16:22		
EPA 9056	Sulfate	10.1	mg/L	0.25	05/22/17 16:22		
EPA 6010	Barium	574	ug/L	10.0	05/16/17 10:44		
EPA 6010	Boron	791	ug/L	100	05/16/17 10:44		
EPA 6010	Calcium	97700	ug/L	500	05/16/17 10:44		
EPA 6010	Iron	9760	ug/L	50.0	05/16/17 10:44		
EPA 6010	Magnesium	59600	ug/L	500	05/16/17 10:44		
EPA 6010	Manganese	122	ug/L	5.0	05/16/17 10:44		
EPA 6010	Nickel	48.5	ug/L	10.0	05/16/17 10:44		
EPA 6010	Sodium	132000	ug/L	1000	05/16/17 10:44		
EPA 6010	Total Hardness by 2340B	490000	ug/L	1000	05/16/17 10:44		
EPA 6020	Arsenic	16.2	ug/L	5.0	05/16/17 00:24		
EPA 6020	Chromium	9.5	ug/L	5.0	05/16/17 00:24		
EPA 8260	Benzene	213	ug/L	5.0	05/18/17 23:00		
EPA 8260	Methyl-tert-butyl ether	7.9	ug/L	5.0	05/18/17 23:00		
EPA 8260	Toluene	25.4	ug/L	5.0	05/18/17 23:00		
EPA 8260	Xylene (Total)	7.4	ug/L	5.0	05/18/17 23:00		
SM 2540C	Total Dissolved Solids	883	mg/L	10.0	05/12/17 10:15		
EPA 410.4	Chemical Oxygen Demand	170	mg/L	20.0	05/16/17 19:04		
EPA 365.1	Phosphorus	0.13	mg/L	0.050	05/20/17 16:09		
SM 4500-NH3 G	Nitrogen, Ammonia	34.0	mg/L	0.50	05/19/17 14:27		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50170228022	PZ-104-SS					
SM 5310C	Total Organic Carbon	45.4	mg/L	10.0	05/18/17 12:22	
50171104001	PZ-115-SS					
	Field pH	6.55	Std. Units	05/15/17 08:28		
	Field Temperature	16.0	deg C	05/15/17 08:28		
	Field Specific Conductance	2690	umhos/cm	05/15/17 08:28		
	Field Oxidation Potential	-69	mV	05/15/17 08:28		
	Oxygen, Dissolved	0.17	mg/L	05/15/17 08:28		
	Field Turbidity	4.69	NTU	05/15/17 08:28		
	Total Well Depth	81.03	feet	05/15/17 08:28		
	Elevation Water Level	441.47	ft/msl	05/15/17 08:28		
	Collar Elevation	452.27	ft/msl	05/15/17 08:28		
	Depth to Water	10.80	feet	05/15/17 08:28		
EPA 9056	Chloride	515	mg/L	25.0	05/25/17 19:39	
EPA 9056	Fluoride	0.29	mg/L	0.10	05/25/17 19:14	
EPA 9056	Sulfate	3.1	mg/L	0.25	05/25/17 19:14	
EPA 6010	Barium	508	ug/L	10.0	05/18/17 13:19	
EPA 6010	Boron	478	ug/L	100	05/18/17 13:19	
EPA 6010	Calcium	220000	ug/L	5000	05/18/17 13:45	
EPA 6010	Cobalt	31.4	ug/L	5.0	05/18/17 13:19	
EPA 6010	Iron	3010	ug/L	50.0	05/18/17 13:19	
EPA 6010	Magnesium	104000	ug/L	500	05/18/17 13:19	
EPA 6010	Manganese	79.7	ug/L	5.0	05/18/17 13:19	
EPA 6010	Nickel	71.1	ug/L	10.0	05/18/17 13:19	
EPA 6010	Sodium	183000	ug/L	1000	05/18/17 13:19	
EPA 6010	Total Hardness by 2340B	977000	ug/L	10000	05/18/17 13:45	
EPA 6020	Arsenic	6.4	ug/L	5.0	05/18/17 22:52	
SM 2540C	Total Dissolved Solids	1710	mg/L	10.0	05/18/17 07:24	
EPA 410.4	Chemical Oxygen Demand	31.3	mg/L	10.0	05/23/17 16:18	
EPA 365.1	Phosphorus	0.26	mg/L	0.050	05/26/17 12:02	
SM 4500-NH3 G	Nitrogen, Ammonia	1.3	mg/L	0.10	05/23/17 12:55	
SM 5310C	Total Organic Carbon	13.7	mg/L	10.0	05/30/17 13:10	
50171104002	PZ-114-AS					
	Field pH	6.53	Std. Units	05/15/17 09:23		
	Field Temperature	16.8	deg C	05/15/17 09:23		
	Field Specific Conductance	2480	umhos/cm	05/15/17 09:23		
	Field Oxidation Potential	-131	mV	05/15/17 09:23		
	Oxygen, Dissolved	0.15	mg/L	05/15/17 09:23		
	Field Turbidity	15.20	NTU	05/15/17 09:23		
	Total Well Depth	26.04	feet	05/15/17 09:23		
	Elevation Water Level	435.28	ft/msl	05/15/17 09:23		
	Collar Elevation	451.26	ft/msl	05/15/17 09:23		
	Depth to Water	15.98	feet	05/15/17 09:23		
EPA 9056	Chloride	437	mg/L	25.0	05/25/17 20:15	
EPA 9056	Fluoride	0.12	mg/L	0.10	05/25/17 19:57	
EPA 9056	Sulfate	0.39	mg/L	0.25	05/25/17 19:57	
EPA 6010	Barium	1000	ug/L	10.0	05/18/17 13:26	

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SUMMARY OF DETECTION

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50171104002	PZ-114-AS						
EPA 6010	Boron	288	ug/L	100	05/18/17 13:26		
EPA 6010	Calcium	197000	ug/L	500	05/18/17 13:26		
EPA 6010	Iron	67900	ug/L	50.0	05/18/17 13:26		
EPA 6010	Magnesium	53200	ug/L	500	05/18/17 13:26		
EPA 6010	Manganese	4700	ug/L	5.0	05/18/17 13:26		
EPA 6010	Sodium	173000	ug/L	1000	05/18/17 13:26		
EPA 6010	Total Hardness by 2340B	712000	ug/L	1000	05/18/17 13:26		
EPA 6020	Arsenic	106	ug/L	5.0	05/18/17 22:57		
EPA 8260	Benzene	5.0	ug/L	5.0	05/18/17 17:04		
EPA 8260	Chlorobenzene	40.9	ug/L	5.0	05/18/17 17:04		
SM 2540C	Total Dissolved Solids	1470	mg/L	20.0	05/19/17 09:11		
EPA 410.4	Chemical Oxygen Demand	32.5	mg/L	10.0	05/23/17 16:18		
EPA 365.1	Phosphorus	1.6	mg/L	0.25	05/26/17 12:27		
SM 4500-NH3 G	Nitrogen, Ammonia	6.2	mg/L	0.10	05/23/17 12:04		
SM 5310C	Total Organic Carbon	11.6	mg/L	10.0	05/30/17 13:29		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-111-SD	Lab ID: 50170228001	Collected: 05/02/17 09:07	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.06	Std. Units		1		05/02/17 09:07		
Field Temperature	16.8	deg C		1		05/02/17 09:07		
Field Specific Conductance	827	umhos/cm		1		05/02/17 09:07		
Field Oxidation Potential	-34	mV		1		05/02/17 09:07		
Oxygen, Dissolved	0.85	mg/L		1		05/02/17 09:07	7782-44-7	
Field Turbidity	1.35	NTU		1		05/02/17 09:07		
Total Well Depth	197.08	feet		1		05/02/17 09:07		
Elevation Water Level	430.38	ft/msl		1		05/02/17 09:07		
Collar Elevation	466.46	ft/msl		1		05/02/17 09:07		
Depth to Water	36.08	feet		1		05/02/17 09:07		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 19:13		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	24.1	mg/L	2.5	10		05/11/17 02:49	16887-00-6	
Fluoride	2.0	mg/L	0.10	1		05/11/17 02:30	16984-48-8	
Sulfate	56.9	mg/L	2.5	10		05/11/17 02:49	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	105	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:49	7440-39-3	
Boron	ND	ug/L	100	1	05/05/17 11:09	05/11/17 10:49	7440-42-8	
Calcium	89900	ug/L	500	1	05/05/17 11:09	05/11/17 10:49	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:49	7440-48-4	
Iron	849	ug/L	50.0	1	05/05/17 11:09	05/11/17 10:49	7439-89-6	
Magnesium	52400	ug/L	500	1	05/05/17 11:09	05/11/17 10:49	7439-95-4	
Manganese	15.3	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:49	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:49	7440-02-0	
Sodium	18200	ug/L	1000	1	05/05/17 11:09	05/11/17 10:49	7440-23-5	
Total Hardness by 2340B	440000	ug/L	1000	1	05/05/17 11:09	05/11/17 10:49		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 10:49	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 20:52	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:56	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 04:56	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 04:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:56	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:56	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:56	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 20:52	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:56	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 04:56	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 04:56	7440-62-2	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-111-SD	Lab ID: 50170228001	Collected: 05/02/17 09:07	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:01	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 16:57	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 16:57	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 16:57	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 16:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 16:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 16:57	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 16:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 16:57	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 16:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 16:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 16:57	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 16:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 16:57	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 16:57	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 16:57	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 16:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 16:57	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 16:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 16:57	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 16:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 16:57	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 16:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 16:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 16:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 16:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 16:57	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 16:57	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 16:57	108-10-1	
Styrene	ND	ug/L	5.0	1		05/08/17 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 16:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 16:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 16:57	127-18-4	
Toluene	ND	ug/L	5.0	1		05/08/17 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 16:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 16:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 16:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 16:57	96-18-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-111-SD	Lab ID: 50170228001	Collected: 05/02/17 09:07	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 16:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 16:57	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 16:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	86-116	1		05/08/17 16:57	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	84-113	1		05/08/17 16:57	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/08/17 16:57	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	574	mg/L	10.0	1		05/08/17 08:39		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/16/17 11:32		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 15:00	05/17/17 19:00	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/12/17 15:23	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/12/17 11:31	7440-44-0	

Sample: PZ-109-SS	Lab ID: 50170228002	Collected: 05/02/17 10:33	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.97	Std. Units		1		05/02/17 10:33		
Field Temperature	20.3	deg C		1		05/02/17 10:33		
Field Specific Conductance	769	umhos/cm		1		05/02/17 10:33		
Field Oxidation Potential	95	mV		1		05/02/17 10:33		
Oxygen, Dissolved	1.08	mg/L		1		05/02/17 10:33	7782-44-7	
Field Turbidity	1.75	NTU		1		05/02/17 10:33		
Total Well Depth	130.98	feet		1		05/02/17 10:33		
Elevation Water Level	439.52	ft/msl		1		05/02/17 10:33		
Collar Elevation	460.19	ft/msl		1		05/02/17 10:33		
Depth to Water	20.67	feet		1		05/02/17 10:33		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 20:38		N2

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-109-SS	Lab ID: 50170228002	Collected: 05/02/17 10:33	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	3.7	mg/L	0.25	1		05/11/17 03:08	16887-00-6	
Fluoride	2.3	mg/L	0.10	1		05/11/17 03:08	16984-48-8	
Sulfate	22.3	mg/L	0.25	1		05/11/17 03:08	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	57.3	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:51	7440-39-3	
Boron	176	ug/L	100	1	05/05/17 11:09	05/11/17 10:51	7440-42-8	
Calcium	89500	ug/L	500	1	05/05/17 11:09	05/11/17 10:51	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:51	7440-48-4	
Iron	ND	ug/L	50.0	1	05/05/17 11:09	05/11/17 10:51	7439-89-6	
Magnesium	51500	ug/L	500	1	05/05/17 11:09	05/11/17 10:51	7439-95-4	
Manganese	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:51	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:51	7440-02-0	
Sodium	9740	ug/L	1000	1	05/05/17 11:09	05/11/17 10:51	7440-23-5	
Total Hardness by 2340B	436000	ug/L	1000	1	05/05/17 11:09	05/11/17 10:51		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 10:51	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 20:57	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:00	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:00	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:00	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:00	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:00	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:00	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 20:57	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:00	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:00	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:00	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:03	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 17:35	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 17:35	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 17:35	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 17:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 17:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 17:35	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 17:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 17:35	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 17:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 17:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 17:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 17:35	75-00-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-109-SS	Lab ID: 50170228002	Collected: 05/02/17 10:33	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	5.0	1		05/08/17 17:35	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 17:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 17:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 17:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 17:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 17:35	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 17:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 17:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 17:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 17:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 17:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 17:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 17:35	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 17:35	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 17:35	108-10-1	
Styrene	ND	ug/L	5.0	1		05/08/17 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 17:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 17:35	127-18-4	
Toluene	ND	ug/L	5.0	1		05/08/17 17:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 17:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 17:35	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 17:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 17:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 17:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	86-116	1		05/08/17 17:35	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	84-113	1		05/08/17 17:35	460-00-4	
Toluene-d8 (S)	93	%.	86-111	1		05/08/17 17:35	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	444	mg/L	10.0	1		05/08/17 08:40		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-109-SS	Lab ID: 50170228002	Collected: 05/02/17 10:33	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO ₂ /NO ₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:37		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 15:00	05/17/17 19:01	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/12/17 14:30	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.0	mg/L	1.0	1		05/12/17 12:02	7440-44-0	
Sample: PZ-210-SD	Lab ID: 50170228003	Collected: 05/02/17 12:11	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.06	Std. Units		1		05/02/17 12:11		
Field Temperature	16.6	deg C		1		05/02/17 12:11		
Field Specific Conductance	982	umhos/cm		1		05/02/17 12:11		
Field Oxidation Potential	-118	mV		1		05/02/17 12:11		
Oxygen, Dissolved	0.23	mg/L		1		05/02/17 12:11	7782-44-7	
Field Turbidity	0.52	NTU		1		05/02/17 12:11		
Total Well Depth	101.60	feet		1		05/02/17 12:11		
Elevation Water Level	461.85	ft/msl		1		05/02/17 12:11		
Collar Elevation	487.00	ft/msl		1		05/02/17 12:11		
Depth to Water	25.15	feet		1		05/02/17 12:11		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/04/17 10:00	05/05/17 17:08	11104-28-2	
<i>Surrogates</i>								
Tetrachloro-m-xylene (S)	83	%.	10-108	1	05/04/17 10:00	05/05/17 17:08	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 21:06		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	32.0	mg/L	2.5	10		05/11/17 04:04	16887-00-6	
Fluoride	1.8	mg/L	0.10	1		05/11/17 03:45	16984-48-8	
Sulfate	34.0	mg/L	2.5	10		05/11/17 04:04	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	69.4	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:58	7440-39-3	
Boron	175	ug/L	100	1	05/05/17 11:09	05/11/17 10:58	7440-42-8	
Calcium	74700	ug/L	500	1	05/05/17 11:09	05/11/17 10:58	7440-70-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-210-SD	Lab ID: 50170228003	Collected: 05/02/17 12:11	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:58	7440-48-4	
Iron	3200	ug/L	50.0	1	05/05/17 11:09	05/11/17 10:58	7439-89-6	
Magnesium	46000	ug/L	500	1	05/05/17 11:09	05/11/17 10:58	7439-95-4	
Manganese	78.9	ug/L	5.0	1	05/05/17 11:09	05/11/17 10:58	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 10:58	7440-02-0	
Sodium	69300	ug/L	1000	1	05/05/17 11:09	05/11/17 10:58	7440-23-5	
Total Hardness by 2340B	376000	ug/L	1000	1	05/05/17 11:09	05/11/17 10:58		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 10:58	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 20:25	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 04:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 04:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 04:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 04:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 04:28	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:11	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 14:38		
Phenol	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 14:38	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%.	18-136	1	05/05/17 14:52	05/06/17 14:38	4165-60-0	
2-Fluorobiphenyl (S)	51	%.	10-127	1	05/05/17 14:52	05/06/17 14:38	321-60-8	
p-Terphenyl-d14 (S)	50	%.	16-146	1	05/05/17 14:52	05/06/17 14:38	1718-51-0	
Phenol-d5 (S)	23	%.	10-64	1	05/05/17 14:52	05/06/17 14:38	4165-62-2	
2-Fluorophenol (S)	32	%.	10-76	1	05/05/17 14:52	05/06/17 14:38	367-12-4	
2,4,6-Tribromophenol (S)	66	%.	26-140	1	05/05/17 14:52	05/06/17 14:38	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 18:13	67-64-1	L1,M0
Acrylonitrile	ND	ug/L	100	1		05/08/17 18:13	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 18:13	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 18:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 18:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 18:13	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 18:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 18:13	78-93-3	M1
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 18:13	109-69-3	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-210-SD	Lab ID: 50170228003	Collected: 05/02/17 12:11	Received: 05/04/17 08:30	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		05/08/17 18:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 18:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 18:13	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 18:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 18:13	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 18:13	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 18:13	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 18:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 18:13	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 18:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 18:13	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 18:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 18:13	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 18:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 18:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 18:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 18:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 18:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 18:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 18:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 18:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 18:13	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 18:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 18:13	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 18:13	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 18:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 18:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 18:13	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 18:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 18:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 18:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 18:13	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 18:13	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 18:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 18:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 18:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 18:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 18:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 18:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 18:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 18:13	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 18:13	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 18:13	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 18:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	86-116	1		05/08/17 18:13	1868-53-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-210-SD	Lab ID: 50170228003	Collected: 05/02/17 12:11	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	104	%.	84-113	1		05/08/17 18:13	460-00-4	
Toluene-d8 (S)	93	%.	86-111	1		05/08/17 18:13	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	545	mg/L	10.0	1		05/08/17 08:42		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	17.9	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		05/04/17 17:07		
353.2 Nitrogen, NO ₂ /NO ₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:40		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.077	mg/L	0.050	1	05/17/17 15:00	05/17/17 19:04	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	1.9	mg/L	0.10	1		05/12/17 14:31	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	6.4	mg/L	1.0	1		05/12/17 12:33	7440-44-0	
Sample: PZ-210-SS	Lab ID: 50170228004	Collected: 05/02/17 14:22	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.04	Std. Units		1		05/02/17 14:22		
Field Temperature	17.0	deg C		1		05/02/17 14:22		
Field Specific Conductance	785	umhos/cm		1		05/02/17 14:22		
Field Oxidation Potential	-113	mV		1		05/02/17 14:22		
Oxygen, Dissolved	0.21	mg/L		1		05/02/17 14:22	7782-44-7	
Field Turbidity	0.17	NTU		1		05/02/17 14:22		
Total Well Depth	101.46	feet		1		05/02/17 14:22		
Elevation Water Level	462.36	ft/msl		1		05/02/17 14:22		
Collar Elevation	486.90	ft/msl		1		05/02/17 14:22		
Depth to Water	24.54	feet		1		05/02/17 14:22		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/04/17 10:00	05/05/17 17:16	11104-28-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-210-SS	Lab ID: 50170228004	Collected: 05/02/17 14:22	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
Surrogates								
Tetrachloro-m-xylene (S)	87	%.	10-108	1	05/04/17 10:00	05/05/17 17:16	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 21:35		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	20.3	mg/L	2.5	10		05/11/17 04:42	16887-00-6	
Fluoride	0.68	mg/L	0.10	1		05/11/17 04:23	16984-48-8	
Sulfate	6.7	mg/L	0.25	1		05/11/17 04:23	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	83.3	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:00	7440-39-3	
Boron	112	ug/L	100	1	05/05/17 11:09	05/11/17 11:00	7440-42-8	
Calcium	86000	ug/L	500	1	05/05/17 11:09	05/11/17 11:00	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:00	7440-48-4	
Iron	1230	ug/L	50.0	1	05/05/17 11:09	05/11/17 11:00	7439-89-6	
Magnesium	44900	ug/L	500	1	05/05/17 11:09	05/11/17 11:00	7439-95-4	
Manganese	76.7	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:00	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:00	7440-02-0	
Sodium	18900	ug/L	1000	1	05/05/17 11:09	05/11/17 11:00	7440-23-5	
Total Hardness by 2340B	400000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:00		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 11:00	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:02	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:05	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:05	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:05	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:05	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:05	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:05	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:02	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:05	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:05	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:05	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:13	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 14:55		
Phenol	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 14:55	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	57	%.	18-136	1	05/05/17 14:52	05/06/17 14:55	4165-60-0	
2-Fluorobiphenyl (S)	59	%.	10-127	1	05/05/17 14:52	05/06/17 14:55	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-210-SS	Lab ID: 50170228004	Collected: 05/02/17 14:22	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Surrogates								
p-Terphenyl-d14 (S)	51	%.	16-146	1	05/05/17 14:52	05/06/17 14:55	1718-51-0	
Phenol-d5 (S)	24	%.	10-64	1	05/05/17 14:52	05/06/17 14:55	4165-62-2	
2-Fluorophenol (S)	33	%.	10-76	1	05/05/17 14:52	05/06/17 14:55	367-12-4	
2,4,6-Tribromophenol (S)	78	%.	26-140	1	05/05/17 14:52	05/06/17 14:55	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 20:06	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 20:06	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 20:06	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 20:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 20:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 20:06	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 20:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 20:06	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 20:06	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 20:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 20:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 20:06	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 20:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 20:06	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 20:06	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 20:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 20:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 20:06	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 20:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 20:06	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 20:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 20:06	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 20:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 20:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 20:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 20:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 20:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 20:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 20:06	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 20:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 20:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 20:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 20:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 20:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 20:06	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 20:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 20:06	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-210-SS	Lab ID: 50170228004	Collected: 05/02/17 14:22	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 20:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 20:06	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 20:06	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 20:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 20:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 20:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 20:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 20:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 20:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 20:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 20:06	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 20:06	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 20:06	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 20:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	86-116	1		05/08/17 20:06	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	84-113	1		05/08/17 20:06	460-00-4	
Toluene-d8 (S)	93	%.	86-111	1		05/08/17 20:06	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	453	mg/L	10.0	1		05/08/17 08:43		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	26.6	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		05/04/17 17:07		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:42		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 15:00	05/17/17 19:04	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/12/17 14:32	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	6.3	mg/L	1.0	1		05/18/17 07:15	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-211-SD	Lab ID: 50170228005	Collected: 05/02/17 15:45	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.15	Std. Units		1		05/02/17 15:45		
Field Temperature	15.8	deg C		1		05/02/17 15:45		
Field Specific Conductance	944	umhos/cm		1		05/02/17 15:45		
Field Oxidation Potential	-239	mV		1		05/02/17 15:45		
Oxygen, Dissolved	0.94	mg/L		1		05/02/17 15:45	7782-44-7	
Field Turbidity	4.12	NTU		1		05/02/17 15:45		
Total Well Depth	99.02	feet		1		05/02/17 15:45		
Elevation Water Level	465.96	ft/msl		1		05/02/17 15:45		
Collar Elevation	487.46	ft/msl		1		05/02/17 15:45		
Depth to Water	21.50	feet		1		05/02/17 15:45		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/04/17 10:00	05/08/17 17:27	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	71	%.	10-108	1	05/04/17 10:00	05/08/17 17:27	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 22:03		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	10.2	mg/L	0.25	1		05/11/17 05:00	16887-00-6	
Fluoride	2.1	mg/L	0.10	1		05/11/17 05:00	16984-48-8	
Sulfate	44.4	mg/L	2.5	10		05/11/17 05:19	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	39.7	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:02	7440-39-3	
Boron	131	ug/L	100	1	05/05/17 11:09	05/11/17 11:02	7440-42-8	
Calcium	58300	ug/L	500	1	05/05/17 11:09	05/11/17 11:02	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:02	7440-48-4	
Iron	174	ug/L	50.0	1	05/05/17 11:09	05/11/17 11:02	7439-89-6	
Magnesium	28600	ug/L	500	1	05/05/17 11:09	05/11/17 11:02	7439-95-4	
Manganese	48.6	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:02	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:02	7440-02-0	
Sodium	114000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:02	7440-23-5	
Total Hardness by 2340B	263000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:02		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 11:02	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:06	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:10	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:10	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:10	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:10	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:10	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:10	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:06	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-211-SD	Lab ID: 50170228005	Collected: 05/02/17 15:45	Received: 05/04/17 08:30	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	05/08/17 08:33	05/10/17 05:10	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:10	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:10	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:15	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 15:12		
Phenol	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 15:12	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	51	%.	18-136	1	05/05/17 14:52	05/06/17 15:12	4165-60-0	
2-Fluorobiphenyl (S)	53	%.	10-127	1	05/05/17 14:52	05/06/17 15:12	321-60-8	
p-Terphenyl-d14 (S)	59	%.	16-146	1	05/05/17 14:52	05/06/17 15:12	1718-51-0	
Phenol-d5 (S)	21	%.	10-64	1	05/05/17 14:52	05/06/17 15:12	4165-62-2	
2-Fluorophenol (S)	25	%.	10-76	1	05/05/17 14:52	05/06/17 15:12	367-12-4	
2,4,6-Tribromophenol (S)	75	%.	26-140	1	05/05/17 14:52	05/06/17 15:12	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 20:43	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 20:43	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 20:43	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 20:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 20:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 20:43	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 20:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 20:43	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 20:43	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 20:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 20:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 20:43	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 20:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 20:43	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 20:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 20:43	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 20:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 20:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 20:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 20:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 20:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 20:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 20:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 20:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 20:43	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-211-SD	Lab ID: 50170228005	Collected: 05/02/17 15:45	Received: 05/04/17 08:30	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		05/08/17 20:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 20:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 20:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 20:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 20:43	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 20:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 20:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 20:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 20:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 20:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 20:43	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 20:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 20:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 20:43	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 20:43	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 20:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 20:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 20:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 20:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 20:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 20:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 20:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 20:43	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 20:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 20:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 20:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	86-116	1		05/08/17 20:43	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	84-113	1		05/08/17 20:43	460-00-4	
Toluene-d8 (S)	90	%.	86-111	1		05/08/17 20:43	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	471	mg/L	10.0	1		05/08/17 08:43		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	18.0	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	5.0	5		05/04/17 17:11		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/16/17 11:44		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.088	mg/L	0.050	1	05/17/17 15:00	05/17/17 19:05	7723-14-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-211-SD	Lab ID: 50170228005	Collected: 05/02/17 15:45	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.45	mg/L	0.10	1		05/12/17 14:33	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.6	mg/L	1.0	1		05/18/17 07:45	7440-44-0	
Sample: PZ-211-SS	Lab ID: 50170228006	Collected: 05/02/17 16:57	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.60	Std. Units		1		05/02/17 16:57		
Field Temperature	16.0	deg C		1		05/02/17 16:57		
Field Specific Conductance	690	umhos/cm		1		05/02/17 16:57		
Field Oxidation Potential	-215	mV		1		05/02/17 16:57		
Oxygen, Dissolved	0.27	mg/L		1		05/02/17 16:57	7782-44-7	
Field Turbidity	4.14	NTU		1		05/02/17 16:57		
Total Well Depth	98.12	feet		1		05/02/17 16:57		
Elevation Water Level	467.98	ft/msl		1		05/02/17 16:57		
Collar Elevation	487.41	ft/msl		1		05/02/17 16:57		
Depth to Water	19.43	feet		1		05/02/17 16:57		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221) <i>Surrogates</i>	ND	ug/L	0.20	1	05/04/17 10:00	05/08/17 17:35	11104-28-2	
Tetrachloro-m-xylene (S)	90	%.	10-108	1	05/04/17 10:00	05/08/17 17:35	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 22:31		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	8.6	mg/L	0.25	1		05/10/17 17:25	16887-00-6	
Fluoride	1.7	mg/L	0.10	1		05/10/17 17:25	16984-48-8	
Sulfate	31.7	mg/L	2.5	10		05/10/17 17:44	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	63.1	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:04	7440-39-3	
Boron	419	ug/L	100	1	05/05/17 11:09	05/11/17 11:04	7440-42-8	
Calcium	66100	ug/L	500	1	05/05/17 11:09	05/11/17 11:04	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:04	7440-48-4	
Iron	934	ug/L	50.0	1	05/05/17 11:09	05/11/17 11:04	7439-89-6	
Magnesium	41300	ug/L	500	1	05/05/17 11:09	05/11/17 11:04	7439-95-4	
Manganese	60.3	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:04	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:04	7440-02-0	
Sodium	23700	ug/L	1000	1	05/05/17 11:09	05/11/17 11:04	7440-23-5	
Total Hardness by 2340B	335000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:04		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-211-SS	Lab ID: 50170228006	Collected: 05/02/17 16:57	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 11:04	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:11	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:14	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:14	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:14	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:14	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:14	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:11	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:14	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:14	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:14	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:18	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 15:28		
Phenol	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 15:28	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	53	%.	18-136	1	05/05/17 14:52	05/06/17 15:28	4165-60-0	
2-Fluorobiphenyl (S)	48	%.	10-127	1	05/05/17 14:52	05/06/17 15:28	321-60-8	
p-Terphenyl-d14 (S)	58	%.	16-146	1	05/05/17 14:52	05/06/17 15:28	1718-51-0	
Phenol-d5 (S)	22	%.	10-64	1	05/05/17 14:52	05/06/17 15:28	4165-62-2	
2-Fluorophenol (S)	26	%.	10-76	1	05/05/17 14:52	05/06/17 15:28	367-12-4	
2,4,6-Tribromophenol (S)	73	%.	26-140	1	05/05/17 14:52	05/06/17 15:28	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 21:21	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 21:21	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 21:21	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 21:21	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 21:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 21:21	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 21:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 21:21	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 21:21	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 21:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 21:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 21:21	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 21:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 21:21	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 21:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 21:21	96-12-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-211-SS	Lab ID: 50170228006	Collected: 05/02/17 16:57	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260.							
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 21:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 21:21	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 21:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 21:21	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 21:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 21:21	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 21:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 21:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 21:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 21:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 21:21	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 21:21	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 21:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 21:21	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 21:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 21:21	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 21:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 21:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 21:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 21:21	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 21:21	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 21:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 21:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 21:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 21:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 21:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 21:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 21:21	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 21:21	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 21:21	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 21:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	86-116	1		05/08/17 21:21	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	84-113	1		05/08/17 21:21	460-00-4	
Toluene-d8 (S)	92	%.	86-111	1		05/08/17 21:21	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	415	mg/L	10.0	1		05/08/17 08:44		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-211-SS	Lab ID: 50170228006	Collected: 05/02/17 16:57	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		05/04/17 17:12		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:50		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:18	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.10	mg/L	0.10	1		05/12/17 14:34	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	10.0	10		05/15/17 11:42	7440-44-0	D3
<hr/>								
Sample: PZ-209-SD	Lab ID: 50170228007	Collected: 05/03/17 08:49	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.27	Std. Units		1		05/03/17 09:49		
Field Temperature	13.5	deg C		1		05/03/17 09:49		
Field Specific Conductance	826	umhos/cm		1		05/03/17 09:49		
Field Oxidation Potential	-245	mV		1		05/03/17 09:49		
Oxygen, Dissolved	0.33	mg/L		1		05/03/17 09:49	7782-44-7	
Field Turbidity	1.35	NTU		1		05/03/17 09:49		
Total Well Depth	101.40	feet		1		05/03/17 09:49		
Elevation Water Level	466.96	ft/msl		1		05/03/17 09:49		
Collar Elevation	489.58	ft/msl		1		05/03/17 09:49		
Depth to Water	22.62	feet		1		05/03/17 09:49		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/04/17 10:00	05/08/17 17:43	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	81	%.	10-108	1	05/04/17 10:00	05/08/17 17:43	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/08/17 23:56		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	10.3	mg/L	0.25	1		05/10/17 18:03	16887-00-6	
Fluoride	2.0	mg/L	0.10	1		05/10/17 18:03	16984-48-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-209-SD	Lab ID: 50170228007	Collected: 05/03/17 08:49	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Sulfate	29.9	mg/L	2.5	10		05/10/17 18:21	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	49.0	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:06	7440-39-3	
Boron	ND	ug/L	100	1	05/05/17 11:09	05/11/17 11:06	7440-42-8	
Calcium	68100	ug/L	500	1	05/05/17 11:09	05/11/17 11:06	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:06	7440-48-4	
Iron	966	ug/L	50.0	1	05/05/17 11:09	05/11/17 11:06	7439-89-6	
Magnesium	41100	ug/L	500	1	05/05/17 11:09	05/11/17 11:06	7439-95-4	
Manganese	131	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:06	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:06	7440-02-0	
Sodium	57700	ug/L	1000	1	05/05/17 11:09	05/11/17 11:06	7440-23-5	
Total Hardness by 2340B	339000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:06		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 11:06	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:16	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:19	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:19	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:19	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:19	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:19	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:19	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:16	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:19	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:19	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:19	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:25	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/09/17 09:45	05/09/17 16:29		
Phenol	ND	ug/L	10.0	1	05/09/17 09:45	05/09/17 16:29	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	18-136	1	05/09/17 09:45	05/09/17 16:29	4165-60-0	
2-Fluorobiphenyl (S)	69	%.	10-127	1	05/09/17 09:45	05/09/17 16:29	321-60-8	
p-Terphenyl-d14 (S)	73	%.	16-146	1	05/09/17 09:45	05/09/17 16:29	1718-51-0	
Phenol-d5 (S)	35	%.	10-64	1	05/09/17 09:45	05/09/17 16:29	4165-62-2	
2-Fluorophenol (S)	45	%.	10-76	1	05/09/17 09:45	05/09/17 16:29	367-12-4	
2,4,6-Tribromophenol (S)	80	%.	26-140	1	05/09/17 09:45	05/09/17 16:29	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 21:58	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 21:58	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 21:58	71-43-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-209-SD	Lab ID: 50170228007	Collected: 05/03/17 08:49	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								
			Analytical Method: EPA 8260					
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 21:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 21:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 21:58	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 21:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 21:58	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 21:58	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 21:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 21:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 21:58	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 21:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 21:58	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 21:58	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 21:58	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 21:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 21:58	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 21:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 21:58	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 21:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 21:58	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 21:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 21:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 21:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 21:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 21:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 21:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 21:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 21:58	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 21:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 21:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 21:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 21:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 21:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 21:58	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 21:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 21:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 21:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 21:58	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 21:58	109-99-9	
Toluene	ND	ug/L	5.0	1		05/08/17 21:58	108-88-3	N2
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 21:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 21:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 21:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 21:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 21:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 21:58	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-209-SD	Lab ID: 50170228007	Collected: 05/03/17 08:49	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 21:58	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 21:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 21:58	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 21:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		05/08/17 21:58	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	84-113	1		05/08/17 21:58	460-00-4	
Toluene-d8 (S)	95	%.	86-111	1		05/08/17 21:58	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	457	mg/L	10.0	1		05/09/17 07:01		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.2	1.25		05/04/17 17:35		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:52		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:19	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/12/17 14:35	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	10.0	10		05/15/17 12:59	7440-44-0	D3
Sample: PZ-209-SS	Lab ID: 50170228008	Collected: 05/03/17 11:02	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.31	Std. Units		1		05/03/17 11:02		
Field Temperature	13.6	deg C		1		05/03/17 11:02		
Field Specific Conductance	709	umhos/cm		1		05/03/17 11:02		
Field Oxidation Potential	-261	mV		1		05/03/17 11:02		
Oxygen, Dissolved	0.29	mg/L		1		05/03/17 11:02	7782-44-7	
Field Turbidity	3.73	NTU		1		05/03/17 11:02		
Total Well Depth	99.89	feet		1		05/03/17 11:02		
Elevation Water Level	468.23	ft/msl		1		05/03/17 11:02		
Collar Elevation	489.68	ft/msl		1		05/03/17 11:02		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-209-SS	Lab ID: 50170228008	Collected: 05/03/17 11:02	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Depth to Water	21.45	feet		1		05/03/17 11:02		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/04/17 10:00	05/08/17 17:51	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	84	%.	10-108	1	05/04/17 10:00	05/08/17 17:51	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 00:24		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	2.8	mg/L	0.25	1		05/10/17 19:18	16887-00-6	
Fluoride	1.6	mg/L	0.10	1		05/10/17 19:18	16984-48-8	
Sulfate	19.0	mg/L	0.25	1		05/10/17 19:18	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	84.0	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:09	7440-39-3	
Boron	271	ug/L	100	1	05/05/17 11:09	05/11/17 11:09	7440-42-8	
Calcium	71600	ug/L	500	1	05/05/17 11:09	05/11/17 11:09	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:09	7440-48-4	
Iron	474	ug/L	50.0	1	05/05/17 11:09	05/11/17 11:09	7439-89-6	
Magnesium	50200	ug/L	500	1	05/05/17 11:09	05/11/17 11:09	7439-95-4	
Manganese	61.0	ug/L	5.0	1	05/05/17 11:09	05/11/17 11:09	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/05/17 11:09	05/11/17 11:09	7440-02-0	
Sodium	11400	ug/L	1000	1	05/05/17 11:09	05/11/17 11:09	7440-23-5	
Total Hardness by 2340B	386000	ug/L	1000	1	05/05/17 11:09	05/11/17 11:09		
Zinc	ND	ug/L	20.0	1	05/05/17 11:09	05/11/17 11:09	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:29	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:33	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:33	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/08/17 08:33	05/10/17 05:33	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:33	7440-47-3	
Copper	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:33	7440-50-8	
Lead	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:33	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 21:29	7782-49-2	
Silver	ND	ug/L	5.0	1	05/08/17 08:33	05/10/17 05:33	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/08/17 08:33	05/10/17 05:33	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/08/17 08:33	05/10/17 05:33	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/16/17 12:13	05/17/17 10:28	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 16:01		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-209-SS	Lab ID: 50170228008	Collected: 05/03/17 11:02	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Phenol	ND	ug/L	10.0	1	05/05/17 14:52	05/06/17 16:01	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	61	%.	18-136	1	05/05/17 14:52	05/06/17 16:01	4165-60-0	
2-Fluorobiphenyl (S)	58	%.	10-127	1	05/05/17 14:52	05/06/17 16:01	321-60-8	
p-Terphenyl-d14 (S)	73	%.	16-146	1	05/05/17 14:52	05/06/17 16:01	1718-51-0	
Phenol-d5 (S)	34	%.	10-64	1	05/05/17 14:52	05/06/17 16:01	4165-62-2	
2-Fluorophenol (S)	39	%.	10-76	1	05/05/17 14:52	05/06/17 16:01	367-12-4	
2,4,6-Tribromophenol (S)	78	%.	26-140	1	05/05/17 14:52	05/06/17 16:01	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/08/17 22:36	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 22:36	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 22:36	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 22:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 22:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 22:36	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 22:36	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 22:36	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 22:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 22:36	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 22:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 22:36	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 22:36	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 22:36	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 22:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 22:36	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 22:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 22:36	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 22:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 22:36	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 22:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 22:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 22:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 22:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 22:36	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 22:36	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 22:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 22:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 22:36	108-10-1	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-209-SS	Lab ID: 50170228008	Collected: 05/03/17 11:02	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 22:36	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 22:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 22:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 22:36	79-34-5	
Tetrachloroethylene	ND	ug/L	5.0	1		05/08/17 22:36	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 22:36	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 22:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 22:36	79-00-5	
Trichloroethylene	ND	ug/L	5.0	1		05/08/17 22:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 22:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 22:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 22:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 22:36	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 22:36	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 22:36	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 22:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	86-116	1		05/08/17 22:36	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	84-113	1		05/08/17 22:36	460-00-4	
Toluene-d8 (S)	93	%.	86-111	1		05/08/17 22:36	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	374	mg/L	10.0	1		05/09/17 07:01		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/12/17 12:02	05/15/17 13:11		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	2.1	mg/L	2.0	2		05/04/17 17:41		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/16/17 11:53		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:21	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/12/17 14:39	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	10.0	10		05/15/17 13:30	7440-44-0	D3

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: Trip Blank	Lab ID: 50170228009	Collected: 05/03/17 08:00	Received: 05/04/17 08:30	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		05/08/17 23:14	67-64-1	L1
Acrylonitrile	ND	ug/L	100	1		05/08/17 23:14	107-13-1	
Benzene	ND	ug/L	5.0	1		05/08/17 23:14	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/08/17 23:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/08/17 23:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/08/17 23:14	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/08/17 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/08/17 23:14	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/08/17 23:14	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/08/17 23:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/17 23:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/08/17 23:14	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/08/17 23:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/08/17 23:14	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/08/17 23:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/08/17 23:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/08/17 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/08/17 23:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/08/17 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 23:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/08/17 23:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/08/17 23:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/08/17 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/08/17 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/17 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/17 23:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/08/17 23:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 23:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/08/17 23:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/08/17 23:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/08/17 23:14	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/08/17 23:14	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/08/17 23:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/08/17 23:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/08/17 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/08/17 23:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/08/17 23:14	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/08/17 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/08/17 23:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/17 23:14	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/08/17 23:14	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/08/17 23:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/17 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/08/17 23:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/08/17 23:14	79-01-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: Trip Blank	Lab ID: 50170228009	Collected: 05/03/17 08:00	Received: 05/04/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Trichlorofluoromethane	ND	ug/L	10.0	1		05/08/17 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/08/17 23:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 23:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/08/17 23:14	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/08/17 23:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/08/17 23:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/08/17 23:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	86-116	1		05/08/17 23:14	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	84-113	1		05/08/17 23:14	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/08/17 23:14	2037-26-5	
 Sample: PZ-205-SS	 Lab ID: 50170228010	 Collected: 05/04/17 15:33	 Received: 05/06/17 08:45	 Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.03	Std. Units		1		05/04/17 15:33		
Field Temperature	18.4	deg C		1		05/04/17 15:33		
Field Specific Conductance	887	umhos/cm		1		05/04/17 15:33		
Field Oxidation Potential	111	mV		1		05/04/17 15:33		
Oxygen, Dissolved	1.92	mg/L		1		05/04/17 15:33	7782-44-7	
Field Turbidity	4.59	NTU		1		05/04/17 15:33		
Total Well Depth	103.61	feet		1		05/04/17 15:33		
Elevation Water Level	435.83	ft/msl		1		05/04/17 15:33		
Collar Elevation	465.83	ft/msl		1		05/04/17 15:33		
Depth to Water	30.00	feet		1		05/04/17 15:33		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 17:39		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	32.0	mg/L	2.5	10		05/11/17 15:05	16887-00-6	
Fluoride	0.45	mg/L	0.10	1		05/11/17 14:46	16984-48-8	
Sulfate	52.2	mg/L	2.5	10		05/11/17 15:05	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	144	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:39	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 10:39	7440-42-8	
Calcium	100000	ug/L	500	1	05/11/17 07:41	05/12/17 10:39	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:39	7440-48-4	
Iron	275	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:39	7439-89-6	
Magnesium	55600	ug/L	500	1	05/11/17 07:41	05/12/17 10:39	7439-95-4	
Manganese	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:39	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:39	7440-02-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-205-SS	Lab ID: 50170228010	Collected: 05/04/17 15:33	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Sodium	15700	ug/L	1000	1	05/11/17 07:41	05/12/17 10:39	7440-23-5	
Total Hardness by 2340B	480000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:39		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:39	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:49	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/11/17 23:49	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7440-47-3	
Copper	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:49	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:49	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/11/17 23:49	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:23	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 14:14	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 14:14	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 14:14	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 14:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 14:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 14:14	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 14:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 14:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 14:14	75-15-0	L1
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 14:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 14:14	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 14:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 14:14	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 14:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 14:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 14:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 14:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 14:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 14:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 14:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 14:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 14:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 14:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:14	156-59-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-205-SS	Lab ID: 50170228010	Collected: 05/04/17 15:33	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 14:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 14:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 14:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 14:14	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 14:14	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 14:14	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 14:14	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 14:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 14:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 14:14	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 14:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 14:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 14:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	86-116	1		05/18/17 14:14	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	84-113	1		05/18/17 14:14	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		05/18/17 14:14	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	493	mg/L	10.0	1		05/11/17 07:41		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:55		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:22	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/17/17 13:35	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.1	mg/L	1.0	1		05/16/17 19:35	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-205-SS DUP	Lab ID: 50170228011	Collected: 05/04/17 15:33	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 18:07		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	32.0	mg/L	2.5	10		05/11/17 18:51	16887-00-6	
Fluoride	0.43	mg/L	0.10	1		05/11/17 18:32	16984-48-8	
Sulfate	51.9	mg/L	2.5	10		05/11/17 18:51	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	147	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:41	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 10:41	7440-42-8	
Calcium	104000	ug/L	500	1	05/11/17 07:41	05/12/17 10:41	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:41	7440-48-4	
Iron	275	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:41	7439-89-6	
Magnesium	56400	ug/L	500	1	05/11/17 07:41	05/12/17 10:41	7439-95-4	
Manganese	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:41	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:41	7440-02-0	
Sodium	15900	ug/L	1000	1	05/11/17 07:41	05/12/17 10:41	7440-23-5	
Total Hardness by 2340B	491000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:41		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:41	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:53	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/11/17 23:53	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7440-47-3	
Copper	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:53	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:53	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/11/17 23:53	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:26	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 14:50	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 14:50	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 14:50	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 14:50	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 14:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 14:50	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 14:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 14:50	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 14:50	75-15-0	L1

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-205-SS DUP	Lab ID: 50170228011	Collected: 05/04/17 15:33	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 14:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 14:50	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 14:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 14:50	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 14:50	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 14:50	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 14:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 14:50	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 14:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 14:50	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 14:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 14:50	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 14:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 14:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 14:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 14:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 14:50	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 14:50	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 14:50	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 14:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 14:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 14:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 14:50	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 14:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 14:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 14:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 14:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 14:50	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 14:50	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 14:50	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 14:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	86-116	1		05/18/17 14:50	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		05/18/17 14:50	460-00-4	
Toluene-d8 (S)	100	%.	86-111	1		05/18/17 14:50	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	515	mg/L	10.0	1		05/10/17 07:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-205-SS DUP	Lab ID: 50170228011	Collected: 05/04/17 15:33	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:56		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:22	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/17/17 13:36	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.0	mg/L	1.0	1		05/16/17 20:06	7440-44-0	
Sample: PZ-106-SD	Lab ID: 50170228012	Collected: 05/04/17 16:52	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.90	Std. Units		1		05/04/17 16:52		
Field Temperature	21.7	deg C		1		05/04/17 16:52		
Field Specific Conductance	1570	umhos/cm		1		05/04/17 16:52		
Field Oxidation Potential	-210	mV		1		05/04/17 16:52		
Oxygen, Dissolved	0.10	mg/L		1		05/04/17 16:52	7782-44-7	
Field Turbidity	0.82	NTU		1		05/04/17 16:52		
Total Well Depth	196.45	feet		1		05/04/17 16:52		
Elevation Water Level	449.74	ft/msl		1		05/04/17 16:52		
Collar Elevation	463.36	ft/msl		1		05/04/17 16:52		
Depth to Water	13.62	feet		1		05/04/17 16:52		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	1.3	mg/L	0.50	1		05/09/17 18:36		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	131	mg/L	25.0	100		05/11/17 21:21	16887-00-6	
Fluoride	1.4	mg/L	0.10	1		05/11/17 20:24	16984-48-8	
Sulfate	53.5	mg/L	2.5	10		05/11/17 21:02	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	342	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:43	7440-39-3	
Boron	544	ug/L	100	1	05/11/17 07:41	05/12/17 10:43	7440-42-8	
Calcium	96600	ug/L	500	1	05/11/17 07:41	05/12/17 10:43	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:43	7440-48-4	
Iron	1040	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:43	7439-89-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-106-SD	Lab ID: 50170228012	Collected: 05/04/17 16:52	Received: 05/06/17 08:45	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	57700	ug/L	500	1	05/11/17 07:41	05/12/17 10:43	7439-95-4	
Manganese	25.6	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:43	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:43	7440-02-0	
Sodium	100000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:43	7440-23-5	
Total Hardness by 2340B	479000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:43		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:43	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:58	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/11/17 23:58	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7440-47-3	
Copper	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/11/17 23:58	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/11/17 23:58	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/11/17 23:58	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:28	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 15:25	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 15:25	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 15:25	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 15:25	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 15:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 15:25	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 15:25	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 15:25	75-15-0	L1
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 15:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 15:25	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 15:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 15:25	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 15:25	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 15:25	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 15:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 15:25	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 15:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 15:25	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 15:25	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 15:25	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 15:25	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-106-SD	Lab ID: 50170228012	Collected: 05/04/17 16:52	Received: 05/06/17 08:45	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		05/18/17 15:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 15:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 15:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 15:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 15:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 15:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 15:25	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 15:25	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 15:25	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 15:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 15:25	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 15:25	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 15:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 15:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 15:25	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 15:25	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 15:25	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 15:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	86-116	1		05/18/17 15:25	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		05/18/17 15:25	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		05/18/17 15:25	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	772	mg/L	10.0	1		05/10/17 07:38		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	63.3	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 11:58		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.059	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:23	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	28.6	mg/L	1.0	10		05/17/17 14:22	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-106-SD	Lab ID: 50170228012	Collected: 05/04/17 16:52	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	19.0	mg/L	1.0	1		05/16/17 20:31	7440-44-0	
Sample: PZ-106-SS	Lab ID: 50170228013	Collected: 05/04/17 17:53	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.93	Std. Units		1		05/04/17 17:53		
Field Temperature	21.4	deg C		1		05/04/17 17:53		
Field Specific Conductance	987	umhos/cm		1		05/04/17 17:53		
Field Oxidation Potential	-150	mV		1		05/04/17 17:53		
Oxygen, Dissolved	0.12	mg/L		1		05/04/17 17:53	7782-44-7	
Field Turbidity	2.39	NTU		1		05/04/17 17:53		
Total Well Depth	161.39	feet		1		05/04/17 17:53		
Elevation Water Level	449.62	ft/msl		1		05/04/17 17:53		
Collar Elevation	462.71	ft/msl		1		05/04/17 17:53		
Depth to Water	13.09	feet		1		05/04/17 17:53		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 19:04		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	43.6	mg/L	2.5	10		05/11/17 20:06	16887-00-6	
Fluoride	1.9	mg/L	0.10	1		05/11/17 19:47	16984-48-8	
Sulfate	46.1	mg/L	2.5	10		05/11/17 20:06	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	181	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:45	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 10:45	7440-42-8	
Calcium	109000	ug/L	500	1	05/11/17 07:41	05/12/17 10:45	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:45	7440-48-4	
Iron	2440	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:45	7439-89-6	
Magnesium	52300	ug/L	500	1	05/11/17 07:41	05/12/17 10:45	7439-95-4	
Manganese	16.6	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:45	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:45	7440-02-0	
Sodium	30800	ug/L	1000	1	05/11/17 07:41	05/12/17 10:45	7440-23-5	
Total Hardness by 2340B	487000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:45		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:45	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7440-36-0	
Arsenic	6.4	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:04	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/12/17 00:04	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-106-SS	Lab ID: 50170228013	Collected: 05/04/17 17:53	Received: 05/06/17 08:45	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	05/09/17 08:30	05/12/17 00:04	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:04	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:04	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/12/17 00:04	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:30	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 16:00	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 16:00	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 16:00	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 16:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 16:00	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 16:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 16:00	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 16:00	75-15-0	L1
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 16:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 16:00	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 16:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 16:00	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 16:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 16:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 16:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 16:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 16:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 16:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 16:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 16:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 16:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 16:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 16:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 16:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 16:00	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 16:00	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 16:00	100-42-5	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-106-SS	Lab ID: 50170228013	Collected: 05/04/17 17:53	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 16:00	79-34-5	
Tetrachloroethylene	ND	ug/L	5.0	1		05/18/17 16:00	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 16:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 16:00	79-00-5	
Trichloroethylene	ND	ug/L	5.0	1		05/18/17 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 16:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 16:00	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 16:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 16:00	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 16:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	86-116	1		05/18/17 16:00	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		05/18/17 16:00	460-00-4	
Toluene-d8 (S)	98	%.	86-111	1		05/18/17 16:00	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	546	mg/L	10.0	1		05/10/17 07:38		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	20.3	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/16/17 12:00		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:23	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	0.19	mg/L	0.10	1		05/17/17 14:23	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	6.0	mg/L	1.0	1		05/16/17 21:49	7440-44-0	

Sample: PZ-100-SD	Lab ID: 50170228014	Collected: 05/05/17 09:04	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.18	Std. Units		1		05/05/17 09:04		
Field Temperature	16.0	deg C		1		05/05/17 09:04		
Field Specific Conductance	609	umhos/cm		1		05/05/17 09:04		
Field Oxidation Potential	-108	mV		1		05/05/17 09:04		
Oxygen, Dissolved	0.35	mg/L		1		05/05/17 09:04	7782-44-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-100-SD	Lab ID: 50170228014	Collected: 05/05/17 09:04	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field Turbidity	1.00	NTU		1		05/05/17 09:04		
Total Well Depth	96.21	feet		1		05/05/17 09:04		
Elevation Water Level	455.22	ft/msl		1		05/05/17 09:04		
Collar Elevation	485.72	ft/msl		1		05/05/17 09:04		
Depth to Water	30.50	feet		1		05/05/17 09:04		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 19:32		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	1.6	mg/L	0.25	1		05/11/17 21:40	16887-00-6	
Fluoride	2.1	mg/L	0.10	1		05/11/17 21:40	16984-48-8	
Sulfate	9.6	mg/L	0.25	1		05/11/17 21:40	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	317	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:48	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 10:48	7440-42-8	
Calcium	76100	ug/L	500	1	05/11/17 07:41	05/12/17 10:48	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:48	7440-48-4	
Iron	683	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:48	7439-89-6	
Magnesium	34300	ug/L	500	1	05/11/17 07:41	05/12/17 10:48	7439-95-4	
Manganese	55.0	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:48	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:48	7440-02-0	
Sodium	6520	ug/L	1000	1	05/11/17 07:41	05/12/17 10:48	7440-23-5	
Total Hardness by 2340B	331000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:48		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:48	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:18	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/12/17 00:18	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7440-47-3	
Copper	ND	ug/L	5.0	1	05/25/17 08:23	05/25/17 17:55	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:18	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:18	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/12/17 00:18	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:32	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/19/17 17:18	67-64-1	M1
Acrylonitrile	ND	ug/L	100	1		05/19/17 17:18	107-13-1	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-100-SD	Lab ID: 50170228014	Collected: 05/05/17 09:04	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								Analytical Method: EPA 8260
Benzene	ND	ug/L	5.0	1		05/19/17 17:18	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/19/17 17:18	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/19/17 17:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/19/17 17:18	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/19/17 17:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/19/17 17:18	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/19/17 17:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/19/17 17:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/19/17 17:18	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/19/17 17:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/19/17 17:18	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/19/17 17:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/19/17 17:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/19/17 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/19/17 17:18	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/19/17 17:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/19/17 17:18	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/19/17 17:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/19/17 17:18	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/19/17 17:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/19/17 17:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/19/17 17:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/19/17 17:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/19/17 17:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/19/17 17:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/19/17 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/19/17 17:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/19/17 17:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/19/17 17:18	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/19/17 17:18	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/19/17 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/19/17 17:18	108-10-1	
Styrene	ND	ug/L	5.0	1		05/19/17 17:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/19/17 17:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/19/17 17:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/19/17 17:18	127-18-4	
Toluene	ND	ug/L	5.0	1		05/19/17 17:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/19/17 17:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/19/17 17:18	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/19/17 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/19/17 17:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/19/17 17:18	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/19/17 17:18	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/19/17 17:18	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/19/17 17:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	86-116	1		05/19/17 17:18	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-100-SD	Lab ID: 50170228014	Collected: 05/05/17 09:04	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	98	%.	84-113	1		05/19/17 17:18	460-00-4	
Toluene-d8 (S)	95	%.	86-111	1		05/19/17 17:18	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	312	mg/L	10.0	1		05/11/17 11:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:01		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:25	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	0.38	mg/L	0.10	1		05/17/17 13:39	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	1.0	mg/L	1.0	1		05/16/17 22:20	7440-44-0	
Sample: PZ-100-SS	Lab ID: 50170228015	Collected: 05/05/17 09:49	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.00	Std. Units		1		05/05/17 09:49		
Field Temperature	16.5	deg C		1		05/05/17 09:49		
Field Specific Conductance	779	umhos/cm		1		05/05/17 09:49		
Field Oxidation Potential	88	mV		1		05/05/17 09:49		
Oxygen, Dissolved	1.03	mg/L		1		05/05/17 09:49	7782-44-7	
Field Turbidity	2.01	NTU		1		05/05/17 09:49		
Total Well Depth	89.33	feet		1		05/05/17 09:49		
Elevation Water Level	456.43	ft/msl		1		05/05/17 09:49		
Collar Elevation	485.75	ft/msl		1		05/05/17 09:49		
Depth to Water	29.32	feet		1		05/05/17 09:49		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 21:26		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	4.6	mg/L	0.25	1		05/11/17 21:58	16887-00-6	
Fluoride	0.62	mg/L	0.10	1		05/11/17 21:58	16984-48-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-100-SS	Lab ID: 50170228015	Collected: 05/05/17 09:49	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Sulfate	34.9	mg/L	2.5	10		05/11/17 22:17	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	68.5	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:54	7440-39-3	
Boron	114	ug/L	100	1	05/11/17 07:41	05/12/17 10:54	7440-42-8	
Calcium	92300	ug/L	500	1	05/11/17 07:41	05/12/17 10:54	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:54	7440-48-4	
Iron	ND	ug/L	50.0	1	05/11/17 07:41	05/12/17 10:54	7439-89-6	
Magnesium	51100	ug/L	500	1	05/11/17 07:41	05/12/17 10:54	7439-95-4	
Manganese	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 10:54	7439-96-5	
Nickel	10.6	ug/L	10.0	1	05/11/17 07:41	05/12/17 10:54	7440-02-0	
Sodium	10500	ug/L	1000	1	05/11/17 07:41	05/12/17 10:54	7440-23-5	
Total Hardness by 2340B	441000	ug/L	1000	1	05/11/17 07:41	05/12/17 10:54		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 10:54	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:23	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/12/17 00:23	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7440-47-3	
Copper	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:23	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:23	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/12/17 00:23	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:34	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 18:37	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 18:37	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 18:37	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 18:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 18:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 18:37	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 18:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 18:37	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 18:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 18:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 18:37	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 18:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 18:37	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 18:37	74-87-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-100-SS	Lab ID: 50170228015	Collected: 05/05/17 09:49	Received: 05/06/17 08:45	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		05/18/17 18:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 18:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 18:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 18:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 18:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 18:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 18:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 18:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 18:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 18:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 18:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 18:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 18:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 18:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 18:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 18:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 18:37	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 18:37	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 18:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 18:37	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 18:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 18:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 18:37	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 18:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 18:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 18:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 18:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 18:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 18:37	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 18:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 18:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 18:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%	86-116	1		05/18/17 18:37	1868-53-7	
4-Bromofluorobenzene (S)	104	%	84-113	1		05/18/17 18:37	460-00-4	
Toluene-d8 (S)	97	%	86-111	1		05/18/17 18:37	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	426	mg/L	10.0	1		05/11/17 11:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	17.4	mg/L	10.0	1	05/16/17 12:25	05/16/17 19:31		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:03		

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-100-SS	Lab ID: 50170228015	Collected: 05/05/17 09:49	Received: 05/06/17 08:45	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	05/17/17 13:30	05/17/17 19:25	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/17/17 13:40	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/16/17 22:50	7440-44-0	
Sample: PZ-201A-SS	Lab ID: 50170228016	Collected: 05/05/17 10:43	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.12	Std. Units		1		05/05/17 10:43		
Field Temperature	16.3	deg C		1		05/05/17 10:43		
Field Specific Conductance	759	umhos/cm		1		05/05/17 10:43		
Field Oxidation Potential	179	mV		1		05/05/17 10:43		
Oxygen, Dissolved	2.74	mg/L		1		05/05/17 10:43	7782-44-7	
Field Turbidity	1.96	NTU		1		05/05/17 10:43		
Total Well Depth	86.28	feet		1		05/05/17 10:43		
Elevation Water Level	469.48	ft/msl		1		05/05/17 10:43		
Collar Elevation	480.20	ft/msl		1		05/05/17 10:43		
Depth to Water	10.72	feet		1		05/05/17 10:43		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 22:22		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	3.8	mg/L	0.25	1		05/11/17 23:14	16887-00-6	
Fluoride	0.42	mg/L	0.10	1		05/11/17 23:14	16984-48-8	
Sulfate	60.9	mg/L	2.5	10		05/11/17 23:32	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	125	ug/L	10.0	1	05/11/17 07:41	05/12/17 11:06	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 11:06	7440-42-8	
Calcium	94300	ug/L	500	1	05/11/17 07:41	05/12/17 11:06	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 11:06	7440-48-4	
Iron	59.4	ug/L	50.0	1	05/11/17 07:41	05/12/17 11:06	7439-89-6	
Magnesium	45300	ug/L	500	1	05/11/17 07:41	05/12/17 11:06	7439-95-4	
Manganese	10.8	ug/L	5.0	1	05/11/17 07:41	05/12/17 11:06	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 11:06	7440-02-0	
Sodium	11400	ug/L	1000	1	05/11/17 07:41	05/12/17 11:06	7440-23-5	
Total Hardness by 2340B	422000	ug/L	1000	1	05/11/17 07:41	05/12/17 11:06		
Zinc	27.0	ug/L	20.0	1	05/11/17 07:41	05/12/17 11:06	7440-66-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-201A-SS	Lab ID: 50170228016	Collected: 05/05/17 10:43	Received: 05/06/17 08:45	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	05/09/17 08:30	05/12/17 00:28	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:28	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/12/17 00:28	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7440-47-3	
Copper	7.0	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:28	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:28	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/12/17 00:28	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:36	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 19:14	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 19:14	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 19:14	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 19:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 19:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 19:14	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 19:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 19:14	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 19:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 19:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 19:14	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 19:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 19:14	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 19:14	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 19:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 19:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 19:14	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 19:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 19:14	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 19:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 19:14	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 19:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 19:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 19:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 19:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 19:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 19:14	100-41-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-201A-SS	Lab ID: 50170228016	Collected: 05/05/17 10:43	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
2-Hexanone	ND	ug/L	10.0	1		05/18/17 19:14	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 19:14	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 19:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 19:14	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 19:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 19:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 19:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 19:14	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 19:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 19:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 19:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 19:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 19:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 19:14	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 19:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 19:14	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 19:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	86-116	1		05/18/17 19:14	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		05/18/17 19:14	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/18/17 19:14	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	458	mg/L	10.0	1		05/11/17 11:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/16/17 12:04	05/16/17 19:04		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	0.35	mg/L	0.10	1		05/16/17 12:05		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:26	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/17/17 13:41	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/16/17 23:21	7440-44-0	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-105-SS	Lab ID: 50170228017	Collected: 05/05/17 12:19	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.98	Std. Units		1		05/05/17 12:19		
Field Temperature	19.9	deg C		1		05/05/17 12:19		
Field Specific Conductance	1038	umhos/cm		1		05/05/17 12:19		
Field Oxidation Potential	-95	mV		1		05/05/17 12:19		
Oxygen, Dissolved	0.26	mg/L		1		05/05/17 12:19	7782-44-7	
Field Turbidity	3.83	NTU		1		05/05/17 12:19		
Total Well Depth	144.82	feet		1		05/05/17 12:19		
Elevation Water Level	461.35	ft/msl		1		05/05/17 12:19		
Collar Elevation	483.51	ft/msl		1		05/05/17 12:19		
Depth to Water	22.16	feet		1		05/05/17 12:19		
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/09/17 21:54		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	64.9	mg/L	2.5	10		05/11/17 16:58	16887-00-6	
Fluoride	0.54	mg/L	0.10	1		05/11/17 16:01	16984-48-8	
Sulfate	45.4	mg/L	2.5	10		05/11/17 16:58	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	182	ug/L	10.0	1	05/11/17 07:41	05/12/17 11:08	7440-39-3	
Boron	ND	ug/L	100	1	05/11/17 07:41	05/12/17 11:08	7440-42-8	
Calcium	107000	ug/L	500	1	05/11/17 07:41	05/12/17 11:08	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/11/17 07:41	05/12/17 11:08	7440-48-4	
Iron	2400	ug/L	50.0	1	05/11/17 07:41	05/12/17 11:08	7439-89-6	
Magnesium	56000	ug/L	500	1	05/11/17 07:41	05/12/17 11:08	7439-95-4	
Manganese	87.8	ug/L	5.0	1	05/11/17 07:41	05/12/17 11:08	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/11/17 07:41	05/12/17 11:08	7440-02-0	
Sodium	42600	ug/L	1000	1	05/11/17 07:41	05/12/17 11:08	7440-23-5	
Total Hardness by 2340B	499000	ug/L	1000	1	05/11/17 07:41	05/12/17 11:08		
Zinc	ND	ug/L	20.0	1	05/11/17 07:41	05/12/17 11:08	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:32	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/09/17 08:30	05/12/17 00:32	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7440-47-3	
Copper	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7440-50-8	
Lead	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7782-49-2	
Silver	ND	ug/L	5.0	1	05/09/17 08:30	05/12/17 00:32	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/09/17 08:30	05/12/17 00:32	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/09/17 08:30	05/12/17 00:32	7440-62-2	N2

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-105-SS	Lab ID: 50170228017	Collected: 05/05/17 12:19	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/20/17 11:13	05/20/17 21:38	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 19:52	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 19:52	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 19:52	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 19:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 19:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 19:52	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 19:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 19:52	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 19:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 19:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 19:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 19:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 19:52	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 19:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 19:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 19:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 19:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 19:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 19:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 19:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 19:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 19:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 19:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 19:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 19:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 19:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 19:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 19:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 19:52	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 19:52	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 19:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 19:52	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 19:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 19:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 19:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 19:52	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 19:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 19:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 19:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 19:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 19:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 19:52	96-18-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-105-SS	Lab ID: 50170228017	Collected: 05/05/17 12:19	Received: 05/06/17 08:45	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 19:52	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 19:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 19:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	86-116	1		05/18/17 19:52	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	84-113	1		05/18/17 19:52	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/18/17 19:52	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	597	mg/L	10.0	1		05/11/17 11:45		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	17.3	mg/L	10.0	1	05/16/17 12:04	05/16/17 19:04		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/16/17 12:11		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:27	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/17/17 13:42	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	2.7	mg/L	1.0	1		05/16/17 23:53	7440-44-0	
Sample: Trip Blank	Lab ID: 50170228018	Collected: 05/05/17 08:00	Received: 05/06/17 08:45	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		05/18/17 20:30	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 20:30	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 20:30	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 20:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 20:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 20:30	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 20:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 20:30	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 20:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 20:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 20:30	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 20:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 20:30	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 20:30	74-87-3	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: Trip Blank	Lab ID: 50170228018	Collected: 05/05/17 08:00	Received: 05/06/17 08:45	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		05/18/17 20:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 20:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 20:30	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 20:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 20:30	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 20:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 20:30	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 20:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 20:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 20:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 20:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 20:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 20:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 20:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 20:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 20:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 20:30	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 20:30	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 20:30	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 20:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 20:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 20:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 20:30	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 20:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 20:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 20:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 20:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 20:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 20:30	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 20:30	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 20:30	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 20:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	86-116	1		05/18/17 20:30	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	84-113	1		05/18/17 20:30	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		05/18/17 20:30	2037-26-5	

Sample: FB @ PZ-104-KS	Lab ID: 50170228019	Collected: 05/08/17 08:40	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/19/17 16:52		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: FB @ PZ-104-KS	Lab ID: 50170228019	Collected: 05/08/17 08:40	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	ND	mg/L	0.25	1		05/22/17 20:17	16887-00-6	
Fluoride	ND	mg/L	0.10	1		05/22/17 20:17	16984-48-8	
Sulfate	ND	mg/L	0.25	1		05/22/17 20:17	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	ND	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:37	7440-39-3	
Boron	ND	ug/L	100	1	05/12/17 11:48	05/16/17 10:37	7440-42-8	
Calcium	ND	ug/L	500	1	05/12/17 11:48	05/16/17 10:37	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:37	7440-48-4	
Iron	ND	ug/L	50.0	1	05/12/17 11:48	05/16/17 10:37	7439-89-6	
Magnesium	ND	ug/L	500	1	05/12/17 11:48	05/16/17 10:37	7439-95-4	
Manganese	ND	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:37	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:37	7440-02-0	
Sodium	ND	ug/L	1000	1	05/12/17 11:48	05/16/17 10:37	7440-23-5	
Total Hardness by 2340B	ND	ug/L	1000	1	05/12/17 11:48	05/16/17 10:37		
Zinc	ND	ug/L	20.0	1	05/12/17 11:48	05/16/17 10:37	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/12/17 08:26	05/15/17 22:14	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/12/17 08:26	05/15/17 22:14	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7440-47-3	
Copper	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7440-50-8	
Lead	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7782-49-2	
Silver	ND	ug/L	5.0	1	05/12/17 08:26	05/15/17 22:14	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/12/17 08:26	05/15/17 22:14	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/12/17 08:26	05/15/17 22:14	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/22/17 11:18	05/23/17 00:39	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 21:07	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 21:07	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 21:07	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 21:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 21:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 21:07	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 21:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 21:07	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 21:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 21:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 21:07	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 21:07	75-00-3	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: FB @ PZ-104-KS	Lab ID: 50170228019	Collected: 05/08/17 08:40	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Chloroform	ND	ug/L	5.0	1		05/18/17 21:07	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 21:07	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 21:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 21:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 21:07	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 21:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 21:07	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 21:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 21:07	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 21:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 21:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 21:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 21:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 21:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 21:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 21:07	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 21:07	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 21:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 21:07	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 21:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 21:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 21:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 21:07	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 21:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 21:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 21:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 21:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 21:07	75-69-4	
1,2,3-Trichloropropene	ND	ug/L	5.0	1		05/18/17 21:07	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 21:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 21:07	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 21:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113	%.	86-116	1		05/18/17 21:07	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	84-113	1		05/18/17 21:07	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/18/17 21:07	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		05/12/17 10:15		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	05/16/17 12:04	05/16/17 19:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: FB @ PZ-104-KS	Lab ID: 50170228019	Collected: 05/08/17 08:40	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:13		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:28	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/19/17 14:16	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		05/18/17 10:57	7440-44-0	
Sample: PZ-104-KS	Lab ID: 50170228020	Collected: 05/08/17 10:20	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	7.07	Std. Units		1		05/08/17 10:20		
Field Temperature	25.3	deg C		1		05/08/17 10:20		
Field Specific Conductance	817	umhos/cm		1		05/08/17 10:20		
Field Oxidation Potential	-231	mV		1		05/08/17 10:20		
Oxygen, Dissolved	0.30	mg/L		1		05/08/17 10:20	7782-44-7	
Field Turbidity	0.36	NTU		1		05/08/17 10:20		
Total Well Depth	93.29	feet		1		05/08/17 10:20		
Elevation Water Level	468.83	ft/msl		1		05/08/17 10:20		
Collar Elevation	483.95	ft/msl		1		05/08/17 10:20		
Depth to Water	15.62	feet		1		05/08/17 10:20		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/11/17 13:14	05/12/17 02:37	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	64	%.	10-108	1	05/11/17 13:14	05/12/17 02:37	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/19/17 17:25		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	40.3	mg/L	2.5	10		05/22/17 20:53	16887-00-6	
Fluoride	1.8	mg/L	0.10	1		05/22/17 20:35	16984-48-8	
Sulfate	23.9	mg/L	0.25	1		05/22/17 20:35	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	92.4	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:40	7440-39-3	
Boron	112	ug/L	100	1	05/12/17 11:48	05/16/17 10:40	7440-42-8	
Calcium	75900	ug/L	500	1	05/12/17 11:48	05/16/17 10:40	7440-70-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-104-KS	Lab ID: 50170228020	Collected: 05/08/17 10:20	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Cobalt	ND	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:40	7440-48-4	
Iron	1140	ug/L	50.0	1	05/12/17 11:48	05/16/17 10:40	7439-89-6	
Magnesium	38000	ug/L	500	1	05/12/17 11:48	05/16/17 10:40	7439-95-4	
Manganese	12.7	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:40	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:40	7440-02-0	
Sodium	34400	ug/L	1000	1	05/12/17 11:48	05/16/17 10:40	7440-23-5	
Total Hardness by 2340B	346000	ug/L	1000	1	05/12/17 11:48	05/16/17 10:40		
Zinc	ND	ug/L	20.0	1	05/12/17 11:48	05/16/17 10:40	7440-66-6	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 200.2						
Antimony	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:15	7440-41-7	1d
Cadmium	ND	ug/L	0.20	1	05/12/17 08:26	05/16/17 00:15	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7440-47-3	
Copper	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7440-50-8	
Lead	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7782-49-2	
Silver	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:15	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:15	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/12/17 08:26	05/16/17 00:15	7440-62-2	N2
7470 Mercury		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
Mercury	ND	ug/L	0.20	1	05/22/17 11:18	05/23/17 00:41	7439-97-6	
8270 Low-volume Full Spike		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:22		
Phenol	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:22	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	74	%.	18-136	1	05/10/17 21:50	05/11/17 19:22	4165-60-0	
2-Fluorobiphenyl (S)	57	%.	10-127	1	05/10/17 21:50	05/11/17 19:22	321-60-8	
p-Terphenyl-d14 (S)	57	%.	16-146	1	05/10/17 21:50	05/11/17 19:22	1718-51-0	
Phenol-d5 (S)	34	%.	10-64	1	05/10/17 21:50	05/11/17 19:22	4165-62-2	
2-Fluorophenol (S)	45	%.	10-76	1	05/10/17 21:50	05/11/17 19:22	367-12-4	
2,4,6-Tribromophenol (S)	68	%.	26-140	1	05/10/17 21:50	05/11/17 19:22	118-79-6	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		05/18/17 21:45	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 21:45	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 21:45	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 21:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 21:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 21:45	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 21:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 21:45	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/18/17 21:45	109-69-3	N2

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-104-KS	Lab ID: 50170228020	Collected: 05/08/17 10:20	Received: 05/10/17 08:35	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		05/18/17 21:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 21:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 21:45	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 21:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 21:45	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 21:45	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 21:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 21:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 21:45	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 21:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 21:45	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 21:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 21:45	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 21:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 21:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 21:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 21:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 21:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 21:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 21:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 21:45	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 21:45	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/18/17 21:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/18/17 21:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 21:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 21:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/18/17 21:45	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/18/17 21:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 21:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 21:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 21:45	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/18/17 21:45	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/18/17 21:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 21:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 21:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 21:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 21:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 21:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 21:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 21:45	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 21:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 21:45	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 21:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	86-116	1		05/18/17 21:45	1868-53-7	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-104-KS	Lab ID: 50170228020	Collected: 05/08/17 10:20	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Surrogates								
4-Bromofluorobenzene (S)	101	%.	84-113	1		05/18/17 21:45	460-00-4	
Toluene-d8 (S)	97	%.	86-111	1		05/18/17 21:45	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	402	mg/L	10.0	1		05/12/17 10:15		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	10.6	mg/L	10.0	1	05/16/17 12:04	05/16/17 19:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		05/11/17 11:23		
353.2 Nitrogen, NO ₂ /NO ₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:14		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/17/17 13:30	05/17/17 19:28	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	0.18	mg/L	0.10	1		05/19/17 14:17	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	10.0	10		05/18/17 11:28	7440-44-0	D3
Sample: PZ-104-SD	Lab ID: 50170228021	Collected: 05/08/17 12:03	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.69	Std. Units		1		05/08/17 12:03		
Field Temperature	26.4	deg C		1		05/08/17 12:03		
Field Specific Conductance	1920	umhos/cm		1		05/08/17 12:03		
Field Oxidation Potential	-188	mV		1		05/08/17 12:03		
Oxygen, Dissolved	0.92	mg/L		1		05/08/17 12:03	7782-44-7	
Field Turbidity	18.39	NTU		1		05/08/17 12:03		
Total Well Depth	120.62	feet		1		05/08/17 12:03		
Elevation Water Level	463.50	ft/msl		1		05/08/17 12:03		
Collar Elevation	483.51	ft/msl		1		05/08/17 12:03		
Depth to Water	20.01	feet		1		05/08/17 12:03		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/11/17 13:14	05/12/17 02:58	11104-28-2	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-104-SD	Lab ID: 50170228021	Collected: 05/08/17 12:03	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
Surrogates								
Tetrachloro-m-xylene (S)	71	%.	10-108	1	05/11/17 13:14	05/12/17 02:58	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	ND	mg/L	0.50	1		05/19/17 17:54		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	3.6	mg/L	0.25	1		05/22/17 21:11	16887-00-6	
Fluoride	0.73	mg/L	0.10	1		05/22/17 21:11	16984-48-8	
Sulfate	17.3	mg/L	0.25	1		05/22/17 21:11	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	105	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:42	7440-39-3	
Boron	135	ug/L	100	1	05/12/17 11:48	05/16/17 10:42	7440-42-8	
Calcium	84000	ug/L	500	1	05/12/17 11:48	05/16/17 10:42	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:42	7440-48-4	
Iron	181	ug/L	50.0	1	05/12/17 11:48	05/16/17 10:42	7439-89-6	
Magnesium	50300	ug/L	500	1	05/12/17 11:48	05/16/17 10:42	7439-95-4	
Manganese	24.3	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:42	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:42	7440-02-0	
Sodium	14700	ug/L	1000	1	05/12/17 11:48	05/16/17 10:42	7440-23-5	
Total Hardness by 2340B	417000	ug/L	1000	1	05/12/17 11:48	05/16/17 10:42		
Zinc	ND	ug/L	20.0	1	05/12/17 11:48	05/16/17 10:42	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7440-36-0	
Arsenic	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:20	7440-41-7	1d
Cadmium	ND	ug/L	0.20	1	05/12/17 08:26	05/16/17 00:20	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7440-47-3	
Copper	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7440-50-8	
Lead	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7782-49-2	
Silver	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:20	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:20	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/12/17 08:26	05/16/17 00:20	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/22/17 11:18	05/23/17 00:43	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:39		
Phenol	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:39	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	76	%.	18-136	1	05/10/17 21:50	05/11/17 19:39	4165-60-0	
2-Fluorobiphenyl (S)	68	%.	10-127	1	05/10/17 21:50	05/11/17 19:39	321-60-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-104-SD	Lab ID: 50170228021	Collected: 05/08/17 12:03	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 Low-volume Full Spike		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Surrogates								
p-Terphenyl-d14 (S)	46	%.	16-146	1	05/10/17 21:50	05/11/17 19:39	1718-51-0	
Phenol-d5 (S)	41	%.	10-64	1	05/10/17 21:50	05/11/17 19:39	4165-62-2	
2-Fluorophenol (S)	55	%.	10-76	1	05/10/17 21:50	05/11/17 19:39	367-12-4	
2,4,6-Tribromophenol (S)	83	%.	26-140	1	05/10/17 21:50	05/11/17 19:39	118-79-6	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	10.0	1		05/18/17 22:23	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 22:23	107-13-1	
Benzene	400	ug/L	25.0	5		05/19/17 16:59	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 22:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 22:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 22:23	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 22:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 22:23	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/18/17 22:23	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 22:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 22:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 22:23	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 22:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 22:23	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 22:23	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 22:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 22:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 22:23	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 22:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 22:23	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 22:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 22:23	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 22:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 22:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 22:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 22:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 22:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 22:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 22:23	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 22:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/18/17 22:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/18/17 22:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 22:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/18/17 22:23	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/18/17 22:23	100-42-5	
1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 22:23	630-20-6	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-104-SD	Lab ID: 50170228021	Collected: 05/08/17 12:03	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 22:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 22:23	127-18-4	
Tetrahydrofuran	1150	ug/L	500	5		05/19/17 16:59	109-99-9	N2
Toluene	34.3	ug/L	5.0	1		05/18/17 22:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 22:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 22:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 22:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 22:23	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 22:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 22:23	75-01-4	
Xylene (Total)	20.4	ug/L	5.0	1		05/18/17 22:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	86-116	1		05/18/17 22:23	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	84-113	1		05/18/17 22:23	460-00-4	
Toluene-d8 (S)	96	%.	86-111	1		05/18/17 22:23	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	391	mg/L	10.0	1		05/12/17 10:15		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	47.2	mg/L	10.0	1	05/16/17 12:04	05/16/17 19:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	10.0	10		05/11/17 11:28		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:16		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1	05/19/17 12:00	05/20/17 16:08	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH ₃ G							
Nitrogen, Ammonia	ND	mg/L	0.10	1		05/19/17 14:18	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	10.0	10		05/18/17 11:58	7440-44-0	D3

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-104-SS	Lab ID: 50170228022	Collected: 05/08/17 14:36	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.50	Std. Units		1		05/08/17 14:36		
Field Temperature	27.0	deg C		1		05/08/17 14:36		
Field Specific Conductance	812	umhos/cm		1		05/08/17 14:36		
Field Oxidation Potential	-287	mV		1		05/08/17 14:36		
Oxygen, Dissolved	0.11	mg/L		1		05/08/17 14:36	7782-44-7	
Field Turbidity	2.41	NTU		1		05/08/17 14:36		
Total Well Depth	140.29	feet		1		05/08/17 14:36		
Elevation Water Level	464.36	ft/msl		1		05/08/17 14:36		
Collar Elevation	483.45	ft/msl		1		05/08/17 14:36		
Depth to Water	19.09	feet		1		05/08/17 14:36		
8082 GCS PCB Waters	Analytical Method: EPA 8082 Preparation Method: EPA 3510							
PCB-1221 (Aroclor 1221)	ND	ug/L	0.20	1	05/11/17 13:14	05/12/17 03:18	11104-28-2	
Surrogates								
Tetrachloro-m-xylene (S)	51	%.	10-108	1	05/11/17 13:14	05/12/17 03:18	877-09-8	
9056 Iodide by IC	Analytical Method: EPA 9056							
Iodide	1.1	mg/L	0.50	1		05/19/17 18:24		N2
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	202	mg/L	25.0	100		05/22/17 18:11	16887-00-6	
Fluoride	0.92	mg/L	0.10	1		05/22/17 16:22	16984-48-8	
Sulfate	10.1	mg/L	0.25	1		05/22/17 16:22	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	574	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:44	7440-39-3	
Boron	791	ug/L	100	1	05/12/17 11:48	05/16/17 10:44	7440-42-8	
Calcium	97700	ug/L	500	1	05/12/17 11:48	05/16/17 10:44	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:44	7440-48-4	
Iron	9760	ug/L	50.0	1	05/12/17 11:48	05/16/17 10:44	7439-89-6	
Magnesium	59600	ug/L	500	1	05/12/17 11:48	05/16/17 10:44	7439-95-4	
Manganese	122	ug/L	5.0	1	05/12/17 11:48	05/16/17 10:44	7439-96-5	
Nickel	48.5	ug/L	10.0	1	05/12/17 11:48	05/16/17 10:44	7440-02-0	
Sodium	132000	ug/L	1000	1	05/12/17 11:48	05/16/17 10:44	7440-23-5	
Total Hardness by 2340B	490000	ug/L	1000	1	05/12/17 11:48	05/16/17 10:44		
Zinc	ND	ug/L	20.0	1	05/12/17 11:48	05/16/17 10:44	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7440-36-0	
Arsenic	16.2	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:24	7440-41-7	1d
Cadmium	ND	ug/L	0.20	1	05/12/17 08:26	05/16/17 00:24	7440-43-9	
Chromium	9.5	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7440-47-3	
Copper	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7440-50-8	
Lead	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-104-SS	Lab ID: 50170228022	Collected: 05/08/17 14:36	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Silver	ND	ug/L	5.0	1	05/12/17 08:26	05/16/17 00:24	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/12/17 08:26	05/16/17 00:24	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/12/17 08:26	05/16/17 00:24	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/22/17 11:18	05/23/17 00:45	7439-97-6	
8270 Low-volume Full Spike	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:55		
Phenol	ND	ug/L	10.0	1	05/10/17 21:50	05/11/17 19:55	108-95-2	
Surrogates								
Nitrobenzene-d5 (S)	70	%.	18-136	1	05/10/17 21:50	05/11/17 19:55	4165-60-0	
2-Fluorobiphenyl (S)	58	%.	10-127	1	05/10/17 21:50	05/11/17 19:55	321-60-8	
p-Terphenyl-d14 (S)	34	%.	16-146	1	05/10/17 21:50	05/11/17 19:55	1718-51-0	
Phenol-d5 (S)	41	%.	10-64	1	05/10/17 21:50	05/11/17 19:55	4165-62-2	
2-Fluorophenol (S)	53	%.	10-76	1	05/10/17 21:50	05/11/17 19:55	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	26-140	1	05/10/17 21:50	05/11/17 19:55	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 23:00	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 23:00	107-13-1	
Benzene	213	ug/L	5.0	1		05/18/17 23:00	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 23:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 23:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 23:00	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 23:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 23:00	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/18/17 23:00	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 23:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 23:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 23:00	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 23:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 23:00	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 23:00	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 23:00	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 23:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 23:00	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 23:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 23:00	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 23:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 23:00	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 23:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 23:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:00	156-60-5	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-104-SS	Lab ID: 50170228022	Collected: 05/08/17 14:36	Received: 05/10/17 08:35	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		05/18/17 23:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 23:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 23:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 23:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 23:00	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 23:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/18/17 23:00	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/18/17 23:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 23:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 23:00	108-10-1	
Methyl-tert-butyl ether	7.9	ug/L	5.0	1		05/18/17 23:00	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/18/17 23:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 23:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 23:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 23:00	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/18/17 23:00	109-99-9	N2
Toluene	25.4	ug/L	5.0	1		05/18/17 23:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 23:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 23:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 23:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 23:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 23:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 23:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 23:00	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 23:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 23:00	75-01-4	
Xylene (Total)	7.4	ug/L	5.0	1		05/18/17 23:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	86-116	1		05/18/17 23:00	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		05/18/17 23:00	460-00-4	
Toluene-d8 (S)	95	%.	86-111	1		05/18/17 23:00	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	883	mg/L	10.0	1		05/12/17 10:15		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	170	mg/L	20.0	1	05/16/17 12:04	05/16/17 19:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D							
Sulfide	ND	mg/L	1.0	1		05/11/17 11:28		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/16/17 12:17		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.13	mg/L	0.050	1	05/19/17 12:00	05/20/17 16:09	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-104-SS	Lab ID: 50170228022	Collected: 05/08/17 14:36	Received: 05/10/17 08:35	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	34.0	mg/L	0.50	5		05/19/17 14:27	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	45.4	mg/L	10.0	10		05/18/17 12:22	7440-44-0	
Sample: Trip Blank	Lab ID: 50170228023	Collected: 05/08/17 08:00	Received: 05/10/17 08:35	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		05/18/17 23:38	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 23:38	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 23:38	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 23:38	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 23:38	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 23:38	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 23:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 23:38	78-93-3	
n-Butyl chloride	ND	ug/L	5.0	1		05/18/17 23:38	109-69-3	N2
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 23:38	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 23:38	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 23:38	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 23:38	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 23:38	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 23:38	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 23:38	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 23:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 23:38	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 23:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 23:38	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 23:38	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 23:38	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 23:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 23:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 23:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 23:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 23:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 23:38	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 23:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 23:38	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 23:38	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		05/18/17 23:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		05/18/17 23:38	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: Trip Blank	Lab ID: 50170228023	Collected: 05/08/17 08:00	Received: 05/10/17 08:35	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		05/18/17 23:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 23:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		05/18/17 23:38	1634-04-4	
Styrene	ND	ug/L	5.0	1		05/18/17 23:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 23:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 23:38	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 23:38	127-18-4	
Tetrahydrofuran	ND	ug/L	100	1		05/18/17 23:38	109-99-9	N2
Toluene	ND	ug/L	5.0	1		05/18/17 23:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 23:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 23:38	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 23:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 23:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 23:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 23:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		05/18/17 23:38	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 23:38	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 23:38	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 23:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	86-116	1		05/18/17 23:38	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	84-113	1		05/18/17 23:38	460-00-4	
Toluene-d8 (S)	94	%.	86-111	1		05/18/17 23:38	2037-26-5	

Sample: PZ-115-SS	Lab ID: 50171104001	Collected: 05/15/17 08:28	Received: 05/16/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.55	Std. Units		1		05/15/17 08:28		
Field Temperature	16.0	deg C		1		05/15/17 08:28		
Field Specific Conductance	2690	umhos/cm		1		05/15/17 08:28		
Field Oxidation Potential	-69	mV		1		05/15/17 08:28		
Oxygen, Dissolved	0.17	mg/L		1		05/15/17 08:28	7782-44-7	
Field Turbidity	4.69	NTU		1		05/15/17 08:28		
Total Well Depth	81.03	feet		1		05/15/17 08:28		
Elevation Water Level	441.47	ft/msl		1		05/15/17 08:28		
Collar Elevation	452.27	ft/msl		1		05/15/17 08:28		
Depth to Water	10.80	feet		1		05/15/17 08:28		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	515	mg/L	25.0	100		05/25/17 19:39	16887-00-6	
Fluoride	0.29	mg/L	0.10	1		05/25/17 19:14	16984-48-8	
Sulfate	3.1	mg/L	0.25	1		05/25/17 19:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-115-SS	Lab ID: 50171104001	Collected: 05/15/17 08:28	Received: 05/16/17 08:30	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	508	ug/L	10.0	1	05/17/17 17:17	05/18/17 13:19	7440-39-3	
Boron	478	ug/L	100	1	05/17/17 17:17	05/18/17 13:19	7440-42-8	
Calcium	220000	ug/L	5000	10	05/17/17 17:17	05/18/17 13:45	7440-70-2	
Cobalt	31.4	ug/L	5.0	1	05/17/17 17:17	05/18/17 13:19	7440-48-4	
Iron	3010	ug/L	50.0	1	05/17/17 17:17	05/18/17 13:19	7439-89-6	
Magnesium	104000	ug/L	500	1	05/17/17 17:17	05/18/17 13:19	7439-95-4	
Manganese	79.7	ug/L	5.0	1	05/17/17 17:17	05/18/17 13:19	7439-96-5	
Nickel	71.1	ug/L	10.0	1	05/17/17 17:17	05/18/17 13:19	7440-02-0	
Sodium	183000	ug/L	1000	1	05/17/17 17:17	05/18/17 13:19	7440-23-5	
Total Hardness by 2340B	977000	ug/L	10000	10	05/17/17 17:17	05/18/17 13:45		
Zinc	ND	ug/L	20.0	1	05/17/17 17:17	05/18/17 13:19	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7440-36-0	
Arsenic	6.4	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/18/17 08:06	05/18/17 22:52	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/18/17 08:06	05/18/17 22:52	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7440-47-3	
Copper	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7440-50-8	
Lead	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7782-49-2	
Silver	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:52	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/18/17 08:06	05/18/17 22:52	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/18/17 08:06	05/18/17 22:52	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/24/17 13:47	05/25/17 12:24	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 16:32	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 16:32	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 16:32	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 16:32	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 16:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 16:32	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 16:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 16:32	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 16:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 16:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 16:32	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 16:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 16:32	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 16:32	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 16:32	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 16:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 16:32	106-93-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-115-SS	Lab ID: 50171104001	Collected: 05/15/17 08:28	Received: 05/16/17 08:30	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		05/18/17 16:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 16:32	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 16:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 16:32	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 16:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 16:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 16:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 16:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 16:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 16:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 16:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 16:32	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 16:32	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 16:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 16:32	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 16:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 16:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 16:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 16:32	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 16:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 16:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 16:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 16:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 16:32	75-69-4	
1,2,3-Trichloropropene	ND	ug/L	5.0	1		05/18/17 16:32	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 16:32	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 16:32	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 16:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	86-116	1		05/18/17 16:32	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		05/18/17 16:32	460-00-4	
Toluene-d8 (S)	104	%.	86-111	1		05/18/17 16:32	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1710	mg/L	10.0	1		05/18/17 07:24		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	31.3	mg/L	10.0	1	05/23/17 13:10	05/23/17 16:18		
353.2 Nitrogen, NO₂/NO₃ pres.	Analytical Method: EPA 353.2							
Nitrogen, NO ₂ plus NO ₃	ND	mg/L	0.10	1		05/21/17 19:47		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	0.26	mg/L	0.050	1	05/26/17 07:50	05/26/17 12:02	7723-14-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: PZ-115-SS	Lab ID: 50171104001	Collected: 05/15/17 08:28	Received: 05/16/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	1.3	mg/L	0.10	1		05/23/17 12:55	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	13.7	mg/L	10.0	10		05/30/17 13:10	7440-44-0	
Sample: PZ-114-AS	Lab ID: 50171104002	Collected: 05/15/17 09:23	Received: 05/16/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	6.53	Std. Units		1		05/15/17 09:23		
Field Temperature	16.8	deg C		1		05/15/17 09:23		
Field Specific Conductance	2480	umhos/cm		1		05/15/17 09:23		
Field Oxidation Potential	-131	mV		1		05/15/17 09:23		
Oxygen, Dissolved	0.15	mg/L		1		05/15/17 09:23	7782-44-7	
Field Turbidity	15.20	NTU		1		05/15/17 09:23		
Total Well Depth	26.04	feet		1		05/15/17 09:23		
Elevation Water Level	435.28	ft/msl		1		05/15/17 09:23		
Collar Elevation	451.26	ft/msl		1		05/15/17 09:23		
Depth to Water	15.98	feet		1		05/15/17 09:23		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	437	mg/L	25.0	100		05/25/17 20:15	16887-00-6	
Fluoride	0.12	mg/L	0.10	1		05/25/17 19:57	16984-48-8	
Sulfate	0.39	mg/L	0.25	1		05/25/17 19:57	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Barium	1000	ug/L	10.0	1	05/17/17 17:17	05/18/17 13:26	7440-39-3	
Boron	288	ug/L	100	1	05/17/17 17:17	05/18/17 13:26	7440-42-8	
Calcium	197000	ug/L	500	1	05/17/17 17:17	05/18/17 13:26	7440-70-2	
Cobalt	ND	ug/L	5.0	1	05/17/17 17:17	05/18/17 13:26	7440-48-4	
Iron	67900	ug/L	50.0	1	05/17/17 17:17	05/18/17 13:26	7439-89-6	
Magnesium	53200	ug/L	500	1	05/17/17 17:17	05/18/17 13:26	7439-95-4	
Manganese	4700	ug/L	5.0	1	05/17/17 17:17	05/18/17 13:26	7439-96-5	
Nickel	ND	ug/L	10.0	1	05/17/17 17:17	05/18/17 13:26	7440-02-0	
Sodium	173000	ug/L	1000	1	05/17/17 17:17	05/18/17 13:26	7440-23-5	
Total Hardness by 2340B	712000	ug/L	1000	1	05/17/17 17:17	05/18/17 13:26		
Zinc	ND	ug/L	20.0	1	05/17/17 17:17	05/18/17 13:26	7440-66-6	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2							
Antimony	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7440-36-0	
Arsenic	106	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7440-38-2	
Beryllium	ND	ug/L	2.0	1	05/18/17 08:06	05/18/17 22:57	7440-41-7	
Cadmium	ND	ug/L	0.20	1	05/18/17 08:06	05/18/17 22:57	7440-43-9	
Chromium	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7440-47-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-114-AS	Lab ID: 50171104002	Collected: 05/15/17 09:23	Received: 05/16/17 08:30	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	05/18/17 08:06	05/18/17 22:57	7440-50-8	
Lead	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7439-92-1	
Selenium	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7782-49-2	
Silver	ND	ug/L	5.0	1	05/18/17 08:06	05/18/17 22:57	7440-22-4	
Thallium	ND	ug/L	2.0	1	05/18/17 08:06	05/18/17 22:57	7440-28-0	
Vanadium	ND	ug/L	10.0	1	05/18/17 08:06	05/18/17 22:57	7440-62-2	N2
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	05/24/17 13:47	05/25/17 12:27	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		05/18/17 17:04	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 17:04	107-13-1	
Benzene	5.0	ug/L	5.0	1		05/18/17 17:04	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 17:04	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 17:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/18/17 17:04	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 17:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 17:04	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 17:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 17:04	56-23-5	
Chlorobenzene	40.9	ug/L	5.0	1		05/18/17 17:04	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 17:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 17:04	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 17:04	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 17:04	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 17:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 17:04	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 17:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 17:04	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 17:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 17:04	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 17:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 17:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 17:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 17:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 17:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 17:04	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 17:04	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 17:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 17:04	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 17:04	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Sample: PZ-114-AS	Lab ID: 50171104002	Collected: 05/15/17 09:23	Received: 05/16/17 08:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 17:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 17:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 17:04	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 17:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 17:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 17:04	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 17:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 17:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 17:04	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 17:04	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 17:04	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 17:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%	86-116	1		05/18/17 17:04	1868-53-7	
4-Bromofluorobenzene (S)	98	%	84-113	1		05/18/17 17:04	460-00-4	
Toluene-d8 (S)	103	%	86-111	1		05/18/17 17:04	2037-26-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	1470	mg/L	20.0	1		05/19/17 09:11		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	32.5	mg/L	10.0	1	05/23/17 13:10	05/23/17 16:18		
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.10	1		05/21/17 19:49		
365.1 Total Phosphorus	Analytical Method: EPA 365.1 Preparation Method: EPA 365.1							
Phosphorus	1.6	mg/L	0.25	5	05/26/17 07:50	05/26/17 12:27	7723-14-0	
4500 Ammonia Water	Analytical Method: SM 4500-NH3 G							
Nitrogen, Ammonia	6.2	mg/L	0.10	1		05/23/17 12:04	7664-41-7	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	11.6	mg/L	10.0	10		05/30/17 13:29	7440-44-0	

Sample: Trip Blank	Lab ID: 50171104003	Collected: 05/15/17 08:00	Received: 05/16/17 08:30	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		05/18/17 17:37	67-64-1	
Acrylonitrile	ND	ug/L	100	1		05/18/17 17:37	107-13-1	
Benzene	ND	ug/L	5.0	1		05/18/17 17:37	71-43-2	
Bromochloromethane	ND	ug/L	5.0	1		05/18/17 17:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		05/18/17 17:37	75-27-4	

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ANALYTICAL RESULTS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Sample: Trip Blank	Lab ID: 50171104003	Collected: 05/15/17 08:00	Received: 05/16/17 08:30	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		05/18/17 17:37	75-25-2	
Bromomethane	ND	ug/L	10.0	1		05/18/17 17:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/18/17 17:37	78-93-3	
Carbon disulfide	ND	ug/L	10.0	1		05/18/17 17:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/18/17 17:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/18/17 17:37	108-90-7	
Chloroethane	ND	ug/L	10.0	1		05/18/17 17:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/18/17 17:37	67-66-3	
Chloromethane	ND	ug/L	10.0	1		05/18/17 17:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		05/18/17 17:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		05/18/17 17:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		05/18/17 17:37	106-93-4	
Dibromomethane	ND	ug/L	10.0	1		05/18/17 17:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 17:37	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/18/17 17:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	10.0	1		05/18/17 17:37	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/18/17 17:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/18/17 17:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/18/17 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/18/17 17:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 17:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/18/17 17:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/18/17 17:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/18/17 17:37	591-78-6	
Iodomethane	ND	ug/L	5.0	1		05/18/17 17:37	74-88-4	
Methylene Chloride	ND	ug/L	5.0	1		05/18/17 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/18/17 17:37	108-10-1	
Styrene	ND	ug/L	5.0	1		05/18/17 17:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 17:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/18/17 17:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/18/17 17:37	127-18-4	
Toluene	ND	ug/L	5.0	1		05/18/17 17:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/18/17 17:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/18/17 17:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/18/17 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		05/18/17 17:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		05/18/17 17:37	96-18-4	
Vinyl acetate	ND	ug/L	10.0	1		05/18/17 17:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		05/18/17 17:37	75-01-4	
Xylene (Total)	ND	ug/L	5.0	1		05/18/17 17:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	86-116	1		05/18/17 17:37	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	84-113	1		05/18/17 17:37	460-00-4	
Toluene-d8 (S)	103	%.	86-111	1		05/18/17 17:37	2037-26-5	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	385649	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008		

METHOD BLANK:	1778957	Matrix:	Water
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	05/08/17 18:45	N2

LABORATORY CONTROL SAMPLE: 1778958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.9	97	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1778959 1778960

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Iodide	mg/L	ND	5	5	5.0	5.1	99	102	80-120	3	15 N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 385877 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 Iodide by IC
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016,
50170228017

METHOD BLANK: 1779587 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016,
50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	05/09/17 15:46	N2

LABORATORY CONTROL SAMPLE: 1779588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	4.6	92	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779589 1779590

Parameter	Units	50170228016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Max Qual
Iodide	mg/L	ND	5	5	5.0	4.8	99	97	80-120	3	15	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	386696	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022			

METHOD BLANK:	1784073	Matrix:	Water
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022			

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Iodide	mg/L	ND	0.50	05/19/17 20:58	N2

LABORATORY CONTROL SAMPLE: 1784074

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Iodide	mg/L	5	4.9	97	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1784075 1784076

Parameter	Units	50170235009	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Iodide	mg/L	ND	5	5	4.8	4.8	96	96	80-120	0	15	N2		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 385443 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007,
50170228008

METHOD BLANK: 1777697 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007,
50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/10/17 12:37	
Fluoride	mg/L	ND	0.10	05/10/17 12:37	
Sulfate	mg/L	ND	0.25	05/10/17 12:37	

LABORATORY CONTROL SAMPLE: 1777698

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	0.47	94	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777699 1777700

Parameter	Units	MS 50169680008		MSD Spike Conc.		MS 50169680008		MSD % Rec		MSD % Rec		% Rec Limits	Max RPD	Max RPD	Qual
		Result	Spike Conc.	Result	MSD % Rec	Result	MSD % Rec								
Chloride	mg/L	3.7	1.2	1.2	4.7	4.7	80	81	80-120	0	15				
Fluoride	mg/L	0.18	.5	.5	0.63	0.63	92	90	80-120	1	15				
Sulfate	mg/L	28.3	25	25	52.4	52.7	96	98	80-120	1	15				

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385878	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
Associated Lab Samples:	50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017		

METHOD BLANK:	1779597	Matrix:	Water
Associated Lab Samples:	50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/11/17 17:54	
Fluoride	mg/L	ND	0.10	05/11/17 17:54	
Sulfate	mg/L	ND	0.25	05/11/17 17:54	

LABORATORY CONTROL SAMPLE: 1779598

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	95	80-120	
Fluoride	mg/L	.5	0.52	103	80-120	
Sulfate	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779599 1779600

Parameter	Units	MS 50170228017	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
		Result	Conc.	Result	Result	Rec	Rec	RPD	RPD	RPD	RPD
Chloride	mg/L	64.9	12.5	12.5	77.0	76.9	97	96	80-120	0	15
Fluoride	mg/L	0.54	.5	.5	1.0	1.1	102	106	80-120	2	15
Sulfate	mg/L	45.4	25	25	70.7	70.3	101	99	80-120	1	15

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386697 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1784083 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/22/17 19:05	
Fluoride	mg/L	ND	0.10	05/22/17 19:05	
Sulfate	mg/L	ND	0.25	05/22/17 19:05	

LABORATORY CONTROL SAMPLE: 1784084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	98	80-120	
Fluoride	mg/L	.5	0.54	108	80-120	
Sulfate	mg/L	2.5	2.5	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1784085 1784086

Parameter	Units	MS 50170228022		MSD Spike		MS 50170228022		MSD Spike		MS 50170228022		MSD Spike		% Rec Limits		Max RPD		Max RPD		Qual	
		Result	Spike Conc.	Conc.	Result	Conc.	Result	% Rec	Result	% Rec	Result	% Rec	Result	% Rec	Limits	RPD	RPD	RPD	RPD	RPD	RPD
Chloride	mg/L	202	125	125	325	324	98	98	80-120	0	15										
Fluoride	mg/L	0.92	.5	.5	1.4	1.4	94	94	80-120	4	15										
Sulfate	mg/L	10.1	2.5	2.5	12.5	12.5	92	92	80-120	1	15										

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388035	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 IC Anions
Associated Lab Samples: 50171104001, 50171104002			

METHOD BLANK: 1789693 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	05/25/17 11:26	
Fluoride	mg/L	ND	0.10	05/25/17 11:26	
Sulfate	mg/L	ND	0.25	05/25/17 11:26	

LABORATORY CONTROL SAMPLE: 1789694

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	0.50	100	80-120	
Sulfate	mg/L	2.5	2.4	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1789695 1789696

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		50171105001	Result	Spike Conc.	MSD Result						
Chloride	mg/L	120	125	125	237	237	94	93	80-120	0	15
Fluoride	mg/L	0.26	.5	.5	0.81	0.81	109	110	80-120	1	15
Sulfate	mg/L	416	250	250	676	674	104	103	80-120	0	15

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386257 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007,
50170228008

METHOD BLANK: 1781629 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007,
50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/17/17 09:56	

LABORATORY CONTROL SAMPLE: 1781630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1781631 1781632

Parameter	Units	50170228002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Mercury	ug/L	ND	5	5	4.9	4.8	99	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch: 387064 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

METHOD BLANK: 1785557 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/20/17 21:19	

LABORATORY CONTROL SAMPLE: 1785558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785559 1785560

Parameter	Units	50170951001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	5.0	95	100	75-125	5	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387065 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1785561 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/22/17 23:46	

LABORATORY CONTROL SAMPLE: 1785562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785563 1785564

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Mercury	ug/L	ND	5	5	4.7	4.5	95	90	75-125	5	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388636	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK: 1792226 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/25/17 11:52	

LABORATORY CONTROL SAMPLE: 1792227

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.1	82	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792228 1792229

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	93	96	75-125	3	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385256	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008		

METHOD BLANK: 1776763 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Barium	ug/L	ND	10.0	05/11/17 10:07	
Boron	ug/L	ND	100	05/11/17 10:07	
Calcium	ug/L	ND	500	05/11/17 10:07	
Cobalt	ug/L	ND	5.0	05/11/17 10:07	
Iron	ug/L	ND	50.0	05/11/17 10:07	
Magnesium	ug/L	ND	500	05/11/17 10:07	
Manganese	ug/L	ND	5.0	05/11/17 10:07	
Nickel	ug/L	ND	10.0	05/11/17 10:07	
Sodium	ug/L	ND	1000	05/11/17 10:07	
Total Hardness by 2340B	ug/L	ND	1000	05/11/17 10:07	
Zinc	ug/L	ND	20.0	05/11/17 10:07	

LABORATORY CONTROL SAMPLE: 1776764

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Barium	ug/L	1000	991	99	80-120	
Boron	ug/L	1000	1010	101	80-120	
Calcium	ug/L	10000	9860	99	80-120	
Cobalt	ug/L	1000	974	97	80-120	
Iron	ug/L	10000	9790	98	80-120	
Magnesium	ug/L	10000	9820	98	80-120	
Manganese	ug/L	1000	957	96	80-120	
Nickel	ug/L	1000	1010	101	80-120	
Sodium	ug/L	10000	9940	99	80-120	
Total Hardness by 2340B	ug/L		65100			
Zinc	ug/L	1000	968	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776765 1776766

Parameter	Units	MS 50170135001	MSD Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	Max	RPD	RPD	Qual
		Result	Conc.	Conc.	Result	Result	Rec	Limits	Limits	RPD			
Barium	ug/L	245	1000	1000	1220	1220	98	98	75-125	0	20		
Boron	ug/L	ND	1000	1000	1030	1040	102	103	75-125	1	20		
Calcium	ug/L	46000	10000	10000	54600	54900	86	89	75-125	1	20		
Cobalt	ug/L	15.7	1000	1000	967	964	95	95	75-125	0	20		
Iron	ug/L	11800	10000	10000	21200	21300	93	95	75-125	1	20		
Magnesium	ug/L	18500	10000	10000	27800	28000	93	94	75-125	0	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1776765		1776766									
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		50170135001	Spike Conc.	Spike Conc.	MSD								
Manganese	ug/L	228	1000	1000	1160	1170	93	94	75-125	0	20		
Nickel	ug/L	ND	1000	1000	997	1000	99	99	75-125	1	20		
Sodium	ug/L	37500	10000	10000	46800	47100	94	96	75-125	1	20		
Total Hardness by 2340B	ug/L	191000			251000	252000						1	20
Zinc	ug/L	31.2	1000	1000	982	978	95	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385941	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017		

METHOD BLANK: 1779925 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	05/12/17 09:42	
Boron	ug/L	ND	100	05/12/17 09:42	
Calcium	ug/L	ND	500	05/12/17 09:42	
Cobalt	ug/L	ND	5.0	05/12/17 09:42	
Iron	ug/L	ND	50.0	05/12/17 09:42	
Magnesium	ug/L	ND	500	05/12/17 09:42	
Manganese	ug/L	ND	5.0	05/12/17 09:42	
Nickel	ug/L	ND	10.0	05/12/17 09:42	
Sodium	ug/L	ND	1000	05/12/17 09:42	
Total Hardness by 2340B	ug/L	ND	1000	05/12/17 09:42	
Zinc	ug/L	ND	20.0	05/12/17 09:42	

LABORATORY CONTROL SAMPLE: 1779926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	1000	100	80-120	
Boron	ug/L	1000	1020	102	80-120	
Calcium	ug/L	10000	10100	101	80-120	
Cobalt	ug/L	1000	970	97	80-120	
Iron	ug/L	10000	9970	100	80-120	
Magnesium	ug/L	10000	9670	97	80-120	
Manganese	ug/L	1000	986	99	80-120	
Nickel	ug/L	1000	986	99	80-120	
Sodium	ug/L	10000	9910	99	80-120	
Total Hardness by 2340B	ug/L	66200	65000	98	80-120	
Zinc	ug/L	1000	970	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779927 1779928

Parameter	Units	MS 50170589001		MSD Spike		MS 50170589001		MSD % Rec		% Rec		Max RPD	RPD Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	MSD % Rec	Limits	RPD	RPD		
Barium	ug/L	26.4	1000	1000	1020	1020	100	100	75-125	0	20		
Boron	ug/L	1370	1000	1000	2340	2350	97	98	75-125	0	20		
Calcium	ug/L	27100	10000	10000	36100	36300	90	92	75-125	1	20		
Cobalt	ug/L	ND	1000	1000	951	945	95	94	75-125	1	20		
Iron	ug/L	ND	10000	10000	9850	9850	98	98	75-125	0	20		
Magnesium	ug/L	6890	10000	10000	15900	16000	90	91	75-125	1	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1779927		1779928							
Parameter	Units	50170589001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual
			Spike Conc.	Spike Conc.								
Manganese	ug/L	ND	1000	1000	974	974	97	97	75-125	0	20	
Nickel	ug/L	ND	1000	1000	964	960	96	96	75-125	0	20	
Sodium	ug/L	230000	10000	10000	235000	211000	54	-188	75-125	11	20	P6
Total Hardness by 2340B	ug/L	96100	66200	66200	156000	157000	90	91	75-125	1	20	
Zinc	ug/L	ND	1000	1000	979	974	98	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386350 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1782098 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	05/16/17 09:45	
Boron	ug/L	ND	100	05/16/17 09:45	
Calcium	ug/L	ND	500	05/16/17 09:45	
Cobalt	ug/L	ND	5.0	05/16/17 09:45	
Iron	ug/L	ND	50.0	05/16/17 09:45	
Magnesium	ug/L	ND	500	05/16/17 09:45	
Manganese	ug/L	ND	5.0	05/16/17 09:45	
Nickel	ug/L	ND	10.0	05/16/17 09:45	
Sodium	ug/L	ND	1000	05/16/17 09:45	
Total Hardness by 2340B	ug/L	ND	1000	05/16/17 09:45	
Zinc	ug/L	ND	20.0	05/16/17 09:45	

LABORATORY CONTROL SAMPLE: 1782099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	996	100	80-120	
Boron	ug/L	1000	997	100	80-120	
Calcium	ug/L	10000	9740	97	80-120	
Cobalt	ug/L	1000	981	98	80-120	
Iron	ug/L	10000	9920	99	80-120	
Magnesium	ug/L	10000	9610	96	80-120	
Manganese	ug/L	1000	954	95	80-120	
Nickel	ug/L	1000	972	97	80-120	
Sodium	ug/L	10000	9580	96	80-120	
Total Hardness by 2340B	ug/L	66200	63900	97	80-120	
Zinc	ug/L	1000	969	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1782100 1782101

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		50170675021	Spike Result	Spike Conc.	Conc.							
Barium	ug/L	202	1000	1000	1180	1200	97	100	75-125	2	20	
Boron	ug/L	57.2	1000	1000	1040	1070	98	101	75-125	3	20	
Calcium	ug/L	30400	10000	10000	40200	40100	98	98	75-125	0	20	
Cobalt	ug/L	ND	1000	1000	945	976	94	97	75-125	3	20	
Iron	ug/L	5760	10000	10000	15400	15600	96	98	75-125	2	20	
Magnesium	ug/L	12000	10000	10000	21600	21700	95	97	75-125	1	20	
Manganese	ug/L	818	1000	1000	1740	1760	92	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1782100		1782101									
Parameter	Units	50170675021		MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result						Limits	RPD	
Nickel	ug/L	15.3	1000	1000	942	972	93	96	75-125	3	20		
Sodium	ug/L	21200	10000	10000	30700	30700	95	95	75-125	0	20		
Total Hardness by 2340B	ug/L	125000	66200	66200	189000	190000	96	97	75-125	0	20		
Zinc	ug/L	ND	1000	1000	943	975	93	97	75-125	3	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387194	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK: 1785972 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	05/18/17 12:37	
Boron	ug/L	ND	100	05/18/17 12:37	
Calcium	ug/L	ND	500	05/18/17 12:37	
Cobalt	ug/L	ND	5.0	05/18/17 12:37	
Iron	ug/L	ND	50.0	05/18/17 12:37	
Magnesium	ug/L	ND	500	05/18/17 12:37	
Manganese	ug/L	ND	5.0	05/18/17 12:37	
Nickel	ug/L	ND	10.0	05/18/17 12:37	
Sodium	ug/L	ND	1000	05/18/17 12:37	
Total Hardness by 2340B	ug/L	ND	1000	05/18/17 12:37	
Zinc	ug/L	ND	20.0	05/18/17 12:37	

LABORATORY CONTROL SAMPLE: 1785973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	982	98	80-120	
Boron	ug/L	1000	998	100	80-120	
Calcium	ug/L	10000	9620	96	80-120	
Cobalt	ug/L	1000	971	97	80-120	
Iron	ug/L	10000	9780	98	80-120	
Magnesium	ug/L	10000	9570	96	80-120	
Manganese	ug/L	1000	945	95	80-120	
Nickel	ug/L	1000	962	96	80-120	
Sodium	ug/L	10000	9590	96	80-120	
Total Hardness by 2340B	ug/L	66200	63400	96	80-120	
Zinc	ug/L	1000	981	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785974 1785975

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
		50170856001	Spike Result	Spike Conc.	MS Result						
Barium	ug/L	24.0	1000	1000	959	954	93	93	75-125	0	20
Boron	ug/L	ND	1000	1000	1100	1090	102	101	75-125	1	20
Calcium	ug/L	92600	10000	10000	99600	97900	71	54	75-125	2	20 P6
Cobalt	ug/L	ND	1000	1000	956	954	96	95	75-125	0	20
Iron	ug/L	357	10000	10000	9870	9770	95	94	75-125	1	20
Magnesium	ug/L	36000	10000	10000	44800	44200	87	81	75-125	1	20
Manganese	ug/L	227	1000	1000	1130	1120	91	90	75-125	1	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1785974	1785975									
Parameter	Units	50170856001	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
			Spike Conc.	Spike Conc.	Result	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Nickel	ug/L	ND	1000	1000	922	921	92	92	75-125	0	20	
Sodium	ug/L	8800	10000	10000	18400	18200	96	94	75-125	1	20	
Total Hardness by 2340B	ug/L	380000	66200	66200	433000	426000	81	71	75-125	2	20	
Zinc	ug/L	ND	1000	1000	992	989	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385454	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008		

METHOD BLANK: 1777812 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Antimony	ug/L	ND	5.0	05/10/17 20:11	
Arsenic	ug/L	ND	5.0	05/10/17 04:14	
Beryllium	ug/L	ND	2.0	05/10/17 04:14	
Cadmium	ug/L	ND	0.20	05/10/17 04:14	
Chromium	ug/L	ND	5.0	05/10/17 04:14	
Copper	ug/L	ND	5.0	05/10/17 04:14	
Lead	ug/L	ND	5.0	05/10/17 04:14	
Selenium	ug/L	ND	5.0	05/10/17 04:14	
Silver	ug/L	ND	5.0	05/10/17 04:14	
Thallium	ug/L	ND	2.0	05/10/17 04:14	
Vanadium	ug/L	ND	10.0	05/10/17 04:14	N2

LABORATORY CONTROL SAMPLE: 1777813

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Antimony	ug/L	40	42.6	107	80-120	
Arsenic	ug/L	40	37.0	93	80-120	
Beryllium	ug/L	40	38.5	96	80-120	
Cadmium	ug/L	40	37.7	94	80-120	
Chromium	ug/L	40	39.8	99	80-120	
Copper	ug/L	40	38.4	96	80-120	
Lead	ug/L	40	38.7	97	80-120	
Selenium	ug/L	40	37.9	95	80-120	
Silver	ug/L	40	38.5	96	80-120	
Thallium	ug/L	40	39.5	99	80-120	
Vanadium	ug/L	40	38.6	97	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777814 1777815

Parameter	Units	MS		MSD		MS		MSD		% Rec	Limits	Max	RPD	RPD	Qual
		50170228003	Result	Spike	Conc.	MS	Result	% Rec	% Rec						
Antimony	ug/L	ND	40	40	44.5	44.3	111	111	111	75-125	0	20			
Arsenic	ug/L	ND	40	40	41.9	45.9	96	106	75-125	9	20				
Beryllium	ug/L	ND	40	40	41.4	41.7	104	104	75-125	1	20				
Cadmium	ug/L	ND	40	40	38.2	38.8	96	97	75-125	2	20				
Chromium	ug/L	ND	40	40	40.2	43.6	98	107	75-125	8	20				
Copper	ug/L	ND	40	40	34.9	35.4	86	88	75-125	1	20				

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1777814		1777815								
Parameter	Units	50170228003	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Lead	ug/L	ND	40	40	41.0	40.9	102	102	75-125	0	20	
Selenium	ug/L	ND	40	40	38.1	43.3	95	108	75-125	13	20	
Silver	ug/L	ND	40	40	37.7	38.2	94	96	75-125	1	20	
Thallium	ug/L	ND	40	40	42.5	42.5	106	106	75-125	0	20	
Vanadium	ug/L	ND	40	40	39.1	42.7	98	107	75-125	9	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385643	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017			

METHOD BLANK: 1778915 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Antimony	ug/L	ND	5.0	05/11/17 22:20	
Arsenic	ug/L	ND	5.0	05/11/17 22:20	
Beryllium	ug/L	ND	2.0	05/11/17 22:20	
Cadmium	ug/L	ND	0.20	05/11/17 22:20	
Chromium	ug/L	ND	5.0	05/11/17 22:20	
Copper	ug/L	ND	5.0	05/11/17 22:20	
Lead	ug/L	ND	5.0	05/11/17 22:20	
Selenium	ug/L	ND	5.0	05/11/17 22:20	
Silver	ug/L	ND	5.0	05/11/17 22:20	
Thallium	ug/L	ND	2.0	05/11/17 22:20	
Vanadium	ug/L	ND	10.0	05/11/17 22:20	N2

LABORATORY CONTROL SAMPLE: 1778916

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Antimony	ug/L	40	41.5	104	80-120	
Arsenic	ug/L	40	38.2	95	80-120	
Beryllium	ug/L	40	40.7	102	80-120	
Cadmium	ug/L	40	41.0	102	80-120	
Chromium	ug/L	40	40.9	102	80-120	
Copper	ug/L	40	40.3	101	80-120	
Lead	ug/L	40	40.6	102	80-120	
Selenium	ug/L	40	39.6	99	80-120	
Silver	ug/L	40	40.0	100	80-120	
Thallium	ug/L	40	40.4	101	80-120	
Vanadium	ug/L	40	40.5	101	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1778917 1778918

Parameter	Units	MS 50170363003	MSD Spike Conc.	MS Spike Conc.	MSD Result	MS % Rec	MSD Result	% Rec	Max	RPD	RPD	Qual
		Result	Conc.	Result	Rec	Limits	RPD	RPD	Qual			
Antimony	ug/L	ND	40	40	43.7	42.1	109	105	75-125	4	20	
Arsenic	ug/L	ND	40	40	40.5	37.8	101	94	75-125	7	20	
Beryllium	ug/L	ND	40	40	42.9	41.3	107	103	75-125	4	20	
Cadmium	ug/L	ND	40	40	41.7	40.2	104	100	75-125	4	20	
Chromium	ug/L	ND	40	40	40.5	39.9	100	99	75-125	2	20	
Copper	ug/L	ND	40	40	41.7	40.1	97	93	75-125	4	20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Parameter	Units	50170363003		MS		MSD		MS Result	% Rec	MSD Result	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result									
Lead	ug/L	ND	40	40	42.7	41.1	105	101	75-125	4	20				
Selenium	ug/L	ND	40	40	40.2	39.5	101	99	75-125	2	20				
Silver	ug/L	ND	40	40	40.3	38.7	101	97	75-125	4	20				
Thallium	ug/L	ND	40	40	42.7	40.5	107	101	75-125	5	20				
Vanadium	ug/L	ND	40	40	40.3	39.6	101	99	75-125	2	20	N2			

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386321 Analysis Method: EPA 6020
QC Batch Method: EPA 200.2 Analysis Description: 6020 MET
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1781922 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	05/15/17 22:05	
Arsenic	ug/L	ND	5.0	05/15/17 22:05	
Beryllium	ug/L	ND	2.0	05/15/17 22:05	
Cadmium	ug/L	ND	0.20	05/15/17 22:05	
Chromium	ug/L	ND	5.0	05/15/17 22:05	
Copper	ug/L	ND	5.0	05/15/17 22:05	
Lead	ug/L	ND	5.0	05/15/17 22:05	
Selenium	ug/L	ND	5.0	05/15/17 22:05	
Silver	ug/L	ND	5.0	05/15/17 22:05	
Thallium	ug/L	ND	2.0	05/15/17 22:05	
Vanadium	ug/L	ND	10.0	05/15/17 22:05	N2

LABORATORY CONTROL SAMPLE: 1781923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	42.6	106	80-120	
Arsenic	ug/L	40	40.0	100	80-120	
Beryllium	ug/L	40	40.9	102	80-120	
Cadmium	ug/L	40	39.6	99	80-120	
Chromium	ug/L	40	42.8	107	80-120	
Copper	ug/L	40	41.3	103	80-120	
Lead	ug/L	40	40.5	101	80-120	
Selenium	ug/L	40	39.0	97	80-120	
Silver	ug/L	40	39.6	99	80-120	
Thallium	ug/L	40	42.0	105	80-120	
Vanadium	ug/L	40	42.1	105	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1781924 1781925

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		50170675026	Spike Result	Spike Conc.	MS Result						
Antimony	ug/L	ND	40	40	44.1	44.8	110	112	75-125	1	20
Arsenic	ug/L	ND	40	40	41.8	41.7	100	100	75-125	0	20
Beryllium	ug/L	ND	40	40	41.6	42.3	104	106	75-125	2	20
Cadmium	ug/L	ND	40	40	39.8	40.3	99	101	75-125	1	20
Chromium	ug/L	ND	40	40	42.4	43.0	105	106	75-125	1	20
Copper	ug/L	2.0	40	40	39.8	40.3	94	96	75-125	1	20
Lead	ug/L	ND	40	40	41.3	41.7	102	103	75-125	1	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1781924	1781925									
Parameter	Units	50170675026 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Selenium	ug/L	ND	40	40	38.3	37.7	96	94	75-125	2	20	
Silver	ug/L	ND	40	40	39.1	39.9	98	100	75-125	2	20	
Thallium	ug/L	ND	40	40	42.8	43.5	107	109	75-125	2	20	
Vanadium	ug/L	ND	40	40	42.2	43.3	105	108	75-125	3	20	N2

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387440	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK: 1786961 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	5.0	05/18/17 20:52	
Arsenic	ug/L	ND	5.0	05/18/17 20:52	
Beryllium	ug/L	ND	2.0	05/18/17 20:52	
Cadmium	ug/L	ND	0.20	05/18/17 20:52	
Chromium	ug/L	ND	5.0	05/18/17 20:52	
Copper	ug/L	ND	5.0	05/18/17 20:52	
Lead	ug/L	ND	5.0	05/18/17 20:52	
Selenium	ug/L	ND	5.0	05/18/17 20:52	
Silver	ug/L	ND	5.0	05/18/17 20:52	
Thallium	ug/L	ND	2.0	05/18/17 20:52	
Vanadium	ug/L	ND	10.0	05/18/17 20:52	N2

LABORATORY CONTROL SAMPLE: 1786962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	40	41.4	103	80-120	
Arsenic	ug/L	40	39.0	97	80-120	
Beryllium	ug/L	40	38.3	96	80-120	
Cadmium	ug/L	40	38.8	97	80-120	
Chromium	ug/L	40	41.5	104	80-120	
Copper	ug/L	40	39.2	98	80-120	
Lead	ug/L	40	39.2	98	80-120	
Selenium	ug/L	40	40.7	102	80-120	
Silver	ug/L	40	38.3	96	80-120	
Thallium	ug/L	40	39.9	100	80-120	
Vanadium	ug/L	40	40.2	101	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786963 1786964

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		50171160004	Spike Result	Spike Conc.	Conc.						
Antimony	ug/L	ND	40	40	42.6	42.8	106	107	75-125	1	20
Arsenic	ug/L	7.4	40	40	46.5	46.6	98	98	75-125	0	20
Beryllium	ug/L	ND	40	40	40.9	40.9	102	102	75-125	0	20
Cadmium	ug/L	ND	40	40	37.2	37.9	93	95	75-125	2	20
Chromium	ug/L	ND	40	40	40.1	40.4	100	100	75-125	1	20
Copper	ug/L	2.4	40	40	38.0	37.4	89	88	75-125	1	20
Lead	ug/L	ND	40	40	39.7	40.2	99	100	75-125	1	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1786963		1786964												
Parameter	Units	MS		MSD		MS	MSD	% Rec	MSD	% Rec	% Rec	Limits	Max RPD	Max RPD	Qual	
		50171160004	Result	Spike Conc.	Spike Conc.											
Selenium	ug/L	ND	40	40	40.9	40.1	102	100	75-125	2	20					
Silver	ug/L	ND	40	40	35.6	35.7	89	89	75-125	1	20					
Thallium	ug/L	ND	40	40	41.8	41.8	104	104	75-125	0	20					
Vanadium	ug/L	ND	40	40	40.1	41.3	100	103	75-125	3	20 N2					

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388826	Analysis Method:	EPA 6020
QC Batch Method:	EPA 200.2	Analysis Description:	6020 MET
Associated Lab Samples:	50170228014		

METHOD BLANK: 1792832 Matrix: Water

Associated Lab Samples: 50170228014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/25/17 17:46	

LABORATORY CONTROL SAMPLE: 1792833

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	40	41.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792834 1792835

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Copper	ug/L	ND	40	40	40.3	40.6	95	96	75-125	1	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385685	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008, 50170228009		

METHOD BLANK:	1779052	Matrix:	Water
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008, 50170228009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,1-Dichloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,1-Dichloroethene	ug/L	ND	5.0	05/08/17 13:49	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/08/17 13:49	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/08/17 13:49	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/08/17 13:49	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/08/17 13:49	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/08/17 13:49	
1,2-Dichloroethane	ug/L	ND	5.0	05/08/17 13:49	
1,2-Dichloropropane	ug/L	ND	5.0	05/08/17 13:49	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/08/17 13:49	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/08/17 13:49	
2-Butanone (MEK)	ug/L	ND	10.0	05/08/17 13:49	
2-Hexanone	ug/L	ND	10.0	05/08/17 13:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/08/17 13:49	
Acetone	ug/L	ND	10.0	05/08/17 13:49	
Acrylonitrile	ug/L	ND	100	05/08/17 13:49	
Benzene	ug/L	ND	5.0	05/08/17 13:49	
Bromochloromethane	ug/L	ND	5.0	05/08/17 13:49	
Bromodichloromethane	ug/L	ND	5.0	05/08/17 13:49	
Bromoform	ug/L	ND	5.0	05/08/17 13:49	
Bromomethane	ug/L	ND	10.0	05/08/17 13:49	
Carbon disulfide	ug/L	ND	10.0	05/08/17 13:49	
Carbon tetrachloride	ug/L	ND	5.0	05/08/17 13:49	
Chlorobenzene	ug/L	ND	5.0	05/08/17 13:49	
Chloroethane	ug/L	ND	10.0	05/08/17 13:49	
Chloroform	ug/L	ND	5.0	05/08/17 13:49	
Chloromethane	ug/L	ND	10.0	05/08/17 13:49	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/08/17 13:49	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/08/17 13:49	
Dibromochloromethane	ug/L	ND	5.0	05/08/17 13:49	
Dibromomethane	ug/L	ND	10.0	05/08/17 13:49	
Ethylbenzene	ug/L	ND	5.0	05/08/17 13:49	
Iodomethane	ug/L	ND	5.0	05/08/17 13:49	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/08/17 13:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/08/17 13:49	
Methylene Chloride	ug/L	ND	5.0	05/08/17 13:49	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

METHOD BLANK: 1779052

Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007,
50170228008, 50170228009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Butyl chloride	ug/L	ND	5.0	05/08/17 13:49	N2
p-Isopropyltoluene	ug/L	ND	5.0	05/08/17 13:49	
Styrene	ug/L	ND	5.0	05/08/17 13:49	
Tetrachloroethene	ug/L	ND	5.0	05/08/17 13:49	
Tetrahydrofuran	ug/L	ND	100	05/08/17 13:49	N2
Toluene	ug/L	ND	5.0	05/08/17 13:49	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/08/17 13:49	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/08/17 13:49	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	05/08/17 13:49	
Trichloroethene	ug/L	ND	5.0	05/08/17 13:49	
Trichlorofluoromethane	ug/L	ND	10.0	05/08/17 13:49	
Vinyl acetate	ug/L	ND	10.0	05/08/17 13:49	
Vinyl chloride	ug/L	ND	2.0	05/08/17 13:49	
Xylene (Total)	ug/L	ND	5.0	05/08/17 13:49	
4-Bromofluorobenzene (S)	%.	105	84-113	05/08/17 13:49	
Dibromofluoromethane (S)	%.	109	86-116	05/08/17 13:49	
Toluene-d8 (S)	%.	93	86-111	05/08/17 13:49	

LABORATORY CONTROL SAMPLE: 1779053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	47.8	96	80-123	
1,1,1-Trichloroethane	ug/L	50	48.0	96	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	74-124	
1,1,2-Trichloroethane	ug/L	50	49.4	99	79-121	
1,1-Dichloroethane	ug/L	50	46.3	93	77-122	
1,1-Dichloroethene	ug/L	50	44.6	89	70-131	
1,2,3-Trichloropropane	ug/L	50	52.0	104	79-128	
1,2,4-Trimethylbenzene	ug/L	50	42.0	84	76-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.5	99	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	81-123	
1,2-Dichlorobenzene	ug/L	50	43.5	87	77-118	
1,2-Dichloroethane	ug/L	50	50.0	100	72-119	
1,2-Dichloropropane	ug/L	50	50.1	100	78-125	
1,3,5-Trimethylbenzene	ug/L	50	42.6	85	79-123	
1,4-Dichlorobenzene	ug/L	50	41.8	84	72-118	
2-Butanone (MEK)	ug/L	250	372	149	61-150	
2-Hexanone	ug/L	250	304	121	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	283	113	71-131	
Acetone	ug/L	250	453	181	39-166 L1	
Acrylonitrile	ug/L	200	216	108	62-130	
Benzene	ug/L	50	46.9	94	79-120	
Bromochloromethane	ug/L	50	52.3	105	69-136	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

LABORATORY CONTROL SAMPLE: 1779053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	51.6	103	76-125	
Bromoform	ug/L	50	48.9	98	69-119	
Bromomethane	ug/L	50	69.5	139	27-161	
Carbon disulfide	ug/L	50	42.2	84	60-130	
Carbon tetrachloride	ug/L	50	52.9	106	74-132	
Chlorobenzene	ug/L	50	43.4	87	77-116	
Chloroethane	ug/L	50	41.9	84	51-132	
Chloroform	ug/L	50	45.0	90	76-118	
Chloromethane	ug/L	50	32.3	65	46-126	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	74-126	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	78-125	
Dibromochloromethane	ug/L	50	49.5	99	80-123	
Dibromomethane	ug/L	50	51.0	102	75-124	
Ethylbenzene	ug/L	50	44.9	90	80-123	
Iodomethane	ug/L	100	69.1	69	43-156	
Isopropylbenzene (Cumene)	ug/L	50	44.7	89	80-122	
Methyl-tert-butyl ether	ug/L	50	47.5	95	63-131	
Methylene Chloride	ug/L	50	35.8	72	62-126	
n-Butyl chloride	ug/L	50	46.2	92	70-130 N2	
p-Isopropyltoluene	ug/L	50	43.1	86	79-124	
Styrene	ug/L	50	44.6	89	81-125	
Tetrachloroethene	ug/L	50	44.9	90	74-119	
Tetrahydrofuran	ug/L	50	55.5J	111	50-150 N2	
Toluene	ug/L	50	41.6	83	77-117	
trans-1,2-Dichloroethene	ug/L	50	45.1	90	74-128	
trans-1,3-Dichloropropene	ug/L	50	50.6	101	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	196	98	42-134	
Trichloroethene	ug/L	50	46.0	92	75-119	
Trichlorofluoromethane	ug/L	50	37.0	74	57-152	
Vinyl acetate	ug/L	200	206	103	71-148	
Vinyl chloride	ug/L	50	40.6	81	62-137	
Xylene (Total)	ug/L	150	132	88	79-121	
4-Bromofluorobenzene (S)	%			101	84-113	
Dibromofluoromethane (S)	%			102	86-116	
Toluene-d8 (S)	%			97	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1779054 1779055

Parameter	Units	MS		MSD		MS Result	MS % Rec	MSD Result	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		50170228003	Result	Spike Conc.	MS Result								
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.3	49.8	101	100	48-143	1	20		
1,1,1-Trichloroethane	ug/L	ND	50	50	49.5	50.8	99	102	52-142	2	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	53.9	57.7	108	115	48-143	7	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	53.8	54.8	108	110	51-139	2	20		
1,1-Dichloroethane	ug/L	ND	50	50	48.6	50.2	97	100	53-139	3	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Parameter	Units	50170228003		1779054		1779055		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result							
1,1-Dichloroethene	ug/L	ND	50	50	46.6	48.3	93	97	50-149	4	20		
1,2,3-Trichloropropane	ug/L	ND	50	50	56.6	61.6	113	123	49-149	9	20		
1,2,4-Trimethylbenzene	ug/L	ND	50	50	40.3	42.4	81	85	33-150	5	20		
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	53.2	58.3	106	117	35-137	9	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.2	52.7	104	105	54-141	1	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	42.4	43.9	85	88	33-142	4	20		
1,2-Dichloroethane	ug/L	ND	50	50	52.4	54.8	105	110	47-138	4	20		
1,2-Dichloropropane	ug/L	ND	50	50	54.0	55.0	108	110	55-142	2	20		
1,3,5-Trimethylbenzene	ug/L	ND	50	50	40.8	42.8	82	86	31-150	5	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	38.4	41.0	77	82	27-140	7	20		
2-Butanone (MEK)	ug/L	ND	250	250	366	405	146	162	39-159	10	20	M1	
2-Hexanone	ug/L	ND	250	250	317	346	127	138	47-151	9	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	313	334	125	134	48-146	6	20		
Acetone	ug/L	ND	250	250	388	431	155	172	31-152	10	20	M0	
Acrylonitrile	ug/L	ND	200	200	235	256	118	128	42-143	8	20		
Benzene	ug/L	ND	50	50	48.6	49.8	97	100	57-136	3	20		
Bromochloromethane	ug/L	ND	50	50	57.2	56.6	114	113	50-145	1	20		
Bromodichloromethane	ug/L	ND	50	50	54.7	55.7	109	111	49-142	2	20		
Bromoform	ug/L	ND	50	50	51.4	54.6	103	109	39-131	6	20		
Bromomethane	ug/L	ND	50	50	74.8	77.2	150	154	10-162	3	20		
Carbon disulfide	ug/L	ND	50	50	42.8	45.1	86	86	34-142	5	20		
Carbon tetrachloride	ug/L	ND	50	50	54.1	55.8	108	112	47-150	3	20		
Chlorobenzene	ug/L	ND	50	50	42.9	44.3	86	89	42-138	3	20		
Chloroethane	ug/L	ND	50	50	49.2	49.9	98	100	34-148	1	20		
Chloroform	ug/L	ND	50	50	47.4	48.8	95	98	54-136	3	20		
Chloromethane	ug/L	ND	50	50	35.7	39.2	71	78	27-138	9	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.0	51.5	100	103	48-147	3	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.9	49.0	98	98	40-142	0	20		
Dibromochloromethane	ug/L	ND	50	50	53.0	53.1	106	106	46-143	0	20		
Dibromomethane	ug/L	ND	50	50	54.9	57.1	110	114	53-140	4	20		
Ethylbenzene	ug/L	ND	50	50	44.3	45.4	89	91	40-147	3	20		
Iodomethane	ug/L	ND	100	100	70.1	77.3	70	77	13-136	10	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	44.2	44.2	88	88	37-151	0	20		
Methyl-tert-butyl ether	ug/L	ND	50	50	50.5	52.4	101	105	46-147	4	20		
Methylene Chloride	ug/L	ND	50	50	39.5	41.0	79	82	40-138	4	20		
n-Butyl chloride	ug/L	ND	50	50	46.7	47.2	93	94	70-130	1	20	N2	
p-Isopropyltoluene	ug/L	ND	50	50	39.1	41.1	78	82	25-156	5	20		
Styrene	ug/L	ND	50	50	40.8	40.6	82	81	34-149	1	20		
Tetrachloroethene	ug/L	ND	50	50	42.3	43.1	85	86	37-144	2	20		
Tetrahydrofuran	ug/L	ND	50	50	61.4J	67.9J	123	136	50-150	20	N2		
Toluene	ug/L	ND	50	50	42.1	42.5	84	85	46-137	1	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	44.8	47.5	90	95	51-145	6	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	50.4	50.7	101	101	41-143	1	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	225	229	112	115	10-145	2	20		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1779054		1779055							
Parameter	Units	50170228003		MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Trichloroethene	ug/L	ND	50	50	46.0	47.3	92	95	45-139	3	20
Trichlorofluoromethane	ug/L	ND	50	50	41.6	43.2	83	86	42-164	4	20
Vinyl acetate	ug/L	ND	200	200	84.7	88.8	42	44	10-149	5	20
Vinyl chloride	ug/L	ND	50	50	46.4	48.1	93	96	43-154	4	20
Xylene (Total)	ug/L	ND	150	150	130	131	87	87	37-146	0	20
4-Bromofluorobenzene (S)	%.						103	100	84-113		
Dibromofluoromethane (S)	%.						104	102	86-116		
Toluene-d8 (S)	%.						98	95	86-111		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387759 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013

METHOD BLANK: 1788376 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,1-Dichloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,1-Dichloroethene	ug/L	ND	5.0	05/18/17 13:39	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/18/17 13:39	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/18/17 13:39	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/18/17 13:39	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/18/17 13:39	
1,2-Dichloroethane	ug/L	ND	5.0	05/18/17 13:39	
1,2-Dichloropropane	ug/L	ND	5.0	05/18/17 13:39	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/18/17 13:39	
2-Butanone (MEK)	ug/L	ND	10.0	05/18/17 13:39	
2-Hexanone	ug/L	ND	10.0	05/18/17 13:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/18/17 13:39	
Acetone	ug/L	ND	10.0	05/18/17 13:39	
Acrylonitrile	ug/L	ND	100	05/18/17 13:39	
Benzene	ug/L	ND	5.0	05/18/17 13:39	
Bromochloromethane	ug/L	ND	5.0	05/18/17 13:39	
Bromodichloromethane	ug/L	ND	5.0	05/18/17 13:39	
Bromoform	ug/L	ND	5.0	05/18/17 13:39	
Bromomethane	ug/L	ND	10.0	05/18/17 13:39	
Carbon disulfide	ug/L	ND	10.0	05/18/17 13:39	
Carbon tetrachloride	ug/L	ND	5.0	05/18/17 13:39	
Chlorobenzene	ug/L	ND	5.0	05/18/17 13:39	
Chloroethane	ug/L	ND	10.0	05/18/17 13:39	
Chloroform	ug/L	ND	5.0	05/18/17 13:39	
Chloromethane	ug/L	ND	10.0	05/18/17 13:39	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 13:39	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 13:39	
Dibromochloromethane	ug/L	ND	5.0	05/18/17 13:39	
Dibromomethane	ug/L	ND	10.0	05/18/17 13:39	
Ethylbenzene	ug/L	ND	5.0	05/18/17 13:39	
Iodomethane	ug/L	ND	5.0	05/18/17 13:39	
Methylene Chloride	ug/L	ND	5.0	05/18/17 13:39	
Styrene	ug/L	ND	5.0	05/18/17 13:39	
Tetrachloroethene	ug/L	ND	5.0	05/18/17 13:39	
Toluene	ug/L	ND	5.0	05/18/17 13:39	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 13:39	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 13:39	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

METHOD BLANK: 1788376 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	05/18/17 13:39	
Trichloroethene	ug/L	ND	5.0	05/18/17 13:39	
Trichlorofluoromethane	ug/L	ND	10.0	05/18/17 13:39	
Vinyl acetate	ug/L	ND	10.0	05/18/17 13:39	
Vinyl chloride	ug/L	ND	2.0	05/18/17 13:39	
Xylene (Total)	ug/L	ND	5.0	05/18/17 13:39	
4-Bromofluorobenzene (S)	%.	95	84-113	05/18/17 13:39	
Dibromofluoromethane (S)	%.	95	86-116	05/18/17 13:39	
Toluene-d8 (S)	%.	98	86-111	05/18/17 13:39	

LABORATORY CONTROL SAMPLE: 1788377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.6	97	80-123	
1,1,1-Trichloroethane	ug/L	50	50.3	101	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	49.3	99	74-124	
1,1,2-Trichloroethane	ug/L	50	48.9	98	79-121	
1,1-Dichloroethane	ug/L	50	49.2	98	77-122	
1,1-Dichloroethene	ug/L	50	42.0	84	70-131	
1,2,3-Trichloropropane	ug/L	50	49.2	98	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	50.7	101	81-123	
1,2-Dichlorobenzene	ug/L	50	47.2	94	77-118	
1,2-Dichloroethane	ug/L	50	51.0	102	72-119	
1,2-Dichloropropane	ug/L	50	50.4	101	78-125	
1,4-Dichlorobenzene	ug/L	50	44.4	89	72-118	
2-Butanone (MEK)	ug/L	250	301	120	61-150	
2-Hexanone	ug/L	250	267	107	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	242	97	71-131	
Acetone	ug/L	250	398	159	39-166	
Acrylonitrile	ug/L	200	244	122	62-130	
Benzene	ug/L	50	47.0	94	79-120	
Bromochloromethane	ug/L	50	44.9	90	69-136	
Bromodichloromethane	ug/L	50	48.8	98	76-125	
Bromoform	ug/L	50	41.6	83	69-119	
Bromomethane	ug/L	50	41.5	83	27-161	
Carbon disulfide	ug/L	50	68.8	138	60-130 L1	
Carbon tetrachloride	ug/L	50	44.6	89	74-132	
Chlorobenzene	ug/L	50	44.8	90	77-116	
Chloroethane	ug/L	50	45.4	91	51-132	
Chloroform	ug/L	50	48.9	98	76-118	
Chloromethane	ug/L	50	43.9	88	46-126	
cis-1,2-Dichloroethene	ug/L	50	45.5	91	74-126	
cis-1,3-Dichloropropene	ug/L	50	48.2	96	78-125	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

LABORATORY CONTROL SAMPLE: 1788377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	45.4	91	80-123	
Dibromomethane	ug/L	50	46.3	93	75-124	
Ethylbenzene	ug/L	50	49.6	99	80-123	
Iodomethane	ug/L	100	95.2	95	43-156	
Methylene Chloride	ug/L	50	57.7	115	62-126	
Styrene	ug/L	50	51.2	102	81-125	
Tetrachloroethene	ug/L	50	45.1	90	74-119	
Toluene	ug/L	50	43.5	87	77-117	
trans-1,2-Dichloroethene	ug/L	50	56.6	113	74-128	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	172	86	42-134	
Trichloroethene	ug/L	50	48.5	97	75-119	
Trichlorofluoromethane	ug/L	50	44.2	88	57-152	
Vinyl acetate	ug/L	200	195	98	71-148	
Vinyl chloride	ug/L	50	50.9	102	62-137	
Xylene (Total)	ug/L	150	147	98	79-121	
4-Bromofluorobenzene (S)	%.			100	84-113	
Dibromofluoromethane (S)	%.			99	86-116	
Toluene-d8 (S)	%.			96	86-111	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387789	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50171104001, 50171104002, 50171104003		

METHOD BLANK: 1788584 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002, 50171104003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,1-Dichloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,1-Dichloroethene	ug/L	ND	5.0	05/18/17 14:55	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/18/17 14:55	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/18/17 14:55	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/18/17 14:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/18/17 14:55	
1,2-Dichloroethane	ug/L	ND	5.0	05/18/17 14:55	
1,2-Dichloropropane	ug/L	ND	5.0	05/18/17 14:55	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/18/17 14:55	
2-Butanone (MEK)	ug/L	ND	10.0	05/18/17 14:55	
2-Hexanone	ug/L	ND	10.0	05/18/17 14:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/18/17 14:55	
Acetone	ug/L	ND	10.0	05/18/17 14:55	
Acrylonitrile	ug/L	ND	100	05/18/17 14:55	
Benzene	ug/L	ND	5.0	05/18/17 14:55	
Bromochloromethane	ug/L	ND	5.0	05/18/17 14:55	
Bromodichloromethane	ug/L	ND	5.0	05/18/17 14:55	
Bromoform	ug/L	ND	5.0	05/18/17 14:55	
Bromomethane	ug/L	ND	10.0	05/18/17 14:55	
Carbon disulfide	ug/L	ND	10.0	05/18/17 14:55	
Carbon tetrachloride	ug/L	ND	5.0	05/18/17 14:55	
Chlorobenzene	ug/L	ND	5.0	05/18/17 14:55	
Chloroethane	ug/L	ND	10.0	05/18/17 14:55	
Chloroform	ug/L	ND	5.0	05/18/17 14:55	
Chloromethane	ug/L	ND	10.0	05/18/17 14:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 14:55	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 14:55	
Dibromochloromethane	ug/L	ND	5.0	05/18/17 14:55	
Dibromomethane	ug/L	ND	10.0	05/18/17 14:55	
Ethylbenzene	ug/L	ND	5.0	05/18/17 14:55	
Iodomethane	ug/L	ND	5.0	05/18/17 14:55	
Methylene Chloride	ug/L	ND	5.0	05/18/17 14:55	
Styrene	ug/L	ND	5.0	05/18/17 14:55	
Tetrachloroethene	ug/L	ND	5.0	05/18/17 14:55	
Toluene	ug/L	ND	5.0	05/18/17 14:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 14:55	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 14:55	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

METHOD BLANK: 1788584

Matrix: Water

Associated Lab Samples: 50171104001, 50171104002, 50171104003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	05/18/17 14:55	
Trichloroethene	ug/L	ND	5.0	05/18/17 14:55	
Trichlorofluoromethane	ug/L	ND	10.0	05/18/17 14:55	
Vinyl acetate	ug/L	ND	10.0	05/18/17 14:55	
Vinyl chloride	ug/L	ND	2.0	05/18/17 14:55	
Xylene (Total)	ug/L	ND	5.0	05/18/17 14:55	
4-Bromofluorobenzene (S)	%.	99	84-113	05/18/17 14:55	
Dibromofluoromethane (S)	%.	101	86-116	05/18/17 14:55	
Toluene-d8 (S)	%.	103	86-111	05/18/17 14:55	

LABORATORY CONTROL SAMPLE: 1788585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.1	96	80-123	
1,1,1-Trichloroethane	ug/L	50	48.3	97	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	74-124	
1,1,2-Trichloroethane	ug/L	50	48.1	96	79-121	
1,1-Dichloroethane	ug/L	50	45.9	92	77-122	
1,1-Dichloroethene	ug/L	50	47.9	96	70-131	
1,2,3-Trichloropropane	ug/L	50	48.6	97	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	42.6	85	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	81-123	
1,2-Dichlorobenzene	ug/L	50	46.2	92	77-118	
1,2-Dichloroethane	ug/L	50	46.0	92	72-119	
1,2-Dichloropropane	ug/L	50	50.5	101	78-125	
1,4-Dichlorobenzene	ug/L	50	43.8	88	72-118	
2-Butanone (MEK)	ug/L	250	266	106	61-150	
2-Hexanone	ug/L	250	267	107	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	268	107	71-131	
Acetone	ug/L	250	241	96	39-166	
Acrylonitrile	ug/L	200	204	102	62-130	
Benzene	ug/L	50	47.0	94	79-120	
Bromochloromethane	ug/L	50	48.9	98	69-136	
Bromodichloromethane	ug/L	50	49.3	99	76-125	
Bromoform	ug/L	50	47.6	95	69-119	
Bromomethane	ug/L	50	46.7	93	27-161	
Carbon disulfide	ug/L	50	44.8	90	60-130	
Carbon tetrachloride	ug/L	50	51.1	102	74-132	
Chlorobenzene	ug/L	50	45.8	92	77-116	
Chloroethane	ug/L	50	50.4	101	51-132	
Chloroform	ug/L	50	46.4	93	76-118	
Chloromethane	ug/L	50	48.2	96	46-126	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	74-126	
cis-1,3-Dichloropropene	ug/L	50	52.6	105	78-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

LABORATORY CONTROL SAMPLE: 1788585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	50.6	101	80-123	
Dibromomethane	ug/L	50	48.2	96	75-124	
Ethylbenzene	ug/L	50	49.3	99	80-123	
Iodomethane	ug/L	100	100	100	43-156	
Methylene Chloride	ug/L	50	46.1	92	62-126	
Styrene	ug/L	50	49.7	99	81-125	
Tetrachloroethene	ug/L	50	45.9	92	74-119	
Toluene	ug/L	50	45.7	91	77-117	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	74-128	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	141	71	42-134	
Trichloroethene	ug/L	50	45.8	92	75-119	
Trichlorofluoromethane	ug/L	50	52.7	105	57-152	
Vinyl acetate	ug/L	200	210	105	71-148	
Vinyl chloride	ug/L	50	51.5	103	62-137	
Xylene (Total)	ug/L	150	146	98	79-121	
4-Bromofluorobenzene (S)	%			99	84-113	
Dibromofluoromethane (S)	%			99	86-116	
Toluene-d8 (S)	%			102	86-111	

MATRIX SPIKE SAMPLE: 1788586

Parameter	Units	50171105001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	50	34.8	70	48-143	
1,1,1-Trichloroethane	ug/L	ND	50	37.7	75	52-142	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	32.2	64	48-143	
1,1,2-Trichloroethane	ug/L	ND	50	35.2	70	51-139	
1,1-Dichloroethane	ug/L	ND	50	35.5	71	53-139	
1,1-Dichloroethene	ug/L	ND	50	38.9	78	50-149	
1,2,3-Trichloropropane	ug/L	ND	50	35.0	70	49-149	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	28.7	57	35-137	
1,2-Dibromoethane (EDB)	ug/L	ND	50	35.5	71	54-141	
1,2-Dichlorobenzene	ug/L	ND	50	32.9	66	33-142	
1,2-Dichloroethane	ug/L	ND	50	34.5	69	47-138	
1,2-Dichloropropane	ug/L	ND	50	38.0	76	55-142	
1,4-Dichlorobenzene	ug/L	ND	50	31.6	63	27-140	
2-Butanone (MEK)	ug/L	ND	250	192	77	39-159	
2-Hexanone	ug/L	ND	250	187	75	47-151	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	186	74	48-146	
Acetone	ug/L	ND	250	185	74	31-152	
Acrylonitrile	ug/L	ND	200	151	76	42-143	
Benzene	ug/L	ND	50	36.4	73	57-136	
Bromochloromethane	ug/L	ND	50	37.8	76	50-145	
Bromodichloromethane	ug/L	ND	50	36.8	74	49-142	
Bromoform	ug/L	ND	50	32.7	65	39-131	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

MATRIX SPIKE SAMPLE:	1788586						
Parameter	Units	50171105001	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	ND	50	26.7	53	10-162	
Carbon disulfide	ug/L	ND	50	36.6	73	34-142	
Carbon tetrachloride	ug/L	ND	50	39.8	80	47-150	
Chlorobenzene	ug/L	ND	50	34.0	68	42-138	
Chloroethane	ug/L	ND	50	41.2	82	34-148	
Chloroform	ug/L	ND	50	35.6	71	54-136	
Chloromethane	ug/L	ND	50	38.9	78	27-138	
cis-1,2-Dichloroethene	ug/L	ND	50	36.8	74	48-147	
cis-1,3-Dichloropropene	ug/L	ND	50	36.9	74	40-142	
Dibromochloromethane	ug/L	ND	50	35.9	72	46-143	
Dibromomethane	ug/L	ND	50	35.6	71	53-140	
Ethylbenzene	ug/L	ND	50	36.1	72	40-147	
Iodomethane	ug/L	ND	100	55.9	56	13-136	
Methylene Chloride	ug/L	ND	50	32.4	65	40-138	
Styrene	ug/L	ND	50	32.7	65	34-149	
Tetrachloroethene	ug/L	ND	50	35.0	70	37-144	
Toluene	ug/L	ND	50	34.4	68	46-137	
trans-1,2-Dichloroethene	ug/L	ND	50	39.7	79	51-145	
trans-1,3-Dichloropropene	ug/L	ND	50	30.7	61	41-143	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	92.8	46	10-145	
Trichloroethene	ug/L	ND	50	35.6	71	45-139	
Trichlorofluoromethane	ug/L	ND	50	43.5	87	42-164	
Vinyl acetate	ug/L	ND	200	122	61	10-149	
Vinyl chloride	ug/L	ND	50	42.6	85	43-154	
Xylene (Total)	ug/L	ND	150	108	72	37-146	
4-Bromofluorobenzene (S)	%.				98	84-113	
Dibromofluoromethane (S)	%.				102	86-116	
Toluene-d8 (S)	%.				103	86-111	

SAMPLE DUPLICATE: 1788587

Parameter	Units	50171105002	Dup Result	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,1-Trichloroethane	ug/L	ND	ND		20	
1,1,2,2-Tetrachloroethane	ug/L	ND	ND		20	
1,1,2-Trichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethane	ug/L	ND	ND		20	
1,1-Dichloroethene	ug/L	ND	ND		20	
1,2,3-Trichloropropane	ug/L	ND	ND		20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND		20	
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1,2-Dichlorobenzene	ug/L	ND	ND		20	
1,2-Dichloroethane	ug/L	ND	ND		20	
1,2-Dichloropropane	ug/L	ND	ND		20	
1,4-Dichlorobenzene	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

SAMPLE DUPLICATE: 1788587

Parameter	Units	50171105002 Result	Dup Result	RPD	Max RPD	Qualifiers
2-Butanone (MEK)	ug/L	ND	ND		20	
2-Hexanone	ug/L	ND	ND		20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	ND		20	
Acetone	ug/L	ND	ND		20	
Acrylonitrile	ug/L	ND	ND		20	
Benzene	ug/L	ND	ND		20	
Bromochloromethane	ug/L	ND	ND		20	
Bromodichloromethane	ug/L	ND	ND		20	
Bromoform	ug/L	ND	ND		20	
Bromomethane	ug/L	ND	ND		20	
Carbon disulfide	ug/L	ND	ND		20	
Carbon tetrachloride	ug/L	ND	ND		20	
Chlorobenzene	ug/L	ND	ND		20	
Chloroethane	ug/L	ND	ND		20	
Chloroform	ug/L	ND	ND		20	
Chloromethane	ug/L	ND	ND		20	
cis-1,2-Dichloroethene	ug/L	ND	4.4J		20	
cis-1,3-Dichloropropene	ug/L	ND	ND		20	
Dibromochloromethane	ug/L	ND	ND		20	
Dibromomethane	ug/L	ND	ND		20	
Ethylbenzene	ug/L	ND	ND		20	
Iodomethane	ug/L	ND	ND		20	
Methylene Chloride	ug/L	ND	ND		20	
Styrene	ug/L	ND	ND		20	
Tetrachloroethene	ug/L	ND	ND		20	
Toluene	ug/L	ND	ND		20	
trans-1,2-Dichloroethene	ug/L	ND	ND		20	
trans-1,3-Dichloropropene	ug/L	ND	ND		20	
trans-1,4-Dichloro-2-butene	ug/L	ND	ND		20	
Trichloroethene	ug/L	ND	ND		20	
Trichlorofluoromethane	ug/L	ND	ND		20	
Vinyl acetate	ug/L	ND	ND		20	
Vinyl chloride	ug/L	ND	ND		20	
Xylene (Total)	ug/L	ND	ND		20	
4-Bromofluorobenzene (S)	%.	99	99	0		
Dibromofluoromethane (S)	%.	100	101	1		
Toluene-d8 (S)	%.	103	103	1		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387826	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV

Associated Lab Samples: 50170228015, 50170228016, 50170228017, 50170228018, 50170228019, 50170228020, 50170228021, 50170228022, 50170228023

METHOD BLANK: 1788692

Matrix: Water

Associated Lab Samples: 50170228015, 50170228016, 50170228017, 50170228018, 50170228019, 50170228020, 50170228021, 50170228022, 50170228023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,1-Dichloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,1-Dichloroethene	ug/L	ND	5.0	05/18/17 15:29	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/18/17 15:29	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	05/18/17 15:29	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/18/17 15:29	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/18/17 15:29	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/18/17 15:29	
1,2-Dichloroethane	ug/L	ND	5.0	05/18/17 15:29	
1,2-Dichloropropane	ug/L	ND	5.0	05/18/17 15:29	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	05/18/17 15:29	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/18/17 15:29	
2-Butanone (MEK)	ug/L	ND	10.0	05/18/17 15:29	
2-Hexanone	ug/L	ND	10.0	05/18/17 15:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/18/17 15:29	
Acetone	ug/L	ND	10.0	05/18/17 15:29	
Acrylonitrile	ug/L	ND	100	05/18/17 15:29	
Benzene	ug/L	ND	5.0	05/18/17 15:29	
Bromochloromethane	ug/L	ND	5.0	05/18/17 15:29	
Bromodichloromethane	ug/L	ND	5.0	05/18/17 15:29	
Bromoform	ug/L	ND	5.0	05/18/17 15:29	
Bromomethane	ug/L	ND	10.0	05/18/17 15:29	
Carbon disulfide	ug/L	ND	10.0	05/18/17 15:29	
Carbon tetrachloride	ug/L	ND	5.0	05/18/17 15:29	
Chlorobenzene	ug/L	ND	5.0	05/18/17 15:29	
Chloroethane	ug/L	ND	10.0	05/18/17 15:29	
Chloroform	ug/L	ND	5.0	05/18/17 15:29	
Chloromethane	ug/L	ND	10.0	05/18/17 15:29	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 15:29	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 15:29	
Dibromochloromethane	ug/L	ND	5.0	05/18/17 15:29	
Dibromomethane	ug/L	ND	10.0	05/18/17 15:29	
Ethylbenzene	ug/L	ND	5.0	05/18/17 15:29	
Iodomethane	ug/L	ND	5.0	05/18/17 15:29	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	05/18/17 15:29	
Methyl-tert-butyl ether	ug/L	ND	5.0	05/18/17 15:29	
Methylene Chloride	ug/L	ND	5.0	05/18/17 15:29	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

METHOD BLANK: 1788692

Matrix: Water

Associated Lab Samples: 50170228015, 50170228016, 50170228017, 50170228018, 50170228019, 50170228020, 50170228021, 50170228022, 50170228023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
n-Butyl chloride	ug/L	ND	5.0	05/18/17 15:29	N2
p-Isopropyltoluene	ug/L	ND	5.0	05/18/17 15:29	
Styrene	ug/L	ND	5.0	05/18/17 15:29	
Tetrachloroethene	ug/L	ND	5.0	05/18/17 15:29	
Tetrahydrofuran	ug/L	ND	100	05/18/17 15:29	N2
Toluene	ug/L	ND	5.0	05/18/17 15:29	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/18/17 15:29	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/18/17 15:29	
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	05/18/17 15:29	
Trichloroethene	ug/L	ND	5.0	05/18/17 15:29	
Trichlorofluoromethane	ug/L	ND	10.0	05/18/17 15:29	
Vinyl acetate	ug/L	ND	10.0	05/18/17 15:29	
Vinyl chloride	ug/L	ND	2.0	05/18/17 15:29	
Xylene (Total)	ug/L	ND	5.0	05/18/17 15:29	
4-Bromofluorobenzene (S)	%.	100	84-113	05/18/17 15:29	
Dibromofluoromethane (S)	%.	104	86-116	05/18/17 15:29	
Toluene-d8 (S)	%.	96	86-111	05/18/17 15:29	

LABORATORY CONTROL SAMPLE: 1788693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	43.4	87	80-123	
1,1,1-Trichloroethane	ug/L	50	40.3	81	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.9	92	74-124	
1,1,2-Trichloroethane	ug/L	50	43.5	87	79-121	
1,1-Dichloroethane	ug/L	50	40.2	80	77-122	
1,1-Dichloroethene	ug/L	50	40.7	81	70-131	
1,2,3-Trichloropropane	ug/L	50	49.0	98	79-128	
1,2,4-Trimethylbenzene	ug/L	50	41.6	83	76-125	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	81-123	
1,2-Dichlorobenzene	ug/L	50	41.2	82	77-118	
1,2-Dichloroethane	ug/L	50	42.5	85	72-119	
1,2-Dichloropropane	ug/L	50	43.1	86	78-125	
1,3,5-Trimethylbenzene	ug/L	50	41.1	82	79-123	
1,4-Dichlorobenzene	ug/L	50	37.8	76	72-118	
2-Butanone (MEK)	ug/L	250	288	115	61-150	
2-Hexanone	ug/L	250	284	114	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	274	110	71-131	
Acetone	ug/L	250	358	143	39-166	
Acrylonitrile	ug/L	200	179	89	62-130	
Benzene	ug/L	50	40.6	81	79-120	
Bromochloromethane	ug/L	50	44.7	89	69-136	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

LABORATORY CONTROL SAMPLE: 1788693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromodichloromethane	ug/L	50	43.5	87	76-125	
Bromoform	ug/L	50	43.0	86	69-119	
Bromomethane	ug/L	50	47.8	96	27-161	
Carbon disulfide	ug/L	50	36.9	74	60-130	
Carbon tetrachloride	ug/L	50	42.1	84	74-132	
Chlorobenzene	ug/L	50	39.7	79	77-116	
Chloroethane	ug/L	50	52.4	105	51-132	
Chloroform	ug/L	50	39.7	79	76-118	
Chloromethane	ug/L	50	42.8	86	46-126	
cis-1,2-Dichloroethene	ug/L	50	39.7	79	74-126	
cis-1,3-Dichloropropene	ug/L	50	44.3	89	78-125	
Dibromochloromethane	ug/L	50	44.2	88	80-123	
Dibromomethane	ug/L	50	44.9	90	75-124	
Ethylbenzene	ug/L	50	41.2	82	80-123	
Iodomethane	ug/L	100	90.6	91	43-156	
Isopropylbenzene (Cumene)	ug/L	50	42.0	84	80-122	
Methyl-tert-butyl ether	ug/L	50	42.9	86	63-131	
Methylene Chloride	ug/L	50	52.3	105	62-126	
n-Butyl chloride	ug/L	50	40.3	81	70-130 N2	
p-Isopropyltoluene	ug/L	50	41.1	82	79-124	
Styrene	ug/L	50	42.5	85	81-125	
Tetrachloroethene	ug/L	50	40.1	80	74-119	
Tetrahydrofuran	ug/L	50	53J	106	50-150 N2	
Toluene	ug/L	50	40.0	80	77-117	
trans-1,2-Dichloroethene	ug/L	50	39.4	79	74-128	
trans-1,3-Dichloropropene	ug/L	50	46.7	93	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	189	94	42-134	
Trichloroethene	ug/L	50	39.8	80	75-119	
Trichlorofluoromethane	ug/L	50	57.0	114	57-152	
Vinyl acetate	ug/L	200	254	127	71-148	
Vinyl chloride	ug/L	50	48.2	96	62-137	
Xylene (Total)	ug/L	150	125	84	79-121	
4-Bromofluorobenzene (S)	%			101	84-113	
Dibromofluoromethane (S)	%			98	86-116	
Toluene-d8 (S)	%			99	86-111	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388095	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	50170228014		

METHOD BLANK: 1790071 Matrix: Water

Associated Lab Samples: 50170228014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,1,1-Trichloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,1-Dichloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,1-Dichloroethene	ug/L	ND	5.0	05/19/17 15:26	
1,2,3-Trichloropropane	ug/L	ND	5.0	05/19/17 15:26	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	05/19/17 15:26	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	05/19/17 15:26	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/19/17 15:26	
1,2-Dichloroethane	ug/L	ND	5.0	05/19/17 15:26	
1,2-Dichloropropane	ug/L	ND	5.0	05/19/17 15:26	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/19/17 15:26	
2-Butanone (MEK)	ug/L	ND	10.0	05/19/17 15:26	
2-Hexanone	ug/L	ND	10.0	05/19/17 15:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/19/17 15:26	
Acetone	ug/L	ND	10.0	05/19/17 15:26	
Acrylonitrile	ug/L	ND	100	05/19/17 15:26	
Benzene	ug/L	ND	5.0	05/19/17 15:26	
Bromochloromethane	ug/L	ND	5.0	05/19/17 15:26	
Bromodichloromethane	ug/L	ND	5.0	05/19/17 15:26	
Bromoform	ug/L	ND	5.0	05/19/17 15:26	
Bromomethane	ug/L	ND	10.0	05/19/17 15:26	
Carbon disulfide	ug/L	ND	10.0	05/19/17 15:26	
Carbon tetrachloride	ug/L	ND	5.0	05/19/17 15:26	
Chlorobenzene	ug/L	ND	5.0	05/19/17 15:26	
Chloroethane	ug/L	ND	10.0	05/19/17 15:26	
Chloroform	ug/L	ND	5.0	05/19/17 15:26	
Chloromethane	ug/L	ND	10.0	05/19/17 15:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/19/17 15:26	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/19/17 15:26	
Dibromochloromethane	ug/L	ND	5.0	05/19/17 15:26	
Dibromomethane	ug/L	ND	10.0	05/19/17 15:26	
Ethylbenzene	ug/L	ND	5.0	05/19/17 15:26	
Iodomethane	ug/L	ND	5.0	05/19/17 15:26	
Methylene Chloride	ug/L	ND	5.0	05/19/17 15:26	
Styrene	ug/L	ND	5.0	05/19/17 15:26	
Tetrachloroethene	ug/L	ND	5.0	05/19/17 15:26	
Toluene	ug/L	ND	5.0	05/19/17 15:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/19/17 15:26	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/19/17 15:26	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

METHOD BLANK: 1790071

Matrix: Water

Associated Lab Samples: 50170228014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
trans-1,4-Dichloro-2-butene	ug/L	ND	10.0	05/19/17 15:26	
Trichloroethene	ug/L	ND	5.0	05/19/17 15:26	
Trichlorofluoromethane	ug/L	ND	10.0	05/19/17 15:26	
Vinyl acetate	ug/L	ND	10.0	05/19/17 15:26	
Vinyl chloride	ug/L	ND	2.0	05/19/17 15:26	
Xylene (Total)	ug/L	ND	5.0	05/19/17 15:26	
4-Bromofluorobenzene (S)	%.	102	84-113	05/19/17 15:26	
Dibromofluoromethane (S)	%.	105	86-116	05/19/17 15:26	
Toluene-d8 (S)	%.	95	86-111	05/19/17 15:26	

LABORATORY CONTROL SAMPLE: 1790072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	80-123	
1,1,1-Trichloroethane	ug/L	50	47.0	94	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	43.1	86	74-124	
1,1,2-Trichloroethane	ug/L	50	44.2	88	79-121	
1,1-Dichloroethane	ug/L	50	45.8	92	77-122	
1,1-Dichloroethene	ug/L	50	45.6	91	70-131	
1,2,3-Trichloropropane	ug/L	50	45.0	90	79-128	
1,2-Dibromo-3-chloropropane	ug/L	50	42.5	85	72-124	
1,2-Dibromoethane (EDB)	ug/L	50	44.0	88	81-123	
1,2-Dichlorobenzene	ug/L	50	43.6	87	77-118	
1,2-Dichloroethane	ug/L	50	44.8	90	72-119	
1,2-Dichloropropane	ug/L	50	47.2	94	78-125	
1,4-Dichlorobenzene	ug/L	50	43.0	86	72-118	
2-Butanone (MEK)	ug/L	250	232	93	61-150	
2-Hexanone	ug/L	250	226	90	67-141	
4-Methyl-2-pentanone (MIBK)	ug/L	250	230	92	71-131	
Acetone	ug/L	250	252	101	39-166	
Acrylonitrile	ug/L	200	173	87	62-130	
Benzene	ug/L	50	45.0	90	79-120	
Bromochloromethane	ug/L	50	47.5	95	69-136	
Bromodichloromethane	ug/L	50	47.5	95	76-125	
Bromoform	ug/L	50	42.4	85	69-119	
Bromomethane	ug/L	50	64.2	128	27-161	
Carbon disulfide	ug/L	50	42.9	86	60-130	
Carbon tetrachloride	ug/L	50	49.5	99	74-132	
Chlorobenzene	ug/L	50	44.0	88	77-116	
Chloroethane	ug/L	50	55.6	111	51-132	
Chloroform	ug/L	50	45.3	91	76-118	
Chloromethane	ug/L	50	40.1	80	46-126	
cis-1,2-Dichloroethene	ug/L	50	44.9	90	74-126	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	78-125	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

LABORATORY CONTROL SAMPLE: 1790072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	45.1	90	80-123	
Dibromomethane	ug/L	50	46.0	92	75-124	
Ethylbenzene	ug/L	50	47.0	94	80-123	
Iodomethane	ug/L	100	95.7	96	43-156	
Methylene Chloride	ug/L	50	56.0	112	62-126	
Styrene	ug/L	50	46.6	93	81-125	
Tetrachloroethene	ug/L	50	44.9	90	74-119	
Toluene	ug/L	50	44.5	89	77-117	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	74-128	
trans-1,3-Dichloropropene	ug/L	50	48.6	97	75-132	
trans-1,4-Dichloro-2-butene	ug/L	200	187	93	42-134	
Trichloroethene	ug/L	50	44.9	90	75-119	
Trichlorofluoromethane	ug/L	50	64.4	129	57-152	
Vinyl acetate	ug/L	200	223	111	71-148	
Vinyl chloride	ug/L	50	48.0	96	62-137	
Xylene (Total)	ug/L	150	139	93	79-121	
4-Bromofluorobenzene (S)	%			98	84-113	
Dibromofluoromethane (S)	%			99	86-116	
Toluene-d8 (S)	%			99	86-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1790073

1790074

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		50170228014	Result	Spike Conc.	MSD Spike Conc.						
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	53.0	51.3	106	103	48-143	3	20
1,1,1-Trichloroethane	ug/L	ND	50	50	49.4	48.8	99	98	52-142	1	20
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.6	54.0	111	108	48-143	3	20
1,1,2-Trichloroethane	ug/L	ND	50	50	53.0	51.6	106	103	51-139	3	20
1,1-Dichloroethane	ug/L	ND	50	50	49.3	48.0	99	96	53-139	3	20
1,1-Dichloroethene	ug/L	ND	50	50	46.3	47.0	93	94	50-149	2	20
1,2,3-Trichloropropane	ug/L	ND	50	50	59.9	58.0	120	116	49-149	3	20
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	57.3	56.3	115	113	35-137	2	20
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	54.7	53.6	109	107	54-141	2	20
1,2-Dichlorobenzene	ug/L	ND	50	50	48.9	47.3	98	95	33-142	3	20
1,2-Dichloroethane	ug/L	ND	50	50	52.9	50.2	106	100	47-138	5	20
1,2-Dichloropropane	ug/L	ND	50	50	52.6	51.1	105	102	55-142	3	20
1,4-Dichlorobenzene	ug/L	ND	50	50	45.7	44.3	91	89	27-140	3	20
2-Butanone (MEK)	ug/L	ND	250	250	359	329	144	132	39-159	9	20
2-Hexanone	ug/L	ND	250	250	349	330	140	132	47-151	6	20
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	341	322	137	129	48-146	6	20
Acetone	ug/L	ND	250	250	408	395	163	158	31-152	3	20 M1
Acrylonitrile	ug/L	ND	200	200	223	209	111	104	42-143	7	20
Benzene	ug/L	ND	50	50	49.9	48.2	100	96	57-136	3	20
Bromochloromethane	ug/L	ND	50	50	55.2	52.8	110	106	50-145	4	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Parameter	Units	50170228014		1790073		1790074		MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec					
Bromodichloromethane	ug/L	ND	50	50	53.5	51.7	107	103	49-142	3	20	
Bromoform	ug/L	ND	50	50	51.8	50.1	104	100	39-131	3	20	
Bromomethane	ug/L	ND	50	50	55.8	53.2	112	106	10-162	5	20	
Carbon disulfide	ug/L	ND	50	50	44.9	43.8	90	88	34-142	3	20	
Carbon tetrachloride	ug/L	ND	50	50	52.3	50.7	105	101	47-150	3	20	
Chlorobenzene	ug/L	ND	50	50	47.3	47.3	95	95	42-138	0	20	
Chloroethane	ug/L	ND	50	50	55.6	55.4	111	111	34-148	0	20	
Chloroform	ug/L	ND	50	50	49.0	47.5	98	95	54-136	3	20	
Chloromethane	ug/L	ND	50	50	46.1	45.4	92	91	27-138	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.6	47.8	97	96	48-147	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	53.6	52.5	107	105	40-142	2	20	
Dibromochloromethane	ug/L	ND	50	50	54.0	51.7	108	103	46-143	4	20	
Dibromomethane	ug/L	ND	50	50	54.8	52.8	110	106	53-140	4	20	
Ethylbenzene	ug/L	ND	50	50	50.3	49.8	101	100	40-147	1	20	
Iodomethane	ug/L	ND	100	100	99.9	104	100	104	13-136	4	20	
Methylene Chloride	ug/L	ND	50	50	59.1	56.2	118	112	40-138	5	20	
Styrene	ug/L	ND	50	50	51.1	50.3	102	101	34-149	2	20	
Tetrachloroethene	ug/L	ND	50	50	48.3	48.3	97	97	37-144	0	20	
Toluene	ug/L	ND	50	50	48.3	47.5	97	95	46-137	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.3	46.6	95	93	51-145	1	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	57.0	55.7	114	111	41-143	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	277	261	138	130	10-145	6	20	
Trichloroethene	ug/L	ND	50	50	48.4	47.0	97	94	45-139	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	61.8	61.4	124	123	42-164	1	20	
Vinyl acetate	ug/L	ND	200	200	274	255	137	128	10-149	7	20	
Vinyl chloride	ug/L	ND	50	50	52.7	51.5	105	103	43-154	2	20	
Xylene (Total)	ug/L	ND	150	150	151	150	101	100	37-146	1	20	
4-Bromofluorobenzene (S)	%.						101	101	84-113			
Dibromofluoromethane (S)	%.						101	101	86-116			
Toluene-d8 (S)	%.						98	100	86-111			

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385211	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3510	Analysis Description:	8082 GCS PCB Mod
Associated Lab Samples: 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008			

METHOD BLANK:	1776465	Matrix:	Water
Associated Lab Samples: 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	05/05/17 15:55	
Tetrachloro-m-xylene (S)	%.	69	10-108	05/05/17 15:55	

LABORATORY CONTROL SAMPLE:	1776466	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			63	10-108	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	386270	Analysis Method:	EPA 8082
QC Batch Method:	EPA 3510	Analysis Description:	8082 GCS PCB Mod
Associated Lab Samples:	50170228020, 50170228021, 50170228022		

METHOD BLANK: 1781667 Matrix: Water

Associated Lab Samples: 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	0.20	05/11/17 20:43	
Tetrachloro-m-xylene (S)	%.	41	10-108	05/11/17 20:43	

LABORATORY CONTROL SAMPLE: 1781668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloro-m-xylene (S)	%.			66	10-108	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1781669 1781670

Parameter	Units	50170658011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Tetrachloro-m-xylene (S)	%.						69	60	10-108		

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385391	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water Low Volume MSSV
Associated Lab Samples:	50170228003, 50170228004, 50170228005, 50170228006, 50170228008		

METHOD BLANK: 1777425 Matrix: Water

Associated Lab Samples: 50170228003, 50170228004, 50170228005, 50170228006, 50170228008

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/06/17 14:05	
Phenol	ug/L	ND	10.0	05/06/17 14:05	
2,4,6-Tribromophenol (S)	%.	69	26-140	05/06/17 14:05	
2-Fluorobiphenyl (S)	%.	49	10-127	05/06/17 14:05	
2-Fluorophenol (S)	%.	52	10-76	05/06/17 14:05	
Nitrobenzene-d5 (S)	%.	55	18-136	05/06/17 14:05	
p-Terphenyl-d14 (S)	%.	57	16-146	05/06/17 14:05	
Phenol-d5 (S)	%.	39	10-64	05/06/17 14:05	

LABORATORY CONTROL SAMPLE: 1777426

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
3&4-Methylphenol(m&p Cresol)	ug/L	100	65.1	65	27-105	
Phenol	ug/L	100	49.5	50	10-72	
2,4,6-Tribromophenol (S)	%.			83	26-140	
2-Fluorobiphenyl (S)	%.			59	10-127	
2-Fluorophenol (S)	%.			45	10-76	
Nitrobenzene-d5 (S)	%.			53	18-136	
p-Terphenyl-d14 (S)	%.			76	16-146	
Phenol-d5 (S)	%.			42	10-64	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	385815	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water Low Volume MSSV
Associated Lab Samples:	50170228007		

METHOD BLANK: 1779418 Matrix: Water

Associated Lab Samples: 50170228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/09/17 14:49	
Phenol	ug/L	ND	10.0	05/09/17 14:49	
2,4,6-Tribromophenol (S)	%.	73	26-140	05/09/17 14:49	
2-Fluorobiphenyl (S)	%.	73	10-127	05/09/17 14:49	
2-Fluorophenol (S)	%.	79	10-76	05/09/17 14:49	S3
Nitrobenzene-d5 (S)	%.	75	18-136	05/09/17 14:49	
p-Terphenyl-d14 (S)	%.	90	16-146	05/09/17 14:49	
Phenol-d5 (S)	%.	65	10-64	05/09/17 14:49	S3

LABORATORY CONTROL SAMPLE: 1779419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	88.4	88	27-105	
Phenol	ug/L	100	63.5	63	10-72	
2,4,6-Tribromophenol (S)	%.			92	26-140	
2-Fluorobiphenyl (S)	%.			76	10-127	
2-Fluorophenol (S)	%.			59	10-76	
Nitrobenzene-d5 (S)	%.			81	18-136	
p-Terphenyl-d14 (S)	%.			83	16-146	
Phenol-d5 (S)	%.			50	10-64	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	386219	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 Water Low Volume MSSV
Associated Lab Samples: 50170228020, 50170228021, 50170228022			

METHOD BLANK: 1781537 Matrix: Water

Associated Lab Samples: 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/11/17 18:49	
Phenol	ug/L	ND	10.0	05/11/17 18:49	
2,4,6-Tribromophenol (S)	%.	70	26-140	05/11/17 18:49	
2-Fluorobiphenyl (S)	%.	42	10-127	05/11/17 18:49	
2-Fluorophenol (S)	%.	46	10-76	05/11/17 18:49	
Nitrobenzene-d5 (S)	%.	71	18-136	05/11/17 18:49	
p-Terphenyl-d14 (S)	%.	74	16-146	05/11/17 18:49	
Phenol-d5 (S)	%.	35	10-64	05/11/17 18:49	

LABORATORY CONTROL SAMPLE: 1781538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3&4-Methylphenol(m&p Cresol)	ug/L	100	59.7	60	27-105	
Phenol	ug/L	100	43.6	44	10-72	
2,4,6-Tribromophenol (S)	%.			80	26-140	
2-Fluorobiphenyl (S)	%.			64	10-127	
2-Fluorophenol (S)	%.			42	10-76	
Nitrobenzene-d5 (S)	%.			66	18-136	
p-Terphenyl-d14 (S)	%.			71	16-146	
Phenol-d5 (S)	%.			35	10-64	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 385577 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006

METHOD BLANK: 1778724 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/08/17 08:36	

LABORATORY CONTROL SAMPLE: 1778725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 1778726

Parameter	Units	50170194002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	665	682	3	10	

SAMPLE DUPLICATE: 1778727

Parameter	Units	50170259003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	388	376	3	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch: 385788 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50170228007, 50170228008

METHOD BLANK: 1779346 Matrix: Water

Associated Lab Samples: 50170228007, 50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/09/17 06:57	

LABORATORY CONTROL SAMPLE: 1779347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	267	89	80-120	

SAMPLE DUPLICATE: 1779348

Parameter	Units	50170208002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	979	964	2	10	

SAMPLE DUPLICATE: 1779349

Parameter	Units	50170275004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1240	1210	2	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386015 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50170228011, 50170228012, 50170228013

METHOD BLANK: 1780263 Matrix: Water

Associated Lab Samples: 50170228011, 50170228012, 50170228013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/10/17 07:30	

LABORATORY CONTROL SAMPLE: 1780264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	266	89	80-120	

SAMPLE DUPLICATE: 1780265

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50170363002	219	202	8	10

SAMPLE DUPLICATE: 1780266

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50170535002	328	345	5	10

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	386240	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50170228010		

METHOD BLANK:	1781588	Matrix:	Water
Associated Lab Samples:	50170228010		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/11/17 07:41	

LABORATORY CONTROL SAMPLE: 1781589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 1781590

Parameter	Units	50170228010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	493	496	1	10	

SAMPLE DUPLICATE: 1781591

Parameter	Units	50170454014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	685	691	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386241 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50170228014, 50170228015, 50170228016, 50170228017

METHOD BLANK: 1781592 Matrix: Water

Associated Lab Samples: 50170228014, 50170228015, 50170228016, 50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/11/17 11:45	

LABORATORY CONTROL SAMPLE: 1781593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 1781594

Parameter	Units	50170228014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	312	319	2	10	

SAMPLE DUPLICATE: 1781595

Parameter	Units	50170530002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	959	960	0	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	386543	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50170228019, 50170228020, 50170228021, 50170228022		

METHOD BLANK: 1783248 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/12/17 10:08	

LABORATORY CONTROL SAMPLE: 1783249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	285	95	80-120	

SAMPLE DUPLICATE: 1783250

Parameter	Units	50170589004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	256	271	6	10	

SAMPLE DUPLICATE: 1783251

Parameter	Units	50170720003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3130	3090	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387638	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50171104001		

METHOD BLANK: 1787924 Matrix: Water

Associated Lab Samples: 50171104001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/18/17 07:14	

LABORATORY CONTROL SAMPLE: 1787925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	266	89	80-120	

SAMPLE DUPLICATE: 1787927

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1710	1700	1	10	

SAMPLE DUPLICATE: 1787928

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	117000	118000	1	10	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387909	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	50171104002		

METHOD BLANK:	1789114	Matrix:	Water
Associated Lab Samples:	50171104002		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	05/19/17 09:15	

LABORATORY CONTROL SAMPLE: 1789115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	265	88	80-120	

SAMPLE DUPLICATE: 1789116

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50171102004	644	608	6	10

SAMPLE DUPLICATE: 1789117

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	50171109009	102	103	1	10

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	386602	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008		

METHOD BLANK: 1783479 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/15/17 13:11	

LABORATORY CONTROL SAMPLE: 1783480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1783481 1783482

Parameter	Units	50170228001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	49.1	49.6	93	94	90-110	1	20	

MATRIX SPIKE SAMPLE: 1783504

Parameter	Units	50170363007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	52.4	105	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387174 Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015

METHOD BLANK: 1785877 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/16/17 19:31	

LABORATORY CONTROL SAMPLE: 1785878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785879 1785880

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	55.2	49.3	108	96	90-110	11	20

MATRIX SPIKE SAMPLE: 1785881

Parameter	Units	50170581001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L		16.0	50	59.0	86	90-110 M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387176 Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD

Associated Lab Samples: 50170228016, 50170228017, 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1785891 Matrix: Water

Associated Lab Samples: 50170228016, 50170228017, 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/16/17 19:04	

LABORATORY CONTROL SAMPLE: 1785892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.1	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785893 1785894

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	ND	50	50	56.0	53.2	96	90	90-110	5	20

MATRIX SPIKE SAMPLE: 1785895

Parameter	Units	50170228022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	170	100	240	70	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388563	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK: 1791883 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/23/17 16:18	

LABORATORY CONTROL SAMPLE: 1791884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.9	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1791885 1791886

Parameter	Units	50171054002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Chemical Oxygen Demand	mg/L	ND	50	50	44.6	44.5	82	82	90-110	0	20	M3

MATRIX SPIKE SAMPLE: 1791887

Parameter	Units	50171105008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	51.4	93	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 385305 Analysis Method: SM 4500-S2-D

QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water

Associated Lab Samples: 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

METHOD BLANK: 1777121 Matrix: Water

Associated Lab Samples: 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	05/04/17 16:55	

LABORATORY CONTROL SAMPLE: 1777122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.5J	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1777123 1777124

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Sulfide	mg/L	ND	.5	.5	.24J	.23J	43	42	90-110	2	20 M0

MATRIX SPIKE SAMPLE: 1777125

Parameter	Units	50170228003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.5	.28J	55	90-110 M3

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386305 Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 50170228020, 50170228021, 50170228022

METHOD BLANK: 1781857 Matrix: Water

Associated Lab Samples: 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	05/11/17 10:53	

LABORATORY CONTROL SAMPLE: 1781858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.5	.48J	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1781859 1781860

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Sulfide	mg/L	ND	.5	.5	.12J	.12J	21	20	90-110	5	20 M3

MATRIX SPIKE SAMPLE: 1781861

Parameter	Units	50170228020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	.5	.77J	60	90-110	M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387172	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008, 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017, 50170228019, 50170228020, 50170228021, 50170228022			

METHOD BLANK:	1785870	Matrix:	Water
Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008, 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017, 50170228019, 50170228020, 50170228021, 50170228022			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	0.10	05/16/17 11:29	

LABORATORY CONTROL SAMPLE:	1785871						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers	
Nitrogen, NO ₂ plus NO ₃	mg/L	2	2.0	100	90-110		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1785872	1785873										
Parameter	Units	50170228001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	2	2.0	2.0	100	101	90-110	1	20	

MATRIX SPIKE SAMPLE:	1785874											
Parameter	Units	50170228002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers					
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	2	2.2	107	90-110						

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	388241	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, preserved
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK:	1790905	Matrix:	Water
Associated Lab Samples:	50171104001, 50171104002		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	ND	0.10	05/21/17 18:55	

LABORATORY CONTROL SAMPLE: 1790906

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1790907 1790908

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD % Rec	MS % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Nitrogen, NO ₂ plus NO ₃	mg/L	0.029	2	2	1.4	1.4	69	68	90-110	0	20	M3

MATRIX SPIKE SAMPLE: 1790909

Parameter	Units	50170675023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO ₂ plus NO ₃	mg/L	2.3	2	4.4	103	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	387503	Analysis Method:	EPA 365.1
QC Batch Method:	EPA 365.1	Analysis Description:	365.1 Total Phosphorus
Associated Lab Samples:	50170228001, 50170228002, 50170228003, 50170228004, 50170228005		

METHOD BLANK: 1787237 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	05/17/17 18:59	

LABORATORY CONTROL SAMPLE: 1787238

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1787239 1787240

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Phosphorus	mg/L	ND	.5	.5	0.46	0.56	91	110	90-110	19	20

MATRIX SPIKE SAMPLE: 1787241

Parameter	Units	50170585002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	0.091	.5	0.59	101	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch: 387504 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50170228006, 50170228007, 50170228008, 50170228010, 50170228011, 50170228012, 50170228013,
50170228014, 50170228015, 50170228016, 50170228017, 50170228019, 50170228020

METHOD BLANK: 1787242 Matrix: Water
Associated Lab Samples: 50170228006, 50170228007, 50170228008, 50170228010, 50170228011, 50170228012, 50170228013,
50170228014, 50170228015, 50170228016, 50170228017, 50170228019, 50170228020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	05/17/17 19:16	

LABORATORY CONTROL SAMPLE: 1787243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.49	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1787244 1787245

Parameter	Units	50170228006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD RPD	Max Qual
Phosphorus	mg/L	ND	.5	.5	0.53	0.54	100	102	90-110	1	20

MATRIX SPIKE SAMPLE: 1787246

Parameter	Units	50170228007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.55	101	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387940 Analysis Method: EPA 365.1

QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus

Associated Lab Samples: 50170228021, 50170228022

METHOD BLANK: 1789194 Matrix: Water

Associated Lab Samples: 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	05/20/17 15:53	

LABORATORY CONTROL SAMPLE: 1789195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	.5	0.51	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1789196 1789197

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Phosphorus	mg/L	ND	.5	.5	0.52	0.52	102	101	90-110	1	20

MATRIX SPIKE SAMPLE: 1789199

Parameter	Units	50170454013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	ND	.5	0.60	101	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 389257 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Total Phosphorus
Associated Lab Samples: 50171104001, 50171104002

METHOD BLANK: 1794999 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	05/26/17 11:14	

LABORATORY CONTROL SAMPLE: 1795000

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: 1795001 1795002

Parameter	Units	50170946002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Max Qual
Phosphorus	mg/L	0.83	.5	.5	1.4	1.4	120	105	90-110	5	20	M0

MATRIX SPIKE SAMPLE: 1795003

Parameter	Units	50171059001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	1.1	.5	1.7	109	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386461 Analysis Method: SM 4500-NH3 G

QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

METHOD BLANK: 1782869 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003, 50170228004, 50170228005, 50170228006, 50170228007, 50170228008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/12/17 14:15	

LABORATORY CONTROL SAMPLE: 1782870

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: 1782871 1782872

Parameter	Units	50169970004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, Ammonia	mg/L	9.3	1	1	9.8	9.9	51	55	90-110	0	20	P6

MATRIX SPIKE SAMPLE: 1782873

Parameter	Units	50170235004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	1	1.0	96	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch: 386941 Analysis Method: SM 4500-NH3 G
QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

METHOD BLANK: 1785175 Matrix: Water
Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016, 50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/17/17 13:24	

LABORATORY CONTROL SAMPLE: 1785176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785177 1785178

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Nitrogen, Ammonia	mg/L	ND	1	1	1.1	1.1	109	109	90-110	0	20

MATRIX SPIKE SAMPLE: 1785179

Parameter	Units	50170361005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L		1.1	1	1.9	89	90-110 M0

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 387735 Analysis Method: SM 4500-NH3 G

QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1788228 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/19/17 13:52	

LABORATORY CONTROL SAMPLE: 1788229

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: 1788230 1788231

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	1.0	1.0	101	99	90-110	1	20

MATRIX SPIKE SAMPLE: 1788232

Parameter	Units	50170675029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.9	1	3.8	95	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 388326 Analysis Method: SM 4500-NH3 G

QC Batch Method: SM 4500-NH3 G Analysis Description: 4500 Ammonia

Associated Lab Samples: 50171104001, 50171104002

METHOD BLANK: 1791130 Matrix: Water

Associated Lab Samples: 50171104001, 50171104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/23/17 11:52	

LABORATORY CONTROL SAMPLE: 1791131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1791132 1791133

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.79	1	1	1.8	1.8	100	97	90-110	2	20

MATRIX SPIKE SAMPLE: 1791134

Parameter	Units	50171105006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.32	1	1.3	93	90-110	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386296 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50170228001, 50170228002, 50170228003

METHOD BLANK: 1781807 Matrix: Water

Associated Lab Samples: 50170228001, 50170228002, 50170228003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/12/17 01:19	

LABORATORY CONTROL SAMPLE: 1781808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1781809 1781810

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Total Organic Carbon	mg/L	ND	10	10	9.4	9.4	94	94	80-120	0	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	386605	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	50170228006, 50170228007, 50170228008		

METHOD BLANK:	1783491	Matrix:	Water
Associated Lab Samples:	50170228006, 50170228007, 50170228008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/15/17 10:56	

LABORATORY CONTROL SAMPLE: 1783492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1783493 1783494

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	100	100	94.2	95.1	94	95	80-120	1	20

MATRIX SPIKE SAMPLE: 1783495

Parameter	Units	50170589005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	10	94	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386886 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016,
50170228017

METHOD BLANK: 1784971 Matrix: Water

Associated Lab Samples: 50170228010, 50170228011, 50170228012, 50170228013, 50170228014, 50170228015, 50170228016,
50170228017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/16/17 10:47	

LABORATORY CONTROL SAMPLE: 1784972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.1	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1784973 1784974

Parameter	Units	50170338004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.1	10	10	13.7	13.7	96	95	80-120	0	20	

MATRIX SPIKE SAMPLE: 1784975

Parameter	Units	50170228017 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.7	10	12.4	97	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch:	386960	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	50170228004, 50170228005		

METHOD BLANK: 1785250 Matrix: Water

Associated Lab Samples: 50170228004, 50170228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/17/17 17:45	

LABORATORY CONTROL SAMPLE: 1785251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	9.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1785252 1785253

Parameter	Units	50170454001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	9.8	9.6	90	88	80-120	2	20	

MATRIX SPIKE SAMPLE: 1785254

Parameter	Units	50170631031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	10	9.5	92	80-120	

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REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

QC Batch: 386961 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

METHOD BLANK: 1785255 Matrix: Water

Associated Lab Samples: 50170228019, 50170228020, 50170228021, 50170228022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/18/17 08:08	

LABORATORY CONTROL SAMPLE: 1785256

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: 1785257 1785258

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Max Qual
Total Organic Carbon	mg/L	ND	10	10	9.2	9.2	91	90	80-120	0	20

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QUALITY CONTROL DATA

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

QC Batch:	389298	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	50171104001, 50171104002		

METHOD BLANK:	1795223	Matrix:	Water
Associated Lab Samples:	50171104001, 50171104002		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	05/26/17 22:55	

LABORATORY CONTROL SAMPLE: 1795224

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.3	103	90-110	

MATRIX SPIKE SAMPLE: 1795227

Parameter	Units	50170635012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	40	41.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1795550 1795551

Parameter	Units	50170761001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	40	40	42.9	42.5	98	97	80-120	1	20	

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QUALIFIERS

Project: Bridgeton 2017Q2 DMP Sampling
 Pace Project No.: 50170228

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 385211

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 385391

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 385815

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 386219

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

- 1d The continuing calibration blank for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limit. Result unaffected by high bias.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- N2 The lab does not hold NELAC/TNI accreditation for this parameter.
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALIFIERS

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

ANALYTE QUALIFIERS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling
 Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228001	PZ-111-SD		388872		
50170228002	PZ-109-SS		388872		
50170228003	PZ-210-SD		388872		
50170228004	PZ-210-SS		388872		
50170228005	PZ-211-SD		388872		
50170228006	PZ-211-SS		388872		
50170228007	PZ-209-SD		388872		
50170228008	PZ-209-SS		388872		
50170228010	PZ-205-SS		388872		
50170228012	PZ-106-SD		388872		
50170228013	PZ-106-SS		388872		
50170228014	PZ-100-SD		388872		
50170228015	PZ-100-SS		388872		
50170228016	PZ-201A-SS		388872		
50170228017	PZ-105-SS		388872		
50170228020	PZ-104-KS		388872		
50170228021	PZ-104-SD		388872		
50170228022	PZ-104-SS		388872		
50171104001	PZ-115-SS		388882		
50171104002	PZ-114-AS		388882		
50170228003	PZ-210-SD	EPA 3510	385211	EPA 8082	385308
50170228004	PZ-210-SS	EPA 3510	385211	EPA 8082	385308
50170228005	PZ-211-SD	EPA 3510	385211	EPA 8082	385308
50170228006	PZ-211-SS	EPA 3510	385211	EPA 8082	385308
50170228007	PZ-209-SD	EPA 3510	385211	EPA 8082	385308
50170228008	PZ-209-SS	EPA 3510	385211	EPA 8082	385308
50170228020	PZ-104-KS	EPA 3510	386270	EPA 8082	386491
50170228021	PZ-104-SD	EPA 3510	386270	EPA 8082	386491
50170228022	PZ-104-SS	EPA 3510	386270	EPA 8082	386491
50170228001	PZ-111-SD	EPA 9056	385649		
50170228002	PZ-109-SS	EPA 9056	385649		
50170228003	PZ-210-SD	EPA 9056	385649		
50170228004	PZ-210-SS	EPA 9056	385649		
50170228005	PZ-211-SD	EPA 9056	385649		
50170228006	PZ-211-SS	EPA 9056	385649		
50170228007	PZ-209-SD	EPA 9056	385649		
50170228008	PZ-209-SS	EPA 9056	385649		
50170228010	PZ-205-SS	EPA 9056	385877		
50170228011	PZ-205-SS DUP	EPA 9056	385877		
50170228012	PZ-106-SD	EPA 9056	385877		
50170228013	PZ-106-SS	EPA 9056	385877		
50170228014	PZ-100-SD	EPA 9056	385877		
50170228015	PZ-100-SS	EPA 9056	385877		
50170228016	PZ-201A-SS	EPA 9056	385877		
50170228017	PZ-105-SS	EPA 9056	385877		
50170228019	FB @ PZ-104-KS	EPA 9056	386696		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228020	PZ-104-KS	EPA 9056	386696		
50170228021	PZ-104-SD	EPA 9056	386696		
50170228022	PZ-104-SS	EPA 9056	386696		
50170228001	PZ-111-SD	EPA 9056	385443		
50170228002	PZ-109-SS	EPA 9056	385443		
50170228003	PZ-210-SD	EPA 9056	385443		
50170228004	PZ-210-SS	EPA 9056	385443		
50170228005	PZ-211-SD	EPA 9056	385443		
50170228006	PZ-211-SS	EPA 9056	385443		
50170228007	PZ-209-SD	EPA 9056	385443		
50170228008	PZ-209-SS	EPA 9056	385443		
50170228010	PZ-205-SS	EPA 9056	385878		
50170228011	PZ-205-SS DUP	EPA 9056	385878		
50170228012	PZ-106-SD	EPA 9056	385878		
50170228013	PZ-106-SS	EPA 9056	385878		
50170228014	PZ-100-SD	EPA 9056	385878		
50170228015	PZ-100-SS	EPA 9056	385878		
50170228016	PZ-201A-SS	EPA 9056	385878		
50170228017	PZ-105-SS	EPA 9056	385878		
50170228019	FB @ PZ-104-KS	EPA 9056	386697		
50170228020	PZ-104-KS	EPA 9056	386697		
50170228021	PZ-104-SD	EPA 9056	386697		
50170228022	PZ-104-SS	EPA 9056	386697		
50171104001	PZ-115-SS	EPA 9056	388035		
50171104002	PZ-114-AS	EPA 9056	388035		
50170228001	PZ-111-SD	EPA 3010	385256	EPA 6010	386277
50170228002	PZ-109-SS	EPA 3010	385256	EPA 6010	386277
50170228003	PZ-210-SD	EPA 3010	385256	EPA 6010	386277
50170228004	PZ-210-SS	EPA 3010	385256	EPA 6010	386277
50170228005	PZ-211-SD	EPA 3010	385256	EPA 6010	386277
50170228006	PZ-211-SS	EPA 3010	385256	EPA 6010	386277
50170228007	PZ-209-SD	EPA 3010	385256	EPA 6010	386277
50170228008	PZ-209-SS	EPA 3010	385256	EPA 6010	386277
50170228010	PZ-205-SS	EPA 3010	385941	EPA 6010	386549
50170228011	PZ-205-SS DUP	EPA 3010	385941	EPA 6010	386549
50170228012	PZ-106-SD	EPA 3010	385941	EPA 6010	386549
50170228013	PZ-106-SS	EPA 3010	385941	EPA 6010	386549
50170228014	PZ-100-SD	EPA 3010	385941	EPA 6010	386549
50170228015	PZ-100-SS	EPA 3010	385941	EPA 6010	386549
50170228016	PZ-201A-SS	EPA 3010	385941	EPA 6010	386549
50170228017	PZ-105-SS	EPA 3010	385941	EPA 6010	386549
50170228019	FB @ PZ-104-KS	EPA 3010	386350	EPA 6010	387125
50170228020	PZ-104-KS	EPA 3010	386350	EPA 6010	387125
50170228021	PZ-104-SD	EPA 3010	386350	EPA 6010	387125
50170228022	PZ-104-SS	EPA 3010	386350	EPA 6010	387125

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50171104001	PZ-115-SS	EPA 3010	387194	EPA 6010	387749
50171104002	PZ-114-AS	EPA 3010	387194	EPA 6010	387749
50170228001	PZ-111-SD	EPA 200.2	385454	EPA 6020	385961
50170228002	PZ-109-SS	EPA 200.2	385454	EPA 6020	385961
50170228003	PZ-210-SD	EPA 200.2	385454	EPA 6020	385961
50170228004	PZ-210-SS	EPA 200.2	385454	EPA 6020	385961
50170228005	PZ-211-SD	EPA 200.2	385454	EPA 6020	385961
50170228006	PZ-211-SS	EPA 200.2	385454	EPA 6020	385961
50170228007	PZ-209-SD	EPA 200.2	385454	EPA 6020	385961
50170228008	PZ-209-SS	EPA 200.2	385454	EPA 6020	385961
50170228010	PZ-205-SS	EPA 200.2	385643	EPA 6020	386102
50170228011	PZ-205-SS DUP	EPA 200.2	385643	EPA 6020	386102
50170228012	PZ-106-SD	EPA 200.2	385643	EPA 6020	386102
50170228013	PZ-106-SS	EPA 200.2	385643	EPA 6020	386102
50170228014	PZ-100-SD	EPA 200.2	385643	EPA 6020	386102
50170228014	PZ-100-SD	EPA 200.2	388826	EPA 6020	389187
50170228015	PZ-100-SS	EPA 200.2	385643	EPA 6020	386102
50170228016	PZ-201A-SS	EPA 200.2	385643	EPA 6020	386102
50170228017	PZ-105-SS	EPA 200.2	385643	EPA 6020	386102
50170228019	FB @ PZ-104-KS	EPA 200.2	386321	EPA 6020	386737
50170228020	PZ-104-KS	EPA 200.2	386321	EPA 6020	386737
50170228021	PZ-104-SD	EPA 200.2	386321	EPA 6020	386737
50170228022	PZ-104-SS	EPA 200.2	386321	EPA 6020	386737
50171104001	PZ-115-SS	EPA 200.2	387440	EPA 6020	387829
50171104002	PZ-114-AS	EPA 200.2	387440	EPA 6020	387829
50170228001	PZ-111-SD	EPA 7470	386257	EPA 7470	387395
50170228002	PZ-109-SS	EPA 7470	386257	EPA 7470	387395
50170228003	PZ-210-SD	EPA 7470	386257	EPA 7470	387395
50170228004	PZ-210-SS	EPA 7470	386257	EPA 7470	387395
50170228005	PZ-211-SD	EPA 7470	386257	EPA 7470	387395
50170228006	PZ-211-SS	EPA 7470	386257	EPA 7470	387395
50170228007	PZ-209-SD	EPA 7470	386257	EPA 7470	387395
50170228008	PZ-209-SS	EPA 7470	386257	EPA 7470	387395
50170228010	PZ-205-SS	EPA 7470	387064	EPA 7470	388203
50170228011	PZ-205-SS DUP	EPA 7470	387064	EPA 7470	388203
50170228012	PZ-106-SD	EPA 7470	387064	EPA 7470	388203
50170228013	PZ-106-SS	EPA 7470	387064	EPA 7470	388203
50170228014	PZ-100-SD	EPA 7470	387064	EPA 7470	388203
50170228015	PZ-100-SS	EPA 7470	387064	EPA 7470	388203
50170228016	PZ-201A-SS	EPA 7470	387064	EPA 7470	388203
50170228017	PZ-105-SS	EPA 7470	387064	EPA 7470	388203
50170228019	FB @ PZ-104-KS	EPA 7470	387065	EPA 7470	388486
50170228020	PZ-104-KS	EPA 7470	387065	EPA 7470	388486
50170228021	PZ-104-SD	EPA 7470	387065	EPA 7470	388486

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228022	PZ-104-SS	EPA 7470	387065	EPA 7470	388486
50171104001	PZ-115-SS	EPA 7470	388636	EPA 7470	389046
50171104002	PZ-114-AS	EPA 7470	388636	EPA 7470	389046
50170228003	PZ-210-SD	EPA 3510	385391	EPA 8270	385540
50170228004	PZ-210-SS	EPA 3510	385391	EPA 8270	385540
50170228005	PZ-211-SD	EPA 3510	385391	EPA 8270	385540
50170228006	PZ-211-SS	EPA 3510	385391	EPA 8270	385540
50170228007	PZ-209-SD	EPA 3510	385815	EPA 8270	385916
50170228008	PZ-209-SS	EPA 3510	385391	EPA 8270	385540
50170228020	PZ-104-KS	EPA 3510	386219	EPA 8270	386406
50170228021	PZ-104-SD	EPA 3510	386219	EPA 8270	386406
50170228022	PZ-104-SS	EPA 3510	386219	EPA 8270	386406
50170228001	PZ-111-SD	EPA 8260	385685		
50170228002	PZ-109-SS	EPA 8260	385685		
50170228003	PZ-210-SD	EPA 8260	385685		
50170228004	PZ-210-SS	EPA 8260	385685		
50170228005	PZ-211-SD	EPA 8260	385685		
50170228006	PZ-211-SS	EPA 8260	385685		
50170228007	PZ-209-SD	EPA 8260	385685		
50170228008	PZ-209-SS	EPA 8260	385685		
50170228009	Trip Blank	EPA 8260	385685		
50170228010	PZ-205-SS	EPA 8260	387759		
50170228011	PZ-205-SS DUP	EPA 8260	387759		
50170228012	PZ-106-SD	EPA 8260	387759		
50170228013	PZ-106-SS	EPA 8260	387759		
50170228014	PZ-100-SD	EPA 8260	388095		
50170228015	PZ-100-SS	EPA 8260	387826		
50170228016	PZ-201A-SS	EPA 8260	387826		
50170228017	PZ-105-SS	EPA 8260	387826		
50170228018	Trip Blank	EPA 8260	387826		
50170228019	FB @ PZ-104-KS	EPA 8260	387826		
50170228020	PZ-104-KS	EPA 8260	387826		
50170228021	PZ-104-SD	EPA 8260	387826		
50170228022	PZ-104-SS	EPA 8260	387826		
50170228023	Trip Blank	EPA 8260	387826		
50171104001	PZ-115-SS	EPA 8260	387789		
50171104002	PZ-114-AS	EPA 8260	387789		
50171104003	Trip Blank	EPA 8260	387789		
50170228001	PZ-111-SD	SM 2540C	385577		
50170228002	PZ-109-SS	SM 2540C	385577		
50170228003	PZ-210-SD	SM 2540C	385577		
50170228004	PZ-210-SS	SM 2540C	385577		
50170228005	PZ-211-SD	SM 2540C	385577		

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Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228006	PZ-211-SS	SM 2540C	385577		
50170228007	PZ-209-SD	SM 2540C	385788		
50170228008	PZ-209-SS	SM 2540C	385788		
50170228010	PZ-205-SS	SM 2540C	386240		
50170228011	PZ-205-SS DUP	SM 2540C	386015		
50170228012	PZ-106-SD	SM 2540C	386015		
50170228013	PZ-106-SS	SM 2540C	386015		
50170228014	PZ-100-SD	SM 2540C	386241		
50170228015	PZ-100-SS	SM 2540C	386241		
50170228016	PZ-201A-SS	SM 2540C	386241		
50170228017	PZ-105-SS	SM 2540C	386241		
50170228019	FB @ PZ-104-KS	SM 2540C	386543		
50170228020	PZ-104-KS	SM 2540C	386543		
50170228021	PZ-104-SD	SM 2540C	386543		
50170228022	PZ-104-SS	SM 2540C	386543		
50171104001	PZ-115-SS	SM 2540C	387638		
50171104002	PZ-114-AS	SM 2540C	387909		
50170228001	PZ-111-SD	EPA 410.4	386602	EPA 410.4	386685
50170228002	PZ-109-SS	EPA 410.4	386602	EPA 410.4	386685
50170228003	PZ-210-SD	EPA 410.4	386602	EPA 410.4	386685
50170228004	PZ-210-SS	EPA 410.4	386602	EPA 410.4	386685
50170228005	PZ-211-SD	EPA 410.4	386602	EPA 410.4	386685
50170228006	PZ-211-SS	EPA 410.4	386602	EPA 410.4	386685
50170228007	PZ-209-SD	EPA 410.4	386602	EPA 410.4	386685
50170228008	PZ-209-SS	EPA 410.4	386602	EPA 410.4	386685
50170228010	PZ-205-SS	EPA 410.4	387174	EPA 410.4	387457
50170228011	PZ-205-SS DUP	EPA 410.4	387174	EPA 410.4	387457
50170228012	PZ-106-SD	EPA 410.4	387174	EPA 410.4	387457
50170228013	PZ-106-SS	EPA 410.4	387174	EPA 410.4	387457
50170228014	PZ-100-SD	EPA 410.4	387174	EPA 410.4	387457
50170228015	PZ-100-SS	EPA 410.4	387174	EPA 410.4	387457
50170228016	PZ-201A-SS	EPA 410.4	387176	EPA 410.4	387449
50170228017	PZ-105-SS	EPA 410.4	387176	EPA 410.4	387449
50170228019	FB @ PZ-104-KS	EPA 410.4	387176	EPA 410.4	387449
50170228020	PZ-104-KS	EPA 410.4	387176	EPA 410.4	387449
50170228021	PZ-104-SD	EPA 410.4	387176	EPA 410.4	387449
50170228022	PZ-104-SS	EPA 410.4	387176	EPA 410.4	387449
50171104001	PZ-115-SS	EPA 410.4	388563	EPA 410.4	388682
50171104002	PZ-114-AS	EPA 410.4	388563	EPA 410.4	388682
50170228003	PZ-210-SD	SM 4500-S2-D	385305		
50170228004	PZ-210-SS	SM 4500-S2-D	385305		
50170228005	PZ-211-SD	SM 4500-S2-D	385305		
50170228006	PZ-211-SS	SM 4500-S2-D	385305		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228007	PZ-209-SD	SM 4500-S2-D	385305		
50170228008	PZ-209-SS	SM 4500-S2-D	385305		
50170228020	PZ-104-KS	SM 4500-S2-D	386305		
50170228021	PZ-104-SD	SM 4500-S2-D	386305		
50170228022	PZ-104-SS	SM 4500-S2-D	386305		
50170228001	PZ-111-SD	EPA 353.2	387172		
50170228002	PZ-109-SS	EPA 353.2	387172		
50170228003	PZ-210-SD	EPA 353.2	387172		
50170228004	PZ-210-SS	EPA 353.2	387172		
50170228005	PZ-211-SD	EPA 353.2	387172		
50170228006	PZ-211-SS	EPA 353.2	387172		
50170228007	PZ-209-SD	EPA 353.2	387172		
50170228008	PZ-209-SS	EPA 353.2	387172		
50170228010	PZ-205-SS	EPA 353.2	387172		
50170228011	PZ-205-SS DUP	EPA 353.2	387172		
50170228012	PZ-106-SD	EPA 353.2	387172		
50170228013	PZ-106-SS	EPA 353.2	387172		
50170228014	PZ-100-SD	EPA 353.2	387172		
50170228015	PZ-100-SS	EPA 353.2	387172		
50170228016	PZ-201A-SS	EPA 353.2	387172		
50170228017	PZ-105-SS	EPA 353.2	387172		
50170228019	FB @ PZ-104-KS	EPA 353.2	387172		
50170228020	PZ-104-KS	EPA 353.2	387172		
50170228021	PZ-104-SD	EPA 353.2	387172		
50170228022	PZ-104-SS	EPA 353.2	387172		
50171104001	PZ-115-SS	EPA 353.2	388241		
50171104002	PZ-114-AS	EPA 353.2	388241		
50170228001	PZ-111-SD	EPA 365.1	387503	EPA 365.1	387592
50170228002	PZ-109-SS	EPA 365.1	387503	EPA 365.1	387592
50170228003	PZ-210-SD	EPA 365.1	387503	EPA 365.1	387592
50170228004	PZ-210-SS	EPA 365.1	387503	EPA 365.1	387592
50170228005	PZ-211-SD	EPA 365.1	387503	EPA 365.1	387592
50170228006	PZ-211-SS	EPA 365.1	387504	EPA 365.1	387593
50170228007	PZ-209-SD	EPA 365.1	387504	EPA 365.1	387593
50170228008	PZ-209-SS	EPA 365.1	387504	EPA 365.1	387593
50170228010	PZ-205-SS	EPA 365.1	387504	EPA 365.1	387593
50170228011	PZ-205-SS DUP	EPA 365.1	387504	EPA 365.1	387593
50170228012	PZ-106-SD	EPA 365.1	387504	EPA 365.1	387593
50170228013	PZ-106-SS	EPA 365.1	387504	EPA 365.1	387593
50170228014	PZ-100-SD	EPA 365.1	387504	EPA 365.1	387593
50170228015	PZ-100-SS	EPA 365.1	387504	EPA 365.1	387593
50170228016	PZ-201A-SS	EPA 365.1	387504	EPA 365.1	387593
50170228017	PZ-105-SS	EPA 365.1	387504	EPA 365.1	387593
50170228019	FB @ PZ-104-KS	EPA 365.1	387504	EPA 365.1	387593
50170228020	PZ-104-KS	EPA 365.1	387504	EPA 365.1	387593
50170228021	PZ-104-SD	EPA 365.1	387940	EPA 365.1	388197

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Dublin, OH 43017
(614)486-5421

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling

Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228022	PZ-104-SS	EPA 365.1	387940	EPA 365.1	388197
50171104001	PZ-115-SS	EPA 365.1	389257	EPA 365.1	389343
50171104002	PZ-114-AS	EPA 365.1	389257	EPA 365.1	389343
50170228001	PZ-111-SD	SM 4500-NH3 G	386461		
50170228002	PZ-109-SS	SM 4500-NH3 G	386461		
50170228003	PZ-210-SD	SM 4500-NH3 G	386461		
50170228004	PZ-210-SS	SM 4500-NH3 G	386461		
50170228005	PZ-211-SD	SM 4500-NH3 G	386461		
50170228006	PZ-211-SS	SM 4500-NH3 G	386461		
50170228007	PZ-209-SD	SM 4500-NH3 G	386461		
50170228008	PZ-209-SS	SM 4500-NH3 G	386461		
50170228010	PZ-205-SS	SM 4500-NH3 G	386941		
50170228011	PZ-205-SS DUP	SM 4500-NH3 G	386941		
50170228012	PZ-106-SD	SM 4500-NH3 G	386941		
50170228013	PZ-106-SS	SM 4500-NH3 G	386941		
50170228014	PZ-100-SD	SM 4500-NH3 G	386941		
50170228015	PZ-100-SS	SM 4500-NH3 G	386941		
50170228016	PZ-201A-SS	SM 4500-NH3 G	386941		
50170228017	PZ-105-SS	SM 4500-NH3 G	386941		
50170228019	FB @ PZ-104-KS	SM 4500-NH3 G	387735		
50170228020	PZ-104-KS	SM 4500-NH3 G	387735		
50170228021	PZ-104-SD	SM 4500-NH3 G	387735		
50170228022	PZ-104-SS	SM 4500-NH3 G	387735		
50171104001	PZ-115-SS	SM 4500-NH3 G	388326		
50171104002	PZ-114-AS	SM 4500-NH3 G	388326		
50170228001	PZ-111-SD	SM 5310C	386296		
50170228002	PZ-109-SS	SM 5310C	386296		
50170228003	PZ-210-SD	SM 5310C	386296		
50170228004	PZ-210-SS	SM 5310C	386960		
50170228005	PZ-211-SD	SM 5310C	386960		
50170228006	PZ-211-SS	SM 5310C	386605		
50170228007	PZ-209-SD	SM 5310C	386605		
50170228008	PZ-209-SS	SM 5310C	386605		
50170228010	PZ-205-SS	SM 5310C	386886		
50170228011	PZ-205-SS DUP	SM 5310C	386886		
50170228012	PZ-106-SD	SM 5310C	386886		
50170228013	PZ-106-SS	SM 5310C	386886		
50170228014	PZ-100-SD	SM 5310C	386886		
50170228015	PZ-100-SS	SM 5310C	386886		
50170228016	PZ-201A-SS	SM 5310C	386886		
50170228017	PZ-105-SS	SM 5310C	386886		
50170228019	FB @ PZ-104-KS	SM 5310C	386961		
50170228020	PZ-104-KS	SM 5310C	386961		
50170228021	PZ-104-SD	SM 5310C	386961		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton 2017Q2 DMP Sampling
Pace Project No.: 50170228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50170228022	PZ-104-SS	SM 5310C	386961		
50171104001	PZ-115-SS	SM 5310C	389298		
50171104002	PZ-114-AS	SM 5310C	389298		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Section B

Bharti Bhawan

Required Project Information:
Report To: Jon Wilkinson

Required Client Information:		Required Project Information:	
Company:	Republic Services - Missouri Landfills	Report To:	Jon Wilkinson
Address:	3377 Hollenberg Drive	Copy To:	
	Bridgeton, MO 63044	Purchase Order #:	
Email To:	jwilkinson@republicservices.com	Project Name:	Bridgeton
Phone:	(636) 578-8635 Fax:	Project #:	
Requested Due Date:	Standard		

Section C
Invoice Information

WEDNESDAY

Required Project Information

Required Project Information

Page : 1 of 1

Page : 1 of 1



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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																		
Company: Address:	Republic Services - Missouri Landfills 3377 Hollenberg Drive Bridgeport, MO 63044	Report To: Copy To:	Jon Wilkinson	Attention: Company Name: Address:																																																																																		
Email To: Phone:	jwilkinson@feezorengineering.com (636) 578-8635 Fax	Purchase Order #:		Page Quote: Project Name:	Bridgeport 2017Q2 DMP Sampling																																																																																	
Requested Due Date:	Standard	Project #:		Page Project Manager:	chris.boyle@pacelabs.com																																																																																	
		Project Profile #:	4762 / 1	State / Location:	MO																																																																																	
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Sample Condition Upon Receipt

PaceAnalytical

Client Name: Republic - MOProject # 50170228Courier: FedEx UPS USPS Client Commercial Pace OtherTracking #: 726130999645/9650/9678/9667Custody 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 OtherThermometer 1 2 3 4 5 6 A B C D E FType of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 0.8/0.8, 0.9/0.9, Ice Visible in Sample Containers: yes noTemp should be above freezing to 6°C 2.1/2.1, 1.3/1.3°C

Comments:

Date and Initials of person examining contents: AS/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:

 Yes No

9.

-Includes date/time/ID/Analysis

All containers needing acid/base pres. have been checked?

 Yes No N/A

10.

(Circle)

 HNO₃ H₂SO₄ NaOH NaOH/ZnAc

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.

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.

P2-210-SD(2/3), P2-210-SS(3/3), P2-211-SD(1/3)

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:

CMBDate: 5-9-17

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic Project # 50170228

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 786476432609

Custody Seal on Cooler/Box Present: Yes no Seals intact: Yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 0.3/0.3

Ice Visible in Sample Containers:

(Initial/Corrected) 2.4/2.1

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MH 5-6-17

Comments:

Are samples from West Virginia?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1.
Document any containers out of temp.		
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10. (Circle) <u>HNO3</u> <u>H2SO4</u> 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):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Headspace Wisconsin Sulfide	<input type="checkbox"/> Yes <input type="checkbox"/> No	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	16.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	16.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17.

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

Project Manager Review:

Kenneth Hunt

Date: 5/6/17

Sample Condition Upon Receipt

Pace Analytical

Client Name: Republic Project # S0170228

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: 726130999715

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 ✓ 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 45° 1.8 - 21 / 18 - 27 Ice Visible in Sample Containers: yes no

(Initial/Corrected) ATW Temp should be above freezing to 6°C Comments: Date and Initials of person examining contents: ATW 5/10/17

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: Yes No 9.

-Includes date/time/ID/Analysis

All containers needing acid/base pres. have been checked? Yes No N/A 10 (Circle) HNO3 H2SO4 NaOH NaOH/ZnAc

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.

Residual Chlorine Check (SVOC 625 Pest/PCB 608) 11. Present Absent

Residual Chlorine Check (Total/Amenable/Free Cyanide) 12. Present Absent

Headspace in VOA Vials (>6mm): Yes No N/A 13 PZ 1048D 3/3 PZ 1045S 2/3

Headspace Wisconsin Sulfide Yes No 14

Trip Blank Present: Yes No 15

Trip Blank Custody Seals Present Yes No 16.

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: CAB Date: 5-11-17

CLIENT: Republic-MO

OC PAGE 1 of 1
OC ID# 1669

SQS ☐
X ☐

Project # SO170228

Sample Container Count

Sample Line Item	AG1U	WG FU	AG0U	R	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG1H	BP1U	SP5T	AG2U	BP3Z	pH <2	pH >9	pH >12
1	3															WT		
2		2															✓	
3			2														✓	
4				1													✓	
5					1												✓	
6						1											✓	
7							1										✓	
8								1									✓	
9									1									✓
10										1								
11											1							
12												1						

Container Codes

DG9H	40mL HCl amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter HCl amber glass	BP1T	1 liter H2SO4 amber glass	BP1Z	1 liter unpreserved plastic	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H2SO4 plastic	BP1U	1 liter HCl amber glass	BP1T	1 liter H2SO4 amber glass	BP1Z	1 liter Na Thiosulfate amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate				
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter unpreserved amber glass	BP2A	500mL NaOH, Asc Acid plastic	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	JGFU	4oz unpreserved amber wide	U	Summa Can	VG9H	40mL HCL clear vial	VG9T	40mL Na Thio. clear vial	VG9U	40mL unpreserved clear vial		
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate		
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassette	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfite amber vial	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Na Thiosulfate

CLIENT: République

COG PAGE 1 of 1
COG ID# 1

Sample Line

Item

Project # 5017028

Sample Container Count

Container Codes	
DG9H	40mL HCl amber voa vial
AG1U	1liter unpreserved amber glass
WG FU	4oz clear soil jar
R	terra core kit
BP2N	500mL HNO3 plastic
BP2U	500mL unpreserved plastic
BP2S	500mL H2SO4 plastic
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
AG3S	250mL H2SO4 glass amber
AG1S	1liter H2SO4 amber glass
RP1U	1liter unpreserved plastic
AG0U	100mL unpreserved amber glass
AG1H	1 liter HCl amber glass
AG1S	1 liter H2SO4 amber glass
AG1T	1 liter Na Thiosulfate amber glass
AG2N	500mL HNO3 amber glass
AG2S	500mL H2SO4 amber glass
AG2U	500mL unpreserved amber glass
AG3U	250mL unpreserved amber glass
BG1H	1 liter HCl clear glass
BG1S	1 liter H2SO4 clear glass
BG1T	1 liter Na Thiosulfate clear glass
BG1U	1 liter unpreserved glass
RP1A	1 liter NaOH Asc Acid plastic
BP1N	1 liter HNO3 plastic
BP1S	1 liter H2SO4 plastic
BP1U	1 liter unpreserved plastic
BP1Z	1 liter NaOH, Zn, Ac
BP2A	500mL NaOH, Asc Acid plastic
BP2O	500mL NaOH plastic
BP2Z	500mL NaOH, Zn Ac
AF	Air Filter
BP3B	250mL NaOH plastic
BP3Z	250mL NaOH, Zn Ac plastic
C	Air Cassette
DG9B	40mL Na Bisulfite amber vial
DGM	40mL MeOH clear vial
DG9P	40mL TSP amber vial
DG9S	40mL H2SO4 amber vial
DG9T	40mL Na Thio amber vial
DG9U	40mL unpreserved amber vial
SP5T	120mL Coliform Na Thiosulfate
JGFU	4oz unpreserved amber wide
U	Summa Can
VG9H	40mL HCl clear vial
VG9T	40mL Na Thio, clear vial
VG9U	40mL unpreserved clear vial
VSG	Headspace sepio vial & HCl
WGFX	4oz wide jar whexane wipe
ZBI C	Ziploc Bag

CLIENT: PepsiCo

COC PAGE 1 of 1
COC ID# 666666

S S A
X X X

Sample Container Count

Project # 50170228

Sample Line	Item	AG1U	WG FU	AG0U	R	BP2N	BP2U	BP3U	BP3N	BP3S	AG3S	AG1H	BP3B	BP1U	SP5T	AG2U	RP3Z	pH <2	pH >9	pH >12
1	3																✓	✓		
2	1	2		2													✓			
3	1	2	2	2																
4	1	2	2	2																
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Container Codes

DG9H	40mL HCl amber vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	BP1S	1 liter H2SO4 plastic	BP1U	1 liter HCl amber glass	BP1T	40mL H2SO4 amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1T	40mL H2SO4 amber vial	BP1S	1 liter H2SO4 plastic	BP1U	1 liter unpreserved plastic	BP1T	40mL Na Thio amber vial
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	BP1T	40mL Na Thio amber vial	BP1Z	1 liter NaOH, Zn, Ac	BP1U	40mL unpreserved amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	BP2A	500mL NaOH, Asc Acid plastic	BP2T	120mL Coliform Na Thiosulfate	BP2U	4oz unpreserved amber wide
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2O	500mL NaOH plastic	BP2Z	500mL NaOH, Zn Ac	BP2U	500mL H2SO4 amber glass	BP2T	40mL Na Thio, clear vial
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	BP2U	500mL NaOH plastic	BP3B	250mL NaOH plastic	BP3S	40mL Na Thio, clear vial
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2U	500mL NaOH plastic	BP3T	250mL NaOH, Zn Ac plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	40mL unpreserved clear vial
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	BP3T	250mL NaOH plastic	BP3U	250mL NaOH plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3S	Headspace septa vial & HCL
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl clear glass	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	250mL NaOH plastic	BP3T	40mL Na Bisulfate amber vial	BP3S	Headspace septa vial & HCL
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3T	40mL Na Bisulfate amber vial	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	40mL Na Bisulfate amber vial	BP3S	Headspace septa vial & HCL
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	250mL NaOH plastic	BP3T	40mL MeOH clear vial	BP3S	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	BP3T	40mL MeOH clear vial	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	40mL Na Thio jar w/hexane wipe	BP3S	Headspace septa vial & HCL
BP1U	1 liter unpreserved plastic	BPA1	1 liter NaOH, Asc Acid plastic	BP3Z	250mL NaOH, Zn Ac plastic	BP3U	250mL NaOH plastic	BP3T	40mL MeOH clear vial	BP3S	Headspace septa vial & HCL
											ZPLC Ziploc Bag

(Soil/Water/Non-Aqueous Liquid)
Matrix SIMILAR
pH <2 pH >9 pH >12



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-100-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/5/2017 0922

Casing Diameter (inches): 2

Initial Water Level (ft): 29.32

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 29.87

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 456.43

Total Volume Purged (mL): 6,850 mL

Ground Water Elev Previous Event (ft, msl): 455.88

Purged Dry?: Yes _____ No

Well Total Depth (ft): Top of pump = 84.33

Water Level after Purge (feet): 43.15

Well Total Depth Previous Event (ft): Top of pump = 89.34

Date/Time Completed: 5/5/2017 094

PURGE DATA: Discharge: 4.5 sec R

.0 sec Pressure: 47 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 274 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-100-SS

Water Level @ Sampling (ft): 43.15

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 14 of 3652

Quarterly: Monthly: _____ Other:

MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \text{umhos/cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/5/2017 0949	274	16.5	7.00	779	2.01	1.03	88	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/5/2017 0715

Start of day	End of day	Purging Event	Sampling Event
0.00	N/A	NTU std = 0.02	NTU std = 0.02
10.17	N/A	NTU std = 10.0	NTU std = 10.0
988.0	N/A	NTU std = 1,000	NTU std = 1,000
1435	N/A	μS std = 1,413	μS std = 1,413
0.487	N/A	Cell Const: Cell Const: Range: 0.45 - 0.50	Cell Const: Cell Const: Range: 0.45 - 0.50
7.03	N/A	pH std = 7.03 @ 16.8 °C	pH std = 7.01 @ 21.3 °C
4.00	N/A	pH std = 4.00 @ 17.1 °C	pH std = 4.00 @ 20.1 °C
1.11	Slope: N/A	Dissolved O ₂	Slope: N/A
@ Temp 16.3 °C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A
247	N/A	ORP std: 240 ± 20 mV @ 25 °C	ORP std: 240 ± 20 mV @ 25 °C

End of day:
(Date/time) 5/5/2017 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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 55 °F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 μS ; Historical Range from Jul 2013 - Feb 2017: 835 - 618 μS .

pH Prediction Limits = 6.6 - 8.0 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.88 - 7.27 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 16/16

MDNR collected spot - Mo App I + Iodide + nitrate

Date: 5/5/2017 By:  Title: Team Member

Residuals Management

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-100-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 3/5/2017 0822

Casing Diameter (inches): 2

Initial Water Level Previous Event (ft): 31.45

Feb 2017 - One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft. msl): **455.22**

Total Volume Purged (ml.): 8.22

Ground Water 2.81 Previous Event (if any): 15 NOV

Planned by... Yes _____ No _____

W.B.

11

Well Total Depth Previous Event (ft): Top of pump = 96.27

Date/Time Completed: 5/5/2017 090

PURGE DATA: Discharge: 4.5 sec RE

Refill: 6.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 205 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-100-SD

Water Level @ Sampling (ft): 45.96

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 13 of 46 52

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
5/5/2017 0905	205	16.0	7.18	609	1.00	0.35	-108	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/5/2017 0715

Start of day	End of day	Purging Event	Sampling Event
0.00	N/A	NTU std = 0.02	NTU std = 0.02
10.17	N/A	NTU std = 10.0	NTU std = 10.0
988.0	N/A	NTU std = 1,000	NTU std = 1,000
1435	N/A	µS std = 1,413	µS std = 1,413
0.487	N/A	Cell Const: Cell Const Range: 0.45 - 0.50	Cell Const: Cell Const Range: 0.45 - 0.50
7.03	N/A	pH std = 7.03 @ 21.3 °C	pH std = 7.01 @ 21.3 °C
4.08	N/A	pH std = 4.00 @ 21.1 °C	pH std = 4.00 @ 20.9 °C
1.11	N/A	Slope: N/A Dissolved O ₂	Slope: N/A Dissolved O ₂
@ Temp 16.3°C	@ Temp N/A	Slope Range: 0.6 to 1.25	Slope Range: 0.6 to 1.25
247	N/A	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C

End of day:
(Date/time) 5/5/2017 1700

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201110051

pH / Sp. Cond.
Meter: WTW pH/Cond
3400i

pH / Sp. Cond.
Meter S/N: #08100255

ORP / Diss O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling:

Sunny, Lt. Breeze, 55°F

Sample Characteristics:

Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 710 µS; Historical Range from Jul 2013 - Feb 2017: 567 - 635 µS.

pH Prediction Limits = 6.6 - 8.1 s.u.; Historical Range from Jul 2013 - Feb 2017: 7.01 - 7.48 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 8 of 7 Place

MDNR collected split - Mo App I: Iodide; tnt: n

Date: 5/5/2017 By:  Title: Team Member

Residuals Management

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-104-SS

Water Level @ Sampling (ft): 42.55

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 21 of 46 52

Quarterly: Monthly: _____ Other:

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (μS = $\mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/8/2017 1436	326	27.0	6.50	812	2.41	0.11	-287	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/8/2017 0720

Purging Event		Sampling Event		NTU std = 0.02	NTU std = 10.0	NTU std = 1,000	μS std = 1,413	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	pH std = 7.03 @ 25.3 °C	pH std = 7.00	pH std = 4.00 @ 25.2 °C	pH std = 4.00 @ 25.2 °C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
Start of day	End of day	Start of day	End of day																
0.02	N/A	NTU std = 0.02	N/A	0.01	NTU std = 10.0	NTU std = 1,000	1,413	N/A	0.498	Cell Const: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	7.03	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
10.08	N/A	NTU std = 10.0	N/A	10.15	NTU std = 1,000	NTU std = 1,000	1,413	N/A	0.498	Cell Const: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
994.2	N/A	NTU std = 1,000	N/A	997.3	μS std = 1,413	μS std = 1,413	1,413	N/A	0.498	Cell Const: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
1433	N/A	μS std = 1,413	N/A	1433	Cell Const: N/A	Cell Const: N/A	1,413	N/A	0.498	Cell Const: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.498	Cell Const: 0.45 - 0.50	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
0.498	N/A	Range: 0.45 - 0.50	N/A	0.498	Slope: N/A	Slope: N/A	0.45 - 0.50	N/A	0.498	@ Temp 16.9°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
7.00	N/A	pH std = 7.03 @ 25.3 °C	N/A	7.00	Slope: N/A	Slope: N/A	0.6 to 1.25	N/A	0.498	@ Temp 16.9°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
4.08	N/A	pH std = 4.00 @ 25.2 °C	N/A	4.14	Slope: N/A	Slope: N/A	0.6 to 1.25	N/A	0.498	@ Temp 16.9°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
0.91	N/A	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	N/A	1.10	Slope: N/A	Slope: N/A	0.6 to 1.25	N/A	0.498	@ Temp 16.9°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
16.9°C	N/A	Slope Range: 0.6 to 1.25	N/A	26.4°C	Slope: N/A	Slope: N/A	0.6 to 1.25	N/A	0.498	@ Temp 16.9°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C
256	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	228	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C	240 ± 20 mV @ 25°C	N/A	0.498	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C	7.00	N/A	6.99	4.01	Dissolved O ₂ std = 240 ± 20 mV @ 25°C	Dissolved O ₂ std = 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Partly Cloudy, 80°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 920 μS ; Historical Range from Jul 2013 - Feb 2017: 770 - 882 μS .

pH Prediction Limits = 6.2 - 8.5 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.51 - 7.1 s.u.

Well Closed and Locked? Y/N Full Suite Collected? Y/N # Bottles Collected: 12 - 1 each

M DNR collected split - Mo App I i Tioxide ; tritium

Date: 5/8/2017 By: Jonathan Wilkinson Title: Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/8/2017 110e

Casing Diameter (inches): 2

Initial Water Level (ft): 20.01

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft. msl): 5163.57

Total Volume Purged (mL): 15,700 mL

Ground Water Elev Previous Event (ft. msl): 461.51

Purged Dry?: Yes No ✓

Well Total Depth (ft): Top of pump = 120.62

Water Level after Purge (feet): **25.48**

Well Total Depth Previous Event (ft): Top of pump = 120.61

Date/Time Completed: 5/8/2017 254

PURGE DATA: Discharge: 4.5 sec Re

0 sec Pressure: 65 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell

use 250 ft for FD

Average Purge Rate: 296 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-104-SD

Dedicated: Yes No

Water Level @ Sampling (ft): 25.40

Well Collection Sequence #: 20 of 46 52

Parameters: Annual: _____ Semi-Annual: _____

Quarterly: Monthly: _____ Other:

MDNR Split Sampling Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/8/2017 1203	296	26.4	6.69	1920	18.39	0.92	-188	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/8/2017 0720

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.62	N/A	NTU std =	0.02	N/A	0.01
10.08	N/A	NTU std =	10.0	N/A	10.15
994.2	N/A	NTU std =	1,000	N/A	997.3
1433	N/A	μS std =	1,413	N/A	1433
0.498	N/A	Cell Const:	Cell Const:	Cell Const:	Cell Const:
0.498	N/A	Range:	0.45 - 0.50	N/A	0.498
7.00	N/A	pH std = 7.03 @ 17.5°C	N/A	6.99	pH std = 7.00 @ 25.3 °C
4.08	N/A	pH std = 4.00 @ 17.7°C	N/A	4.14	0.01 pH std = 4.00 @ 25.2°C
0.91	Slope: N/A	Dissolved O ₂	Slope: N/A	1.10	Dissolved O ₂
16.9°C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	26.4°C	Slope Range: 0.6 to 1.25
256	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	228	ORP std: 240 ± 20 mV @ 25°C

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201110051

pH / Sp. Cond. WTW pH/Cond
Meter: 3400i

pH / Sp. Cond.
Meter S/N: #08200255

ORP / Diss O₂ WTW pH/Oxi
Meter: 3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, 75°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,500 μS ; Historical Range from Jul 2013 - Feb 2017: 1258 - 2110 μS .

pH Prediction Limits = 6.2 - 8.2 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.39 - 6.96 s.u.

Well Closed and Locked? Y / N Full Suite Collected? Y / N # Bottles Collected: 13 - 12 Pace 1 everlast

MDNR collected split - Mo App I : Iodide ; tritium

Date: 5/8/2017 By: Jonathan Wilkinson Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-104-KS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/8/2017 0853

Casing Diameter (inches): 2

Initial Water Level (ft): 16.6 15.62

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 17.82

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 468.33

Total Volume Purged (mL): 22,300 mL

Ground Water Elev Previous Event (ft, msl): 466.13

Purged Dry?: Yes _____ No

Well Total Depth (ft): Top of pump = 93.29

Water Level after Purge (feet): 25.19

Well Total Depth Previous Event (ft): Top of pump = 93.01

Date/Time Completed: 5/8/2017 1015

PURGE DATA: Discharge: 4.5 sec Re

0.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

TD measured prior to pump installation = 409.26 ft Average Purge Rate: 762 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 25.19

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-104-KS

Dedicated: Yes No

Well Collection Sequence #: 19 of 46 52

Quarterly: _____ Monthly: _____ Other:

MDNR Split Sampling Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp °C	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/8/2017 1020	202	25.3	7.07	817	0.36	0.30	-231	Clear

INSTRUMENT CALIBRATION DATA:

Start of day: 0720
(Date/Time) 5/8/2017 0715 ^(JW)

End of day: 1905
(Date/time) 5/8/2017 1900 ^(JW)

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480024

Purging Event			Sampling Event		
Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.02	N/A	0.02	N/A	0.01	0.02
10.00	N/A	10.0	N/A	10.15	10.0
994.2	N/A	1,000	N/A	997.3	1,000
1433	N/A	μS std = Cell Const: 0.498	1,413	N/A	μS std = Cell Const: 1,413
7.00	N/A	Cell Const: Range: 0.45 - 0.50	N/A	0.498	Cell Const: Range: 0.45 - 0.50
4.00	N/A	pH std = 4.00 @ 17.7°C	N/A	6.99	pH std = 4.01 @ 25.2°C
0.91	Slope: @ Temp 16.9°C	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A	1.10	Dissolved O ₂ Slope Range: 0.6 to 1.25
N/A	@ Temp N/A	ORP std: 240 ± 20 mV @ 25°C	@ Temp N/A	26.4%	ORP std: 240 ± 20 mV @ 25°C
256	N/A	N/A	N/A	228	N/A

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling:

Hazy, 78°F

Sample Characteristics:

Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N

Full Suite Collected? N

Bottles Collected: 13 - 12 Pack

1 full lwr

collect FB @ PZ-104-KS @ 0840

MDNR collects split - no App I i Iodide + Tn.7m

Date: 5/8/2017

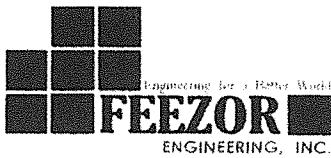
By:

Jonathan Wilkinson

Residuals Management

Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-105-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Top of Casing (ft, msl) 483.51

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/5/2017 1143

Casing Diameter (inches): 2

Initial Water Level (ft): 22.16

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 24.21

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.35

Total Volume Purged (mL): 10,750 mL

Ground Water Elev Previous Event (ft, msl): 459.30

Purged Dry?: Yes _____ No

Well Total Depth (ft): Top of pump = 144.82

Water Level after Purge (feet): 43.09

Well Total Depth Previous Event (ft): Top of pump = 144.63

Date/Time Completed: 3/5/2017 1217

PURGE DATA: Discharge: 4.5 sec Re

.0 sec Pressure: 75 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: **31b** mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-105-SS

Water Level @ Sampling (ft): 43.09

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Quarterly:

Monthly: _____

Other:
MDNR Split Sampling
Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/5/2017 1219	316	19.9	6.98	1038	3.83	0.26	-95	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/5/2017 0715

Start of day	End of day	Purging Event	Sampling Event
0.00	N/A	NTU std = 0.02	NTU std = 0.02
10.17	N/A	NTU std = 10.0	NTU std = 10.0
9.88.0	N/A	NTU std = 1,000	NTU std = 1,000
1435	N/A	µS std = 1,413	µS std = 1,413
0.487	N/A	Cell Const: Cell Const: Range: 0.45 - 0.50	Cell Const: Cell Const: Range: 0.45 - 0.50
7.07	N/A	pH std = 7.03@16.9°C	pH std = 7.01 @ 21.3 °C
4.08	N/A	pH std = 4.00@17.1°C	pH std = 4.00 @ 20.9 °C
1.11	N/A	Dissolved O ₂	Dissolved O ₂
@ Temp 16.3°C	@ Temp N/A	Slope Range: 0.6 to 1.25	Slope Range: 0.6 to 1.25
247	N/A	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C

End of day:
(Date/time) 5/5/2017 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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Wind ~20 mph, gusts to ~40 mph, 60 °F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,100 µS; Historical Range from Jul 2013 - Feb 2017: 942 - 1087 µS.

pH Prediction Limits = 6.7 - 8.3 s.u.; Historical Range from Jul 2013 - Feb 2017: 7.01 - 7.52 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 8 - 7 Pace 1 Berlin

Date: 5/5/2017	By:	Residuals Management
	Jonathan Wilkinson	Title: Team Member
Company: Feezor Engineering, Inc.		



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-106-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/4/2017 1712

Casing Diameter (inches): 2

Initial Water Level (ft): 13.09

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 13.94

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 449.62

Total Volume Purged (mL): 12.72 mL

Ground Water Elev Previous Event (ft, msl): 448.77

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 161.39

Water Level after Purge (feet): 30.04

Well Total Depth Previous Event (ft): Top of pump = 161.40

Date/Time Completed: 5/4/2017 (75)

BURGE DATA: Discharge: 4.5 sec P

0 sec Responses = 40 sec

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 236 ml / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-106-SS

Water Level @ Sampling (ft): 30.04

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 12 of 52

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
5/4/2017 1753	276	21.4	6.93	987	2.39	0.12	-150	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/4/2017 1045

Purging Event

Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.02	N/A	0.02	N/A	0.00	0.02
9.90	N/A	NTU std =	10.0	N/A	10.0
986.1	N/A	NTU std =	1,000	N/A	1,000
1422	N/A	µS std =	1,413	N/A	1,413
0.486	N/A	Cell Const: Range:	0.45 - 0.50	N/A	Cell Const: Range:
6.97	N/A	pH std = 7.01 @ 21.9°C	N/A	7.01	pH std = 7.03 @ 18.1 °C
4.01	N/A	pH std = 4.00 @ 21.6°C	N/A	4.16	pH std = 4.00 @ 16.6°C
1.11	N/A	Slope: @ Temp	Dissolved O ₂	Slope: @ Temp	Dissolved O ₂
23.79	N/A	@ Temp	Slope Range: 0.6 to 1.25	@ Temp	Slope Range: 0.6 to 1.25
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	241	ORP std: 240 ± 20 mV @ 25°C

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: # 09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Mostly Cloudy, Wind 15 mph, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

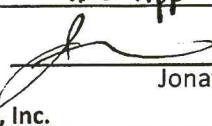
sp. cond calibration checks out ok

Sp. Cond. Prediction Limit = 950 µS; Historical Range from Jul 2013 - Feb 2017: 710 - 985 µS.

pH Prediction Limits = 6.3 - 8.3 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.89 - 7.26 s.u.

Well Closed and Locked? / N Full Suite Collected? / N # Bottles Collected: 8 - 7 Pass

MDNR collected spl. + Mo App I & Iodide & tritium

Date: 5/4/2017 By:  Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-106-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/4/2012 1605

Casing Diameter (inches): 2

Initial Water Level (ft): 13.62

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 14.77

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 449.74

Total Volume Purged (mL): 13,450 mL

Ground Water Elev Previous Event (ft, msl): 448.59

Purged Dry?: Yes _____ No ✓

Well Total Depth (ft): Top of pump = 110.43

Water Level after Purge (feet): 19.53

Well Total Depth Previous Event (ft):

Date/Time Completed: 5/9/2017 1630

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: **299** mL/min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 19.53

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-106-SD

Dedicated: Yes No

Well Collection Sequence #: 11 of 46 52

Quarterly: Monthly: _____ Other:
MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/4/2017 1652	299	21.7	6.90	1570	0.82	0.10	-210	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/4/2017 1045

End of day:
(Date/time) 5/4/2017 1825

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: # 09480084

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.02	N/A	NTU std =	0.02	N/A	0.00
9.90	N/A		10.0	N/A	9.85
986.1	N/A		1,000	N/A	21,100
1422	N/A	μS std =	1,413	N/A	1405
0.486	N/A		Cell Const: 0.45 - 0.50	N/A	0.486
6.97	N/A	pH std = 7.01 @ 21.6 °C	Cell Const: Range: 0.45 - 0.50	N/A	7.09
4.01	N/A		Cell Const: 0.6 to 1.25	N/A	4.16
1.01	N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	pH std = 4.00 @ 21.6 °C	Slope: N/A	4.00 @ 16.6 °C
23.7°C	N/A		@ Temp N/A	Slope: N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25
250	N/A	ORP std: 240 ± 20 mV @ 25°C	ORP std: 240 ± 20 mV @ 25°C	N/A	241
				N/A	240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Overcast, Breezy, 45°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 6,100 μS ; Historical Range from Jul 2013 - Feb 2017: 827 - 6120 μS .

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.54 - 6.97 s.u.

Well Closed and Locked? Y / N Full Suite Collected? N # Bottles Collected: 8 - 7 Perce
I believe

MDNR collected full suit spl.?: No App I; Iodide; tritium

Residuals Management

Date: 5/4/2017 By: Jonathan Wilkinson Title: Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-109-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Top of Casing (ft, msl) 460.19

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/2/2017 0953

Casing Diameter (inches): 2

Initial Water Level (ft): 20.67

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 21.92

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 439.52

Total Volume Purged (mL): 9,100 mL

Ground Water Elev Previous Event (ft, msl): 438.27

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 130.98

Water Level after Purge (feet): 37.97

Well Total Depth Previous Event (ft): Top of pump = 130.92

Date/Time Completed: 5/2/2017 1031

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: **240** mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 37.97

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-109-SS

Dedicated: Yes No

Well Collection Sequence #: 2 of 4652

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
5/2/2017 1033	240	20.3	6.97	769	1.75	1.08	95	clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/2/2017 0210

End of day:
(Date/time) 5/2/2017 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: A201110051

pH / Sp. Cond.
Meter: WTW pH/Cond
3400i

pH / Sp. Cond.
Meter S/N: 408200255

ORP / Diss O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: 409480084

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	0.02
0.02	N/A	NTU std =	0.02	N/A	0.00
9.84	N/A	NTU std =	10.0	N/A	9.76
1004	N/A	NTU std =	1,000	N/A	1004
1435	N/A	µS std =	1,413	N/A	1421
Cell Const: 0.494	Cell Const: N/A	Cell Const Range:	0.45 - 0.50	Cell Const: N/A	0.494
7.09	N/A	pH std = 7.03 @ 16.6°C	N/A	7.09	pH std = 7.02 @ 20.0 °C
4.11	N/A	pH std = 4.00 @ 16.8°C	N/A	4.13	pH std = 4.00 @ 20.3 °C
1.18	Slope: N/A	Dissolved O ₂	Slope: N/A	Slope: 1.16	Dissolved O ₂
@ Temp 17.7°C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	@ Temp 19.9°C	Slope Range: 0.6 to 1.25
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	237	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, breezy, 60°

Sample Characteristics: Clear

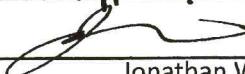
COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 990 µS; Historical Range from Jul 2013 - Feb 2017: 715 - 829 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.91 - 7.36 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 8 - 7 full

MDNR collected split - Mo App I & Iodide & titrate

Date: 5/2/2017 By:  Title: Residuals Management
Jonathan Wilkinson Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-110-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 7/1

Casing Diameter (inches): 2

Initial Water Level (ft): N/A

Feb 2017 One Borehole Volume Previous Event (gal): N/A

114

Total Volume Purged (ml): N/A

Ground Water Elev Previous Event (ft, msl): 430.04

Purged Dry?: Yes N/A No N/A

Well Total Depth (ft): Top of pump = 1110

Water Level after Purge (feet): N/A

Well Total Depth Previous Event (ft): Top of pump = 107.19

Date/Time Completed: N/A

PURGE DATA: Discharge: 4.5 sec Refill: 6.0 sec Pressure: 60 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: _____ mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-110-SS

Water Level @ Sampling (ft): N/A

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: _____ of _____

Quarterly: Monthly: _____ Other:

MDNR Split Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
<i>Well Damaged - Not Able to Purge or Sample</i>								

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) N/A

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	Start of day	End of day
<u>N/A</u>	<u>N/A</u>	NTU std =	0.02	<u>N/A</u>	<u>N/A</u>
	<u>N/A</u>	NTU std =	10.0	<u>N/A</u>	
	<u>N/A</u>	NTU std =	1,000	<u>N/A</u>	
	<u>N/A</u>	μS std =	1,413	<u>N/A</u>	
Cell Const:	Cell Const:	Cell Const	Range: 0.45 - 0.50	Cell Const:	Cell Const
	<u>N/A</u>			<u>N/A</u>	
	<u>N/A</u>	pH std =	@ °C	<u>N/A</u>	
	<u>N/A</u>	pH std =	@ °C	<u>N/A</u>	
Slope:	Slope:	Dissolved O ₂		Slope:	Dissolved O ₂
<u>N/A</u>	<u>N/A</u>	Slope Range:		<u>N/A</u>	Slope Range:
@ Temp	@ Temp	0.6 to 1.25		<u>N/A</u>	0.6 to 1.25
	<u>N/A</u>	ORP std:		<u>N/A</u>	ORP std:
	<u>N/A</u>	240 ± 20 mV @ 25°C			240 ± 20 mV @ 25°C

End of day:
(Date/time) _____

Turbidity Meter: HF MicroTPW

Turb Meter S/N: _____

pH / Sp. Cond.
Meter: WTW pH/Cond
3400i

pH / Sp. Cond.
Meter S/N: _____

ORP / Diss O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: _____

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: N/A

Sample Characteristics: N/A

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 2,200 μS ; Historical Range from Jul 2013 - Feb 2017: 1402 - 2080 μS .

pH Prediction Limits = 6.0 - 7.7 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.57 - 6.94 s.u.

Well Closed and Locked? Y Full Suite Collected? Y # Bottles Collected: 0

Well Damaged - Not Able to Purge or Sample

Date: 5/1/2017

By:

Jonathan Wilkinson

Residuals Management

Team Member

Company: Feezor Engineering, Inc.



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

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/2/2017 0825

Casing Diameter (inches): 2

Initial Water Level (ft): 36.08

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 36.08

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 430.38

Total Volume Purged (mL): 12,300 mL

Ground Water Elev Previous Event (ft, msl): 430.38

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 197.08

Water Level after Purge (feet): 60.64

Well Total Depth Previous Event (ft): Top of pump = 197.16

Date/Time Completed: 5/2/2017 (0905)

PURGE DATA: Discharge: 4.0 sec

1.0 sec Pressure: 70 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-thru

Average Purge Rate: 308 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 60.69

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-111-SD

Dedicated: Yes No

Well Collection Sequence #: 1 of 4652

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
5/2/2017 0907	300	16.0	7.06	827	1.35	0.85	-34	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/2/2017 0710

End of day:
(Date/time) 5/2/2017 1855

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #04420084

Purging Event		Sampling Event			
Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.02	N/A	0.02	N/A	0.00	0.02
9.84	N/A	NTU std = 10.0	N/A	9.76	NTU std = 10.0
1004	N/A	NTU std = 1,000	N/A	1004	NTU std = 1,000
1435	N/A	µS std = 1,413	N/A	1421	µS std = 1,413
0.494	N/A	Cell Const: Cell Const Range: 0.45 - 0.50	N/A	0.494	Cell Const: Cell Const Range: 0.45 - 0.50
7.09	N/A	pH std = 7.03 @ 16.0 °C	N/A	7.09	pH std = 7.02 @ 20.0 °C
4.11	N/A	pH std = 4.00 @ 16.0 °C	N/A	4.13	pH std = 4.00 @ 20.3 °C
1.19	N/A	Slope: N/A	Dissolved O ₂	1.16	Dissolved O ₂
@ Temp 17.7 °C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	@ Temp 19.9 °C	Slope Range: 0.6 to 1.25
750	N/A	ORP std: 240 ± 20 mV @ 25 °C	N/A	237	ORP std: 240 ± 20 mV @ 25 °C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 65°F

Sample Characteristics: Clear

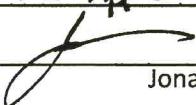
COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,000 µS; Historical Range from Jul 2013 - Feb 2017: 697 - 853 µS.

pH Prediction Limits = 6.5 - 8.0 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.94 - 7.43 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 9 - 7 Pace

MDNR collected split - Mo App I, Jodrelle, & Tritter

Date: 5/2/2017 By:  Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-114-AS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/15/2017 0842

Casing Diameter (inches): 2

Initial Water Level (ft): 13.98

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 435.28

Total Volume Pumped (ml) ≤ 900 ml

Ground Water Elev Previous Event (ft, msl): 430.14

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 76.04

Water Level after Purge (feet): 66.15

Well Total Depth Previous Event (ft): Top of pump = 26.29

Date/Time Completed: 5/15/2017 0921

BURGE DATA: Discharge: 3.0 sec. 3

0 sec Decay = 30 sec

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 37.5 ml / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-114-AS

Water Level @ Sampling (ft): 16.15

Dedicated: Yes No

Parameters: Annual: Semi-Annual:

Well Collection Sequence #: 48 of 52

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
5/15/2017 0923	325	16.8	6.53	2480	15.20	0.15	-131	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/15/2017 0720

Purging Event

Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.01	N/A	0.02	N/A	0.00	0.02
10.04	N/A	10.0	N/A	9.99	10.0
989.0	N/A	1,000	N/A	986.0	1,000
1432	N/A	µS std = Cell Const:	1,413	N/A	1,413
0.484	N/A	Cell Const:	Range: 0.45 - 0.50	N/A	Cell Const:
7.03	N/A	pH std = 7.03 @ 17.4 °C	N/A	7.11	pH std = 7.02 @ 19.5 °C
4.09	N/A	pH std = 4.00 @ 17.4 °C	N/A	4.11	pH std = 4.00 @ 19.7 °C
0.99	N/A	Slope: N/A	Dissolved O ₂ : N/A	Slope: 1.01	Dissolved O ₂ : Slope Range: 0.6 to 1.25
@ Temp 17.5°C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	@ Temp 22.1°C	Slope Range: 0.6 to 1.25
247	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	231	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 75°F

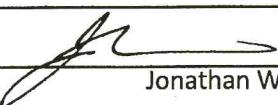
Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,400 µS; Historical Range from Jul 2013 - Feb 2017: 1556 - 2740 µS.

pH Prediction Limits = 6.3 - 6.9 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.54 - 6.72 s.u.

Well Closed and Locked? / N Full Suite Collected? / N # Bottles Collected: 7

Date: 5/15/2017	By: 	Title: Residuals Management
		Team Member
Company: Feezor Engineering, Inc.		



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-115-SS

Water Level @ Sampling (ft): 16.85

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Quarterly: Monthly: _____ Other: _____

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/15/2017 0eze	310	16.0	6.55	2690	4.69	0.17	-69	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/15/2017 0720

Purging Event

Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.01	N/A	0.02	N/A	0.00	0.02
10.04	N/A	10.0	N/A	9.99	10.0
989.0	N/A	1,000	N/A	986.0	1,000
1432	N/A	μS std = Cell Const:	1,413	N/A	1,413
0.484	N/A	Cell Const: Range:	0.45 - 0.50	N/A	0.484
7.03	N/A	pH std = 7.03 @ 17.4 °C	N/A	7.11	pH std = 7.02 @ 19.5 °C
4.04	N/A	pH std = 4.00 @ 17.4 °C	N/A	4.11	pH std = 4.00 @ 19.7 °C
0.99	Slope: @ Temp 17.5 C	Dissolved O ₂ Slope Range: 0.6 to 1.25	N/A	1.01 @ Temp N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25
247	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	231	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, 75°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 3,500 μS; Historical Range from Jul 2013 - Feb 2017: 1808 - 2740 μS.

pH Prediction Limits = 6.1 - 7.5 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.57 - 6.88 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 7

Date: 5/15/2017	By: 	Title: Residuals Management
Company: Feezor Engineering, Inc.		Title: Team Member



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 35.85

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-201A-SS

Dedicated: Yes No

Well Collection Sequence #: 15 of 46 52

Quarterly: Monthly: _____

Other:

MDNR Split Sampling
Additional 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
5/5/2017 1043	351	16.3	7.12	759	1.96	2.74	179	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/5/2017 0715

End of day:
(Date/time) 5/5/2017 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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #04480084

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.00	N/A	NTU std = 0.02 NTU std = 10.0 NTU std = 1,000 μS std = 1,413	0.02	N/A 0.00	0.02
10.17	N/A		10.0	N/A 9.96	10.0
988.0	N/A		1,000	N/A 926.8	1,000
1435	N/A		1,413	N/A 1401	1,413
0.487	N/A	Cell Const:	Cell Const:	Cell Const:	Cell Const:
7.03	N/A	Range: 0.45 - 0.50	0.45 - 0.50	N/A 0.487	0.45 - 0.50
4.08	N/A	pH std = 7.03 @ 16.8°C	N/A 6.99	N/A 7.01	7.01 @ 21.3 °C
1.11	Slope: N/A	Dissolved O ₂	Slope: N/A	Slope: 1.12	Dissolved O ₂
16.3°C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	@ Temp 24.1°C	Slope Range: 0.6 to 1.25
247	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A 236	N/A 240	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Wind ~ 10 mph, 55°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 960 µS; Historical Range from Jul 2013 - Feb 2017: 745 - 851 µS.

pH Prediction Limits = 6.4 - 8.5 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.91 - 7.21 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 8 - 7 Pac
1 Glucin

MDNR collected split - Mo App I & Iodide & tr. tine

Date: 5/5/2017 By: 
Title: Residuals Management
Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-205-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Top of Casing (ft, msl) 465.83

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/4/2017 1452

Casing Diameter (inches): 2

Initial Water Level (ft): **30.00**

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 32.09

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 435.83

Total Volume Purged (mL): 8,200 mL

Ground Water Elev Previous Event (ft, msl): 433.74

Purged Dry?: Yes No

(Measured w/ no pump)

44/13

1. (b) 1-3

PURGE DATA: Discharge: 4.5 sec. P

50 mm Program 50

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: 1.10 ml / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-205-SS

Dedicated: Yes No

Water Level @ Sampling (ft): 46.42

Well Collection Sequence #: 10 of 46 52

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
5/4/2017 1533	210	18.4	7.03	887	4.59	1.92	111	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/4/2017 1045

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.02	N/A	NTU std =	0.02	N/A	0.00
9.90	N/A	NTU std =	10.0	N/A	9.85
986.1	N/A	NTU std =	1,000	N/A	>1,100
1422	N/A	µS std =	1,413	N/A	1405
0.496	N/A	Cell Const:	Cell Const:	Cell Const:	Cell Const:
6.97	N/A	Range: 0.45 - 0.50	N/A	0.496	0.45 - 0.50
4.01	N/A	pH std = 7.01 @ 18.1 °C	N/A	7.09	pH std = 7.03 @ 18.1 °C
1.11	Slope: N/A	Dissolved O ₂	Slope: N/A	1.16	Dissolved O ₂
23.7 °C	@ Temp N/A	Slope Range: 0.6 to 1.25	@ Temp N/A	15.8 °C	Slope Range: 0.6 to 1.25
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	241	ORP std: 240 ± 20 mV @ 25°C

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #20110051

pH / Sp. Cond.
Meter: WTW pH/Cond
3400i

pH / Sp. Cond.
Meter S/N: #02200255

ORP / Diss O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling:

Rain, 45°F

Sample Characteristics:

Clear

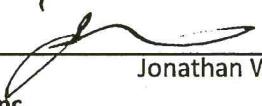
COMMENTS AND OBSERVATIONS:

Sp. Cond. Prediction Limit = 1,300 µS; Historical Range from Jul 2013 - Feb 2017: 762 - 936 µS.

pH Prediction Limits = 6.5 - 7.9 s.u.; Historical Range from Jul 2013 - Feb 2017: 6.86 - 7.27 s.u.

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 8 - 7 Place
1 Elevation

collect PZ-205-SS DWP; MDNR collected split - MO App I; Toade i tritium
Residuals Management

Date: 5/4/2017 By:  Title: Team Member

Jonathan Wilkinson

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 42.15

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-209-SS

Dedicated: Yes No

Well Collection Sequence #: 9 of 46 52

Quarterly: _____ Monthly: _____ Other:

MDNR Split Sampling
Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (µS = µmhos/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/3/2017 1102	289	13.6	7.31	709	3.73	0.29	-261	Clea

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/3/2017 0710

End of day:
(Date/time) 5/3/2017 1400

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Purging Event		Sampling Event			
Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.02	N/A	0.02	N/A	0.02	0.02
10.02	N/A	10.0	N/A	10.65	10.0
996.1	N/A	1,000	N/A	>1,100	1,000
1479	N/A	1,413	N/A	1402	1,413
Cell Const: 0.486	Cell Const: N/A	Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.486	Range: 0.45 - 0.50
7.02	N/A	pH std = 7.03 @ 17.2°C	N/A	7.09	pH std = 7.03 @ 18.5 °C
4.08	N/A	pH std = 4.00 @ 17.3°C	N/A	4.10	pH std = 4.00 @ 18.9 °C
Slope: 1.14 @ Temp 16.7°C	Slope: N/A @ Temp N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	Slope: 1.10 @ Temp 19.2°C	Dissolved O ₂ Slope Range: 0.6 to 1.25
244	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	242	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

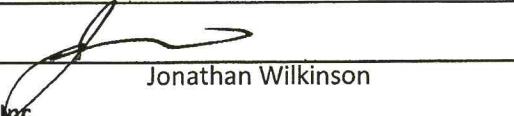
Weather Conditions @ Sampling: Rain, 58°F

Sample Characteristics: Cleer

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 13 - 1 Eberlin

MDNR collected split - Mo App I ; Iodide ; tritium

Date: 5/3/2017 By:  Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-209-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/3/2013 0850

Casing Diameter (inches): 2

Initial Water Level (ft): 22.62

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Initial Water Level Previous Event (ft): 23.65 Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 466.96

Total Volume Purged (mL): 15,300 mL

Ground Water Elev Previous Event (ft, msl): 465.93

Purged Dry?: Yes No ✓

Well Total Depth (ft): Top of pump = 101.40

Water Level after Purge (feet): **51.94**

Well Total Depth Previous Event (ft): Top of pump = 101.33

Date/Time Completed: 5/3/2017 094

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

Average Purge Rate: **340** mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-209-SD

Water Level @ Sampling (ft): 51.94

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 8 of 46 52

Quarterly: _____ Monthly: _____ Other:

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/3/2017 0944	340	13.5	7.27	826	1.35	0.33	-245	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/3/2017 0710

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.02	N/A	NTU std =	0.02	N/A 0.00	0.02
10.08	N/A		10.0	N/A 10.65	10.0
996.1	N/A		1,000	N/A >1,000	1,000
1429	N/A	μS std = Cell Const:	1,413	N/A 1407	μS std = Cell Const:
0.486	N/A		0.45 - 0.50	N/A 0.486	1,413 Cell Const: Range: 0.45 - 0.50
7.02	N/A	pH std = 7.03 @ 17.2 °C	N/A	7.09	pH std = 7.03 @ 18.5 °C
4.08	N/A		N/A	4.10	pH std = 4.00 @ 18.9 °C
1.14	Slope: N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A	1.10	Dissolved O ₂ Slope Range: 0.6 to 1.25
@ Temp 16.7 °C	@ Temp N/A		@ Temp N/A	19.2 °C	
244	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	242	ORP std: 240 ± 20 mV @ 25°C

End of day:
(Date/time) 5/3/2017 1400

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Rain, 50°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 13 - 1 Eberline

MDNR collected split - MO App I & Iodide & tritium

Date: 5/3/2017	By:	Residuals Management
		Title: Team Member
Company: Feezor Engineering, Inc.		



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 45.61

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-210-SS

Dedicated: Yes No

Well Collection Sequence #: 4 of 4852

Quarterly: _____ Monthly: _____ Other:

MDNR Split Sampling
Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/2/2017 1422	251	17.0	7.04	785	0.17	0.21	-113	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/2/2017 0710

End of day:
(Date/time) 5/2/2017 1855

Turbidity Meter: HF MicroTPW

Turb Meter S/N: #201110058

pH / Sp. Cond.
Meter: WTW pH/Cond
3400i

pH / Sp. Cond.
Meter S/N: #08200255

ORP / Diss O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Purging Event		Sampling Event			
Start of day	End of day	NTU std =	Start of day	End of day	NTU std =
0.02	N/A	NTU std =	0.02	N/A	0.00
9.84	N/A		10.0	N/A	9.76
1004	N/A		1,000	N/A	1004
1435	N/A	μS std =	1,413	N/A	1421
Cell Const: 0.494	Cell Const: N/A	Cell Const: Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.494	Cell Const: Range: 0.45 - 0.50
7.09	N/A	pH std = 7.03 @ 16.6 °C	N/A	7.09	pH std = 7.02 @ 20.0 °C
4.11	N/A	pH std = 4.00 @ 16.8 °C	N/A	4.13	pH std = 4.00 @ 20.3 °C
Slope: 1.18	Slope: N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.16	Dissolved O ₂ Slope Range: 0.6 to 1.25
@ Temp 17.7 °C	@ Temp N/A		@ Temp N/A	@ Temp 19.9 °C	
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	237	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

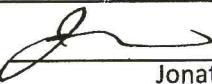
Weather Conditions @ Sampling: Sunny, Wind ~10-15 mph, 60 °F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 13 - 12 Pass - 1 Failure

MDNR collected split - MD App I ; Jodaride ; tritium

Date: 5/2/2017 By: 
Title: Residuals Management
Team Member
Name: Jonathan Wilkinson

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-210-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes ✓ No

Date/Time Initiated: 5/2/2017 1122

Casing Diameter (inches): 2

Initial Water Level Previous Event (ft): 26.19

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 461.85

Total Volume Purged (mL): 14,800

Ground Water Elev Previous Event (ft, msl): 460.81

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 101.60

Water Level after Purge (feet): 50.21

Well Total Depth Previous Event (ft); Top of pump = 101.72

Date/Time Completed: 5/2/2017 120

PURGE DATA: Discharge: 4.5 sec B

5.0 sec Pressure: 50 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

TD measured prior to pump installation = 250.13 ft



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-210-SD

Water Level @ Sampling (ft): 50.21

Dedicated: Yes No

Parameters: Annual: _____ Semi-Annual: _____

Well Collection Sequence #: 3 of 46 52

Quarterly: _____ Monthly: _____ Other:

MDNR Split Sampling
Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance (μS = μmhos/cm)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/2/2017 12:11	315	16.6	7.06	982	0.52	0.23	-118	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/2/2017 0710

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.02	N/A	0.02	N/A	0.00	0.02
9.84	N/A	10.0	N/A	9.76	10.0
1004	N/A	1,000	N/A	1004	1,000
1435	N/A	1,413	N/A	1421	1,413
Cell Const: 0.494	Cell Const: N/A	Cell Const: Range: 0.45 - 0.50	Cell Const: N/A	Cell Const: 0.494	Cell Const: Range: 0.45 - 0.50
7.09	N/A	pH std = 7.03 @ 16.6 °C	N/A	7.09	pH std = 7.02 @ 20.0 °C
4.11	N/A	pH std = 4.00 @ 16.6 °C	N/A	4.13	pH std = 4.00 @ 20.3 °C
Slope: 1.18	Slope: N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.18	Dissolved O ₂ Slope Range: 0.6 to 1.25
@ Temp: 17.7 °C	@ Temp: N/A	@ Temp: N/A	@ Temp: N/A	@ Temp: 19.9 °C	
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	237	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Wind ~15 mph, 60 °F

Sample Characteristics: Clear

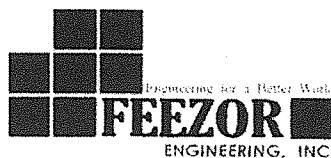
COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 13 - 12 Pace
~1 Gallon

MDNR collected split - MD App I & Iodide & tritium

Date: 5/2/2017 By:  Title: Residuals Management Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-211-SS

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Top of Casing (ft, msl) 487.41

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/2/2017 1617

Casing Diameter (inches): 2

Initial Water Level (ft): 19.43

Feb 2017 One Borehole Volume Previous Event (gal): N/A

Initial Water Level Previous Event (ft): 20.36 Feb 2017 One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 467.9E

Total Volume Purged (mL): 12.603 mL

Ground Water Elev Previous Event (ft, msl): 467.05

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 90.12

Water Level after Purge (feet): 40.55

Well Total Depth Previous Event (ft): Top of pump = 98.13

Date/Time Completed: 5/2/2017 165

PURGE DATA: Discharge: 4.5 sec

.0 sec Pressure: 52 psi

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

TD measured prior to pump installation = 149.99 ft

Average Purge Rate: 2.80 2.79 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Water Level @ Sampling (ft): 40.55

Parameters: Annual: _____ Semi-Annual: _____

Sample Point ID: PZ-211-SS

Dedicated: Yes No

Well Collection Sequence #: 6 of 46 52

Quarterly: _____ Monthly: _____

Other:

MDNR Split Sampling Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/2/2017 1657	279	16.0	7.10	690	4.14	0.27	-215	Clear

INSTRUMENT CALIBRATION DATA:

Start of day:
(Date/Time) 5/2/2017 0710

End of day:
(Date/time) 5/2/2017 1855

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 O₂
Meter: WTW pH/Oxi
3400i

ORP / Diss O₂
Meter S/N: #09480084

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	NTU std =
0.02	N/A	NTU std =	0.02	N/A 0.00	0.02
9.84	N/A		10.0	N/A 9.76	10.0
1004	N/A		1,000	N/A 1004	1,000
1435	N/A	μS std = Cell Const: Cell Const: Range:	1,413	N/A 1421	1,413
0.494	N/A		0.45 - 0.50	N/A 0.494	0.45 - 0.50
7.09	N/A		pH std = 7.03 @ 16.6°C	N/A 7.09	pH std = 7.02 @ 20.0 °C
4.11	N/A	pH std = 4.00 @ 16.8°C	N/A 4.13	pH std = 4.00 @ 20.3 °C	
1.18	Slope: N/A @ Temp 17.7°C	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A @ Temp N/A	1.16 19.9°C	Dissolved O ₂ Slope Range: 0.6 to 1.25
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A 237	ORP std: 240 ± 20 mV @ 25°C	

Other Calibration: Not Applicable

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny, Breezy, 65°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? N # Bottles Collected: 13 - 12 Pace 1瓶

MDNR collected split - Mo App I : Iodide : tritium

Date: 5/2/2017 By: Title: Team Member

Company: Feezor Engineering, Inc.



FIELD INFORMATION LOG Part 1

Facility: Bridgeton Landfill

Sample Point ID: PZ-211-SD

Location: Bridgeton, Missouri

Sampler(s): Michael Spurgeon

Sample Matrix: Groundwater

Jonathan Wilkinson

PURGE INFORMATION:

Top of Casing (ft, msl) 487.46

Method of Well Purge: Bladder Pump

Dedicated Equipment: Yes No

Date/Time Initiated: 5/27/2017 1457

Casing Diameter (inches): 2

Initial Water Level (ft): 21.7

One Borehole Volume (gal): Not Applicable

Initial Water Level Previous Event (ft): 22.33

One Borehole Volume Previous Event (gal): N/A

Ground Water Elevation (ft, msl): 465.96

Total Volume Purged (mL): 13,900

Ground Water Elev Previous Event (ft, msl): 465.13

Purged Dry?: Yes No

Well Total Depth (ft): Top of pump = 99.02

Water Level after Purge (feet): 52.43

Well Total Depth Previous Event (ft): Top of pump = 99.29

Date/Time Completed: 5/2/2012 1543

Measure field pH, Temp, Specific Conductance, Diss O₂, and Oxidation-Reduction Potential using flow-through cell.

TD measured prior to pump installation = 249.82 ft

Average Purge Rate: 346 mL / min



FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Bladder Pump

Sample Point ID: PZ-211-SD

Dedicated: Yes No

Water Level @ Sampling (ft): 52.43

Well Collection Sequence #: 5 of 46 52

Parameters: Annual: _____ Semi-Annual: _____

Quarterly: _____

Monthly: _____

Other:

MDNR Split Sampling Assessment Sampling

SAMPLE DATA:

Time & Date	Sample Rate mL/min	Temp (°C)	pH (std units)	Specific Conductance ($\mu\text{S} = \mu\text{mhos}/\text{cm}$)	Turbidity (NTU)	Dissolved O ₂ (mg/L)	ORP (mV)	Notes
5/2/2017 1545	346	15.8	7.15	944	4.12	0.94	-239	A/A ^(D) Clear

INSTRUMENT CALIBRATION DATA: 7.15

Start of day:
(Date/Time) 5/2/2017 0710

Purging Event		Sampling Event			
Start of day	End of day	Start of day	End of day	NTU std =	0.02
0.02	N/A	NTU std =	0.02	N/A	0.00
9.84	N/A	NTU std =	10.0	N/A	9.76
1004	N/A	NTU std =	1,000	N/A	1004
1435	N/A	μS std =	1,413	N/A	1421
Cell Const: 0.494	Cell Const: N/A	Cell Const: Range: 0.45 - 0.50	N/A	Cell Const: 0.494	Cell Const: Range: 0.45 - 0.50
7.09	N/A	pH std = 7.03 @ 16.6°C	N/A	7.09	pH std = 7.02 @ 20.0°C
4.11	N/A	pH std = 4.00 @ 16.8°C	N/A	4.13	pH std = 4.00 @ 20.3 °C
Slope: 1.18	Slope: N/A	Dissolved O ₂ Slope Range: 0.6 to 1.25	Slope: N/A	Slope: 1.16	Dissolved O ₂ Slope Range: 0.6 to 1.25
@ Temp 17.7°C	@ Temp N/A	@ Temp N/A	@ Temp N/A	@ Temp 19.9°C	
250	N/A	ORP std: 240 ± 20 mV @ 25°C	N/A	237	ORP std: 240 ± 20 mV @ 25°C

Other Calibration: Not Applicable

GENERAL INFORMATION:

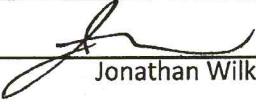
Weather Conditions @ Sampling: Sunny, Breezy, 60%

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

Well Closed and Locked? N Full Suite Collected? Y / N # Bottles Collected: 13 - 12 Pass 1 Failure

MDNR collects split - Mo App. I : Iodide : tri. Hg

Date: 5/2/2017 By: 
Title: Team Member

Residuals Management

Company: Feezor Engineering, Inc.