January through June 2023 Semi-Annual Corrective Measures Progress Report

for

Paint Street Landfill
Chillicothe, Ohio

Prepared for:

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Statement of Certification

Corrective Measures Progress Report
January through June 2023
Paint Street Landfill ID 71-00-03

I, Melisa Darrow, a qualified groundwater scientist, as a representative of WestRock, CP, LLC do certify that, to the best of my knowledge, the information contained in this report is true and accurate.

Signature _____ Date __9/14/2023_____

I, Jeffrey Manuszak, a qualified groundwater scientist, as a representative of WestRock, CP, LLC do certify that, to the best of my knowledge, the information contained in this report is true and accurate.

Signature _____ Date ___9/14/2023_____

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1.0 INTRODUCTION

WestRock, CP, LLC, (WestRock), formerly MeadWestvaco Corporation (MWV), owns the Paint Street Landfill located in Chillicothe, Ohio (Site). The Paint Street Landfill is closed and currently under corrective action monitoring. The following Corrective Measures Progress Report presents the results of semi-annual groundwater monitoring conducted between January and June 2023 as required by Ohio Administrative Code (OAC) 3745-27- 10(E)(4)(C) and as specified in the Paint Street Landfill Corrective Measures Plan ([CMP], (Mead Paper Division January 2002). The report has been prepared by Langan Engineering and Environmental Services (Langan).

1.1 Report Organization

This Report is organized into the following sections.

- Section 1.0 (Introduction) discusses the purpose of this evaluation along with a summary of the site's background and hydrogeologic setting as it pertains to groundwater monitoring.
- Section 2.0 (Data Management) presents the new data pertinent to this report and discusses its content and arrangement.
- Section 3.0 (Statistical Procedures) outlines data management and statistical approaches applied to the data.
- Section 4.0 (Results) presents the results of the statistical evaluation and their meaning in respect to the site and current status.
- Section 5.0 (Determination of Rate, Extent, and Concentration) reviews the hydrological and statistical data to determine the status and potential movement of impacted groundwater and the effectiveness of the Diversion Well Field recovery well system (RWS).
- Section 6.0 (Conclusions and Recommendations) summarizes the pertinent findings of the evaluation and presents recommendations for future activities and direction.
- Section 7.0 (References) lists the pertinent reports and documents used in preparing this report.

1.2 Site History and Background

The Site is located along the northern edge of the Paint Creek Valley, approximately 4-miles upstream of Paint Creek's confluence with the Scioto River. The hydrogeological setting of this area is characterized by a sequence of unconsolidated materials of clay, silt, sands, and gravels (up to 100 feet in thickness) overlying Devonian-aged bedrock (Ohio and Olentangy Shales).

Prior to commencement of the Paint Street Landfill operations, the Site was used as a soil-borrow source. After commencement of landfill operations, waste material, consisting of ash from the former Mead Paper mill's coal fired power plant; general mill trash; rejected lime; demolition and construction debris; and waste lumber and pallets were disposed of in the landfill.

The landfill stopped receiving waste and closure was initiated on May 1, 1989. The final cover system consists of a two-foot thick, low permeability, compacted clay layer and 18 inches of native cover soils. At the base of the slope, a perimeter toe drain was installed to collect leachate and subsurface drainage. The toe drain is connected to extraction manholes where the leachate is collected and removed from the Site for disposal. Outside of the toe drain, a compacted clay key was installed to terminate the low permeability compacted clay layer and improve collection efficiency of the perimeter toe drain. At the completion of construction, the final cover and all disturbed areas were seeded and mulched. Construction of the final cover system and closure of the landfill were completed in September 1990. Closure certification was received in May 1995.

In February 1995, the Paint Street Landfill Corrective Measures Study (CMS), dated February 2, 1995, was submitted to the Ohio Environmental Protection Agency (OEPA) in accordance with OAC 3745-27- 10(F). Copies of the CMS were submitted to the Ross County Public Library for public review and an announcement for a public meeting was placed in the Chillicothe Gazette in December 1995. The public meeting was held on January 8, 1996. There was no public attendance, and no comments were received regarding the CMS. At the request of OEPA, revisions to the CMS were incorporated into the Paint Street Landfill CMP. The revised CMP was submitted to OEPA in January 2002 and subsequently approved by the Director of OEPA on June 4, 2002.

2021 marks the end of the 30-year post closure care period for the Paint Street Landfill, WestRock has submitted a Post Closure Care Proposal and Post Closure Certification to the OEPA. The Post Closure Continued Care Program Proposal, dated June 21, 2021, outlines the status of the landfill monitoring and corrective measures and recommends changes to the operation and monitoring plans that are currently in effect for the facility (WestRock 2021).

1.3 Constituent Source

The landfill was operated as an unlined disposal facility. During the course of normal operations, precipitation generated leachate. Chemical analyses and statistical evaluation of groundwater samples taken from the assessment and detection assessment monitoring wells have shown elevated concentrations of arsenic, chloride, chemical oxygen demand (COD), and sodium. Volatile organic compounds (VOCs) were detected in the groundwater.

Butyl benzyl phthalate, was detected in well P12-40 with the last detection being in 2005. The source of the butyl benzyl phthalate has been attributed to a cementing compound used to connect the polyvinyl chloride well casing. A replacement well, designated P12-30R, was installed adjacent to P12-40 in April 2006. Butyl benzyl phthalate has not been detected in either well P12-30R or in well P12-40 in the sampling rounds conducted since the installation of P12-30R.

1.4 Recovery Well System and Groundwater Flow

As a corrective measure to the detected constituents, a Diversion Well Field Recovery Well System (RWS) was installed and consists of groundwater recovery wells located to the south and east of the landfill (Figure 1). Twelve wells were placed into operation as a corrective measure in 1989. In March 1997, P-34, was installed between Wells P-30 and P-31 to enhance capture of the groundwater east of the landfill. A production well, designated P-34R, was installed and placed into operation in June 2010.

The RWS was originally designed to extract a maximum of 7,000 gallons per minute (gpm). From 1990 through 1996, total pumping rates were 2,000 to 4,000 gpm and gradually decreased due to reduced well efficiency and physical and mechanical problems with the production wells. By 2006, the total RWS pumping rate was approximately1,000 gpm. Prior to the startup of the Diversion Well Field RWS in mid-1989, groundwater flow was in an easterly direction (Figure 2). After the startup of the RWS, groundwater flow was in a southerly and easterly direction with respect to the landfill. Figure 3 depicts the potentiometric surface map for August 18, 1994, which shows conditions that were typical for the RWS operation from 1990 through 1996.

In August 2006, STS Consultants, Ltd. (STS) MWV submitted a report to OEPA on behalf of MWV evaluating groundwater conditions and remediation activities at the Site. The report recommended ceasing operation of groundwater recovery pumping and reliance on natural attenuation and additional groundwater monitoring (STS 2006). Subsequently, a two-phase deactivation of the RWS wells in conjunction with the installation and sampling of additional wells was submitted to OEPA (STS 2007). Phase 1 of the deactivation plan included wells P-39, P-40, P-41, and P-43

and was implemented in November 2007. Following the implementation of Phase 1, groundwater conditions were evaluated and a recommendation for the implementation Phase 2 was made (AECOM 2009). OEPA authorized the implementation of Phase 2 in August 2009, wells P-37 and P-38. Operation of recovery wells P-30, P-31 and P-34 operating continued until November 2009 when P-31 was taken off- line due to pump and well integrity problems. Installation of the new production well, designated P-34R, was initiated on March 2010 and was completed in June 2010, located 50 feet north of P-34 (Figure 1).

On October 13, 2013, MWV presented OEPA with a review of the groundwater quality data, the operation of the RWS, and a proposal to reduce pumping from the RWS. OEPA provided comments to the proposal and agreed to a trial period of reduced RWS pumping (OEPA 2014), Revisions to the reduced RWS pumping plan was submitted on March 18, 2014 (Layne 2014). MWV implemented the reduced RWS pumping on April 1, 2014. Under this plan, the operation for the RWS focused on continuous pumping of only well P-30 with well P-34 as a backup. Wells P-30 and P-34 were redeveloped in April and May 2014 to facilitate implementation of the reduced RWS pumping. In accordance with the March 12, 2014, plan, the reduced RWS pumping was conducted for a trial period of two years.

The reduced pumping plan called for a preliminary review of the water quality data, focused on potential impacts from the reduced pumping, being submitted after one year of operation, and a full review of the groundwater quality being submitted following two years of operation. The preliminary review was included in the semi-annual corrective measures progress report for the period from January through June 2015 (Layne July 20, 2015), and the full review was presented in the progress report for January through June 2016 (Layne August 23, 2016(a)). From this review, it was concluded that there have been no adverse groundwater quality impacts associated with the reduced RWS pumping. Based on this result, it was recommended that the next phase of the reduced pumping plan be implemented. The March 12, 2014, proposal recommended that this phase consist of an intermittent pumping schedule, and it was proposed that the intermittent pumping schedule be on a quarterly basis with a cycle of pumping from one well (P-30, P-34 or P-34R) for one quarter and no pumping during the next quarter. The well with the highest capacity would be used for the quarterly pumping. It was further recommended that the intermittent pumping be evaluated on an annual basis for a period of two years.

In a letter dated September 21, 2016, the OEPA gave approval to conducting the intermittent pumping as a pilot program. Following receipt of OEPA's approval, WestRock implemented the quarterly pumping schedule by discontinuing pumping at the beginning of October 2016. With the discontinuation of pumping in the 4th quarter of 2016, the schedule consisted of pumping conducted during the 1st and 3rd quarters of each year, and no pumping during the 2nd and 4th

quarters. Groundwater sampling was conducted near the end of the 2nd and 4th quarters. The preliminary 1-year evaluation of the intermittent pumping was included in the semiannual corrective measures progress report for the period from July to December 2017 (Layne February 19, 2018).

In July 2016, Layne attempted to redevelop well P-30. However, during the redevelopment, a sudden breach occurred in the well casing just above the well screen. This type of failure has been observed in other pumping wells at the Paint Street facility. These failures typically have occurred in the low carbon steel casing just above the stainless-steel screen. The cause of these failures is likely the dissimilar metals used in the casing and screen. The breach resulted in the surge tool becoming locked within the well screen. The surge tool was removed utilizing a pump rig hoist and an airline to loosen the material holding the tool in place. During a subsequent video survey of the well it was determined that the well screen had been raised approximately 10 feet up into the casing when the surge tool was removed. This prevented the well from being placed back into service. Given the structural problems and proposed further reductions in pumping from the RWS, a request was made to deactivate P-30 from the RWS (Layne September 21, 2016). The intermittent pumping was being conducted utilizing wells P-34 and P- 34R.

During the OEPA's review of the Corrective Measures Progress Report for the Paint Street Landfill for the period from July through December 2016, the OEPA noticed that manganese concentrations in some of the monitoring wells at the Site exceed the manganese drinking water health advisory level (HAL) of 300 micrograms per liter (µg/L). During a March 14, 2017, conference call between OEPA, WestRock and WestRock's consultant Layne Christensen Company (Layne), OEPA indicated that they believe that the Paint Street Landfill is the cause of the elevated manganese levels in some of the downgradient wells. WestRock and Layne disagreed with this interpretation, but WestRock agreed to evaluate the historical manganese data for the Site and determine whether the manganese levels can be attributed to natural groundwater chemistry or to landfill related impact.

On March 24, 2017, the OEPA conducted sampling of seven private wells located to the east and south of the Paint Street landfill (potentially downgradient). The results of water analyses from these all these wells were below the HAL of 300 µg/L for manganese.

A report on the evaluation of the manganese data from the Site was submitted to the OEPA on April 6, 2017 (Layne April 6, 2017). The primary conclusion of the manganese evaluation report was that there is no evidence linking groundwater manganese concentrations above the HAL to impact from the Paint Street Landfill. In a letter dated June 27, 2017, OEPA disagreed with this conclusion and requested that WestRock provide an evaluation to determine if the well field pumping rate should be increased in order to capture the plume more effectively. Subsequent to

this, a Capture Zone Evaluation report (Layne December 28, 2017) was prepared and submitted to the OEPA. The capture zone evaluation indicated that pumping from wells at the P-30 location and well P-34/P-34R location shows the most effective capture of the impacted groundwater with the least amount of pumping. It was recommended that if it was determined additional pumping is necessary to capture groundwater to the east of the Paint Street Landfill, well P-30 should be repaired or replaced, and that well P-34 or P-34R be pumped in addition to P-30 to obtain the optimum capture of groundwater at the east end of the landfill.

In an interoffice memorandum dated March 13, 2018, the OEPA reiterated that it believes that the Paint Street Landfill is either directly or indirectly responsible for the elevated levels of manganese in groundwater at the site in addition to the constituents already attributed to the landfill. Also, the OEPA believes that an effective pumping configuration will need to include wells P-30, P-31, and P34/P-34R. In a conference call subsequent to this memorandum, WestRock agreed to discontinue the trial of the intermittent pumping schedule for the RWS and repair or replace P-30.

In May 2018, Layne utilized a cable-tool drill rig to pull the existing screen from P-30. A new 10-inch diameter well screen and 10-inch diameter casing were lowered into the well and bailed into place with the bottom of the screen at a depth of 50 feet. The top of the new 10-inch casing was welded to the top of the existing 14-inch casing. A quick setting, high-strength cement plug was poured into the bottom of the well and allowed to cure. Then the well was developed by surging and bailing. Following the well development, a new pump and motor was installed. Once the repairs were completed, P-30 was put back into service on May 21, 2018.

Wells P-30 and P-34R were redeveloped in June and July of 2019. The pump motor in P-34R was replaced in November 2019. In 2020, power to the pumping wells at the site was offline due to multiple lightning strikes, therefore pumping operations were discontinued from July 2020 to August 2023. Since the time of the June 2023 groundwater monitoring event, pumping has been re-initiated at P-30 and P34R in September 2023. The second semi-annual 2023 report will include pumping rates and groundwater level measurement.

In a letter to WestRock dated 08 August 2023, OEPA indicated that pumping at wells P-30 and P-34R should be continued to stabilize downgradient impacts of the landfill, specifically for manganese. It further requested that a discussion of downtime be included in the semi-annual reports. A discussion of the operational periods of the wells is provided in this report. In accordance with OEPA's request, groundwater pumping has resumed at the extraction wells subsequent to the collection of groundwater samples during the June 2023 event.

The most recent potentiometric surface map for the monitoring round conducted in June 2023

is depicted in Figure 4. Note that the surface represents non-pumping conditions and will be updated in the 2023 Annual Report. An additional potentiometric surface map (Figure 5) will be generated during the next report to document groundwater conditions now that pumping at the wells is resumed.

1.5 Groundwater Monitoring

Currently, groundwater quality at the Paint Street Landfill is monitored in accordance with the approved Corrective Measures Plan. The plan included eight groundwater monitoring wells:

- Background well P8-37.
- Detection assessment wells located at the edge of waste placement: P13-42, P14-40, and P15-35 (installed in 1994).
- Assessment wells: P9-45, P10-50, P11-52, and P12-40 (installed in 1983-1984).

The locations of the wells at the Site with respect to the landfill are shown on Figure 1. The background, detection assessment and assessment wells are sampled on a semi-annual basis.

A replacement well, designated P12-30R, was installed adjacent to P12-40 in April 2006. In July 2007, MWV installed an additional eight monitoring wells to assess groundwater quality during and following the implementation of the recovery well deactivation plan. These wells are designated P16-50, P17-50, P18-50, P19-50, P20-50, P21-47, P22-45, and P23-40 (Figure 1). Of these, wells P18-50 and P19-50 were installed as replacements for wells OW-10 and OW-11. Additionally, monitoring well P9-45R was installed as an eventual replacement well for P9-45. The additional wells were initially sampled in December 2007 and are currently sampled on a semi-annual basis. In a letter dated August 19, 2011, OEPA approved the use of P9-45R as a replacement for P9-45, and consequently P9-45 has not been sampled since the 1st half of 2011. Monitoring well P10-50 and observation well P10-73 were abandoned in December 2016.

The 16 wells that constitute the current groundwater quality monitoring program are as follows:

- Background well (upgradient of the Site) P8-37.
- P13-42, P14-40, P15-50, P19-50, P21-47, P22-45 and P23-40 located adjacent to and downgradient of the Site.
- P9-45R, P11-52, P12-40 and P12-30R located off WestRock property on the east side of Paint Creek and downgradient of the Site.
- P16-50, P17-50, P18-50 and P20-50 located on the west side of Paint Creek to the south

of the landfill in locations that are side-gradient to the Site under the current groundwater flow patterns.

The locations of the wells at the Site with respect to the landfill are shown on Figure 1. In addition to the groundwater quality monitoring wells, there are a number of observation wells and piezometers installed around the Paint Street landfill that are utilized for groundwater level monitoring.

1.6 Recovered Groundwater

All groundwater recovered from the RWS is pumped to the Pixelle Specialty Solutions LLC (formerly Glatfelter, NewPage Corporation, MeadWestvaco and Mead) mill's Water Treatment Plant (WTP). The WTP treats the water using a lime softening method in order to meet process water specifications for use in the pulp and paper manufacturing process. All process water is utilized and then treated and discharged through the mill's Wastewater Treatment Plant (WWTP). No water was recovered from the RWS during the reporting period. As mentioned previously, WestRock has resumed pumping at the RWS subsequent to the collection of the June 2023 water quality data. Pumping rates and updated potentiometric surfaces will be provided in the 2nd Semi-annual Report.

2.0 DATA COLLECTION

The monitoring wells at the Site were most recently sampled in June 2023. Sample collection, preservation, handling, shipping, and analytical procedures followed the Groundwater Monitoring Plan. The sample collection and analysis are conducted by the WestRock Analytical Services Laboratory (formerly the MeadWestvaco Safety, Health, and Environmental Laboratory). The WestRock laboratory arranges for some of the analyses to be conducted by other contract laboratories as indicated in the WestRock laboratory reports (Appendix A).

The laboratory analytical results for the current semi-annual period are included as Appendix A. The most recent laboratory results for the constituents for which statistical analyses are performed are summarized in Table 1. The historical water quality data are presented in Appendix B.

2.1 Analytical Parameters

The Paint Street Landfill Corrective Measures Plan (Mead Paper Division January 2002), as approved by the OEPA (OEPA June 4, 2002), calls for groundwater monitoring for the following seven parameters semi-annually:

- Arsenic, iron, magnesium, sodium, in accordance with United States Environmental Protection Agency (USEPA) Method SW846: 6020A
- Chloride in accordance with USEPA Method 300.0
- Chemical Oxygen Demand (COD) in accordance with USEPA Method 410.4
- Total Dissolved Solids (TDS) in accordance with Method SM 2540C

Parameters listed in OAC 3745-27-10 Appendix I plus butyl benzyl phthalate are analyzed every three years.

For several years, in addition to the required parameters, MWV had analyzed groundwater samples from the Site background well, and detection assessment and assessment monitoring wells for the constituents listed in OAC 3745-27-10 Appendix I and the semi-volatile compound butyl benzyl phthalate on a semi-annual basis and analyzed samples from these wells on a semiannual basis for the constituents listed in OAC 3745-27-10 Appendix II. The constituents analyzed for the samples from the additional monitoring wells P16-50 through P23-40 varied by well based on the STS sampling plan for these wells (STS 2007).

On behalf of MWV, Layne submitted an email to the OEPA to determine if the semi-annual analysis for the Appendix I parameters and the annual analysis for the Appendix II parameters are requirements for the current Site groundwater monitoring program (Layne October 7, 2013). The response from the OEPA was that the required parameters are those listed in the 2002 CMP. Analysis for the Appendix II parameters is not required, and analysis for the complete Appendix I list is required only every three years (OEPA October 17, 2013).

Based on this determination from the OEPA, MWV changed the parameters that are being analyzed for the groundwater monitoring for the Paint Street Landfill in 2014. The samples from the Paint Street Landfill are now analyzed for the parameters as required by the CMP plus additional parameters to help characterize the geochemical conditions at the Site. The background detection assessment, assessment monitoring wells and the additional monitoring wells installed to monitor the phased RWS deactivation are sampled semi-annually and the samples from all of the wells have been analyzed for the same parameters. The parameter list that has been used for the semi-annual sampling during the evaluation of the reduced pumping of the RWS is as follows:

- Alkalinity in accordance with Method SM 2320B
- Ammonia in accordance with USEPA Method 350.1

- Chloride, nitrate, nitrite, and sulfate in accordance with USEPA Method 300.0
- Total and dissolved metals (arsenic, barium, calcium, iron, magnesium, manganese, potassium, and sodium) in accordance with Method SW846: 6020A
- COD in accordance with USEPA Method 410.4
- TDS in accordance with Method SM 2540C
- Field analysis for pH, temperature, specific conductance, and turbidity.

The samples from all the wells were analyzed using the revised parameter list for the first time for the 1st half 2014 sampling that was conducted in April 2014, and 19 rounds of sampling using this list have now been conducted for nearly all the wells.

The background, detection assessment, and assessment monitoring wells are to be sampled every three years for all OAC 3745-27-10 Appendix I parameters. Based on the three-year sampling requirements, analysis for OAC 3745 27 10 Appendix I parameters was conducted for samples from monitoring rounds in 2013, 2016, 2019, and December 2022. During the December 2022 sampling event, Appendix I parameters were collected. As stated in Section 6.0 of the CMP, any VOC with detection during the triennial sampling event will be resampled at the next semi-annual sampling event. Toluene was detected in well P16-50 (0.6 ug/L) during the December 2022 sampling event; however, it was not resampled during the June 2023 sampling event. Langan recommends that Toluene be resampled in well P16-50 during the December 2023 semi-annual sampling event.

2.2 Data Management

Groundwater quality data were entered into an Excel spreadsheet for analyses using the Sanitas software package as wells as PHREEQC for generation of piper and stiff diagrams.

In addition to groundwater quality data, groundwater level data are collected from the recovery wells and piezometers in the landfill area on a semi-annual basis and converted to elevations for development of a potentiometric surface map. Groundwater level data collected from wells in June 2023 are included in Appendix C, and potentiometric surface maps constructed from the June 2023 event are provided on Figure 4.

2.3 Data Validation

New analytical data were evaluated to identify results that might be questionable or compro-

mised. This evaluation considered field sampling and analysis, sample blanks, outlier testing, laboratory quality control data and completeness. The water quality data from the 1st half 2023 groundwater quality monitoring are considered valid for their intended purpose based on a review from the contract laboratory.

3.0 STATISTICAL PROCEDURES

The statistical evaluation was conducted utilizing groundwater quality data from the following groundwater wells at the Site:

Detection Assessment	Assessment Wells
P13-42	P9-45R
P14-40	P11-52
P15-35	P12-40
–	P12-30R

The detection assessment wells are located downgradient of the Site but upgradient of the RWS. The assessment wells are located downgradient of the RWS.

A replacement well, P12-30R, was installed adjacent to P12-40 in April 2006 as discussed in the introductory section. Both wells have been sampled since May 2006. Samples from P12-40 have frequently had high turbidity levels. One historic sample from P12-40 had a turbidity level of 375 NTU. The average of the turbidity values for P12-40 excluding this extreme value is 15 NTU, and more than 30% of the turbidity values for P12-40 exceed 20 NTU. Because samples from P12-40 could be unrepresentative of the groundwater quality due to high turbidity values, and because there are now a sufficient number of semi-annual sample sets from P12- 30R, it is WestRock's opinion that sampling of P12-40 should be discontinued, and the well be properly abandoned. However, in an August 19, 2011, letter, the OEPA disapproved replacement of P12-40 with P12-30R. P12-40 has continued to be sampled and the sampling results have been included in the statistical analysis for this semi-annual period.

A replacement for P9-45 (P9-45R) was installed in July 2007. Also, in July 2007, additional monitoring wells were installed to evaluate the phased RWS deactivation. These wells are designated P16-50, P17-50, P18-50, P19 50, P20-50, P21-47, P22-45, and P23-40. Of these, wells P18-50 and P19-50 were installed as replacements for wells OW-10 and OW-11. From April 2004 through 2009, wells OW-10 and OW-11 were sampled along with the detection and assessment wells to evaluate the potential impact of having some of the RWS wells off-line. In the August 19, 2011, letter, the OEPA approved the use of P9- 45R as a replacement for P9-45, P18-50 as a replacement for OW-10 and P19-50 as a replacement for OW-11. Wells OW-10, OW-11 and P9-45 have not been sampled since 2011.

As discussed in Section 1.5, well P10-50 was removed from the monitoring program and was properly abandoned in December 2016. Past analytical results for P10-50 are included in Appendix B.

3.1 Statistical Methods

3.1.1 Statistical Evaluation

Statistical analyses were performed using the software package Sanitas version 9.5, by Sanitas Technologies (Formerly NIC and Intelligent Decision Technologies, Ltd. [Sanitas Technologies 2014]).

Prior to analysis, the data were screened to determine the applicable statistical procedures for evaluating groundwater quality of the assessment and detection assessment wells. This pre-qualification process considered: the number of samples per well per constituent; the proportion of the non-detect data for each constituent; and whether the data for each constituent are normally or could be transformed-normally distributed.

A statistical testing program has been developed to best meet the requirements of a sound groundwater monitoring program. The groundwater corrective action-monitoring program has incorporated a testing program that removes spatial variability and is sensitive to changes in groundwater chemistry due to a contaminant release. This goal was accomplished by utilizing intrawell statistical evaluations such as intrawell Tolerance Intervals. A Tolerance Interval is a concentration range that is constructed to contain a specified proportion of the population of observations with a specified confidence level. Tolerance Intervals are acceptable statistical methods for reviewing groundwater data as per OAC 3745-27-10 (C)(6)(c).

MCL-based Tolerance Intervals have been developed for those constituents with health-risk based concerns, and concentration-based Tolerance Intervals have been developed for those constituents without health-risk based data. Tolerance Intervals were developed using data from the eight (8) most recent sampling events. Parametric Tolerance Intervals were calculated for data sets that were normally or transform-normally distributed and had a low number of non-detect values. If less than fifteen (15) percent of a data set were non-detect values, the non-detect values were replaced with the value of one half (1/2) of the reported detection limit prior to testing for normality and calculating the Tolerance Interval. If more than fifteen (15) percent but less than fifty (50) percent of a data set were non-detect values, the data set's sample mean and standard deviation were adjusted according to the method of Aitchison prior to calculating the Tolerance Interval. If more than fifty (50) percent of a data set were non-detect values, the non-detect values were replaced with a value of one half (1/2) of the reported detection limit, and

a non-parametric Tolerance Interval was calculated. A non-parametric Tolerance Interval was also calculated if the data were not normally distributed and transforming the data did not produce a normal distribution (Sanitas Technologies 2014).

The upper limit of the parametric tolerance interval is computed as follows:

$$ULTI = X + (K \times S)$$

Where:

ULTI = upper limit of the tolerance interval;
X = the mean of the observed concentrations;
K = a factor based on the sample size, n (for n=8, K=3.188 (USEPA, 1989); and
S = the standard deviation of the concentrations.

For the non-parametric tolerance interval, the highest observed concentration from the data set (the 8 most recent samples) is set as the ULTI. For both the parametric and non-parametric tolerance intervals, the ULTI is compared to the concentration action limit. If the ULTI exceeds that limit, this is considered statistically significant evidence that the constituent concentration exceeds the concentration action limit.

In addition to the intra-well Tolerance Interval evaluation of the groundwater quality data, MWV and the OEPA agreed that trend analysis on all constituents will be conducted once per year. Trend analysis can be used to determine the significance of an apparent trend and to estimate the magnitude of the trend. The trend analysis allows evaluation of the progress of the corrective measures. Because of concerns expressed by the OEPA about the number of statistically significant increasing trends shown by the analysis of the groundwater quality data through October 2004 (OEPA June 9, 2005), additional trend analyses have been conducted on a semi-annual basis since July 2006. The annual trend analyses for this sampling event are included in this report.

In addition to the trend analyses, time series plots were prepared and examined for each well for selected constituents with all of the sampling data currently in the database. Time series plots were also prepared that plot the chloride data from each well together with the chloride data from the upgradient well P8-37. The time-series plots are included as Appendix D.

The trend analyses are performed by applying the Sen's Slope Estimator and the Mann-Kendal test for temporal trend. The Sen's Slope Estimator is a non-parametric method for estimating a linear trend (Sanitas Technologies 2014). When applied to groundwater quality data it produces results in terms of change in concentration units per year. The Mann-Kendal test was applied to

determine if trend values from the Sen's Slope Estimator were statistically significant. The Mann-Kendal evaluation is a non- parametric analysis of increase or decrease of data with respect to time that uses the relative magnitude of the data (Sanitas Technologies 2014).

As part of the RWS well deactivation plan (STS 2007), Sen's Slope trend analyses were conducted on the dissolved iron results. All other statistical analyses of metals data are conducted on the total metal results.

3.1.2 Concentration Action Levels

OAC 3745-27-10 (F)(7) requires the establishment of concentration action levels for those constituents of concern identified in the CMP. Arsenic, chloride, COD, and sodium are the constituents identified in the CMP that require concentration action level s. The concentration action level is set at the MCL for constituents for which an MCL has been promulgated under the Federal Safe Drinking Water Act (arsenic). concentration action level s have been developed for the remaining constituents of concern based on toxicity assessment and well data. Well specific standards are not proposed because the Tolerance Interval statistic will trigger a constituent as statistically significant at concentrations below the MCL or concentration action level.

The MCL and concentration action level for constituents of concern are listed below:

Arsenic	10 µg/L (0.010 mg/L)	MCL
Chloride	60 mg/L	ACL
COD	60 mg/L	ACL
Sodium	222 mg/L	ACL

Notes:
micrograms per liter (µg/L)
milligrams per liter (mg/L)

4.0 DISCUSSION OF RESULTS

The results of the statistical analyses completed by Layne are included in Appendix E of this report. Table 2 summarizes the results for each well, including whether or not the apparent concentration trends are statistically significant.

4.1 Individual Well Results

A tabulated summary of the statistical analyses is provided below. Wells with data that do not exceed a ULTI are indicated in blue.

Well	Constituents Exceeding ULTI [1]	ULTI [2]	Concentration Action Level	Statistically Significant Trends for 8 Most Recent Samples [3]	Discussion
Up-Gradient Well					
P8-37	Chloride	65.3 mg/L	60 mg/L	Decreasing: Nitrate	None of the last 8 chloride concentrations exceeded the ULTI. The last 8 chloride concentrations varied from 29 to 51 mg/L.
Down-Gradient Wells					
P9-45R	None			Decreasing: Ammonia Manganese Manganese-Dissolved Potassium Increasing: Magnesium	
P11-52	None				
P12-40	Arsenic	19.86 µg/L	10 µg/L	Increasing: Barium Calcium Chloride COD Potassium Sodium Decreasing: Sulfate	The arsenic concentrations in the last 8 samples varied from 4 to 14 µg/L and the arsenic concentration exceeded the action limit in 2 of the last 8 samples (on 10/8/20 and 11/17/21). As discussed previously, P12-40 has historic turbidity concerns.
P12-30R	None			Increasing: Chloride COD Potassium	
P13-42	Arsenic Chloride	30.43 µg/L 68.63 mg/L	10 µg/L 60 mg/L	Increasing: Barium Chloride Potassium	The arsenic concentrations in the last 8 samples varied from 20 to 27 µg/L and all the last 8 arsenic concentrations exceeded the action level. The chloride concentrations in the last 8 samples varied from 30 to 54 mg/L and none of the last 8 chloride concentrations exceeded the action level.
P14-40	Arsenic COD	50.96 µg/L 65.71 mg/L	10 µg/L 60 mg/L	Decreasing: Magnesium Sodium TDS	The arsenic concentrations in the last 8 samples varied from 3 to 32 ug/l and 1 of the last 8 arsenic concentrations equaled or exceeded the action level (on 6/7/21). The COD concentrations varied from 39 to 52 mg/l and none of the last 8 COD concentrations exceeded the action level.

Well	Constituents Exceeding ULTI [1]	ULTI [2]	Concentration Action Level	Statistically Significant Trends for 8 Most Recent Samples [3]	Discussion
P15-35	Chloride	65.65 mg/L	60 mg/L	Decreasing: Ammonia	The chloride concentrations in the last 8 samples varied from 36 to 54 mg/L and none of the last 8 concentrations exceeded the action limit.
P19-50	Chloride	86 mg/L	60 mg/L	Increasing: COD	The chloride concentrations in the last 8 samples varied from 37 to 86 mg/L and 1 of the last 8 chloride concentrations (on 10/6/20) exceeded the action level.
P21-47	None				
P22-45	None			Decreasing: Magnesium Increasing: Sodium	
P23-40	Arsenic COD	43.11 µg/L 66.49 mg/L	10 µg/L 60 mg/L	Decreasing: Arsenic	The arsenic concentrations in the last 8 samples varied from 36 to 40 ug/L and all the last 8 arsenic concentrations exceeded the action level. The COD concentrations varied from 30 to 55 mg/L and none of the last 8 samples exceeded the action limit.
Side-Gradient Wells					
P16-50	None			Increasing: COD	
P17-50	None			Increasing: Barium Calcium	
P18-50	None			Increasing: Sulfate	
P20-50	None			Increasing: Chloride COD Sulfate	

Notes:
1) TI - tolerance interval; Tolerance intervals calculated for arsenic, COD, chloride and sodium.
2) ULTI - upper limit of tolerance interval calculated for the 8 most recent analytical results for the well and constituent indicated.
3) The trend analyses were conducted for the 8 most recent analytical results for the well and constituent indicated.

The ULTI for arsenic exceeds the concentration action level in well P12-40. However, the arsenic concentrations in P12-40 exceed the action level in only four of the last 24 samples. As noted previously, P12-40 has historically generated turbid samples. In the adjacent well, P12-30R, the ULTI for arsenic is below the concentration action level, and the maximum arsenic concentration

that has been observed in the 32 samples obtained is 7 µg/L.

For the 1st half 2023 data set there are no constituents with statically significant increasing trends in P11-52. Historically, statistically significant increasing trends for alkalinity, barium, COD, total iron, potassium, sodium and TDS were observed in P11-52. In the last five sampling events, the concentrations of these constituents have either stabilized or decreased slightly.

4.2 Geochemical Characterization

4.2.1 Stiff and Piper Diagrams

As indicated in Section 2.1, in the selection of the revised list of analytical parameters for the Paint Street Landfill monitoring program, parameters were included to help characterize the geochemical conditions at the Site. The parameter list includes the major anions and cations likely to be present in groundwater.

Graphical methods were utilized to characterize the geochemical characteristics of the groundwater at the Paint Street Landfill. The graphical methods utilized included Stiff diagrams and Piper diagrams. Stiff diagrams can be constructed to facilitate rapid graphical comparison of the distribution of major anions and cations among water samples (Freeze and Cherry 1979). The diagrams are constructed by converting the major ion concentrations from mg/l to milliequivalents per liter (meq/L), which is done by dividing the concentration in mg/L by the molecular weight and multiplying by the valence. The Stiff diagrams are created by plotting the concentrations of the major anions: chloride, bicarbonate, and sulfate with the distance from the central axis increasing to the right proportional to the concentrations; and concentrations of the major cations: sodium plus potassium, calcium and magnesium with the distance from the central axis increasing to the left proportional to the concentrations. A line is then drawn connecting the endpoints of the results for the different ions.

Individual Stiff diagrams were prepared for the analytical results for each well in the monitoring program for the samples collected in the 1st half of 2023. To show the spatial distribution of the water quality, the individual Stiff diagrams have been arranged on the map presented as Figure 6. The stiff diagrams for the individual wells are also presented in Appendix F along with the Piper diagrams.

Piper diagrams graphically display the proportions of the major cations and anions in water samples on trilinear diagrams (Freeze and Cherry 1979). The percentages of the major cations (calcium, magnesium, and sodium + potassium) are displayed on a trilinear diagram on the lower left. The percentages of the major anions (chloride, sulfate, and bicarbonate + carbonate) are displayed on a trilinear diagram on the lower right, and a central diamond-shaped field displays

proportions of sums of the major cations and anions projected from the lower trilinear plots. Piper diagrams were prepared for the analytical results for each well in the monitoring program for the samples collected in 1st half 2023. Figure 7 depicts the Piper diagram for the 1st half 2023 samples, and Piper diagrams for each well are included in Appendix F. No adjustments to contract reported laboratory alkalinity values were utilized in the reporting period.

Estimated Alkalinity Values Used for Stiff and Piper Diagrams						
Well	Laboratory Reported Result for 1st Half 2023		Average of Previous 8 Results	Estimated Value Used for Piper and Stiff Diagrams		
	Alkalinity (mg/L)	Charge Balance Error (percent)	Alkalinity (mg/L)	Alkalinity (mg/L)	Charge Balance Error (percent)	Source of Estimated Alkalinity Value
P8-37	330	-3.31	318.8	330	-3.31	Laboratory result
P9-45R	530	0.01	461.3	530	0.01	Laboratory result
P11-52	750	-3.74	581.3	750	-3.74	Laboratory result
P12-40	630	-1.70	502.5	630	-1.70	Laboratory result
P12-30R	580	-2.79	458.8	580	-2.79	Laboratory result
P13-42	580	-2.70	475	580	-2.70	Laboratory result
P14-40	790	-4.25	782.5	790	-4.25	Laboratory result
P15-35	300	-3.98	287.5	300	-3.98	Laboratory result
P16-50	360	0.88	341.3	360	0.88	Laboratory result
P17-50	390	-2.27	355	390	-2.27	Laboratory result
P18-50	410	-3.12	415	410	-3.12	Laboratory result
P19-50	340	-3.64	297.5	340	-3.64	Laboratory result
P20-50	410	-3.14	427.5	410	-3.14	Laboratory result
P21-47	540	0.66	530	540	0.66	Laboratory result
P22-45	530	-0.66	531.3	530	-0.66	Laboratory result
P23-40	990	-5.16	910	990	-5.16	Laboratory result

4.2.2 Geochemical Characterization Results

The wells P13-42 and P23-40 have arsenic concentrations at levels above the concentration action level (10 µg/L) and have markedly higher arsenic concentrations than the other wells at the Site. The average arsenic concentrations for the last eight samples were 23 and 38 µg/L for wells P13-42 and P23-40, respectively, with both averages being above the arsenic concentration action level of 10 µg/L. Well P14-40 has also had higher arsenic concentrations than other wells on the site, but only two of the last eight arsenic results for P14-40 have been above the concentration action level and the average arsenic concentration in the last eight samples is 11 µg/L. The general water quality in P14-40 is similar to the general water quality in P23-40. In general, wells P14-40 and P23-40 have higher levels of alkalinity, COD, magnesium, potassium, sodium and TDS than the other wells at the Site. The elevated levels of sodium in P14-40 and P23-40 are apparent with the maximum sodium concentration from all the other wells for the last eight samples being 55 mg/L, whereas the minimum sodium concentrations from both wells P14-40 and P23-40 from the last eight samples was 120 mg/L (none of the sodium concentrations from the

last eight samples exceed the concentration action level of 222 mg/L). The average COD concentrations for the last eight samples were 41 and 43 mg/L for P14-40 and P23-40, respectively, with both averages below the concentration action level of 60 mg/L. Wells P14-40 and P23-40 have noticeably lower concentrations of sulfate and manganese with respect to the other wells on-site. Well P14-40 and P23-40 do not have chloride concentrations that are elevated compared to other wells at the Site. The average chloride concentrations in P14-40 and P23-40 from the eight most recent samples (41 and 44 mg/L, respectively) are about the same as the average chloride concentration in the upgradient well P8-37 (39 mg/L).

Although P13-42 has the second highest average arsenic concentrations of the wells at the Site (22 µg/L for the last eight samples and above the concentration action level of 10 µg/L), it does not have particularly high levels of alkalinity, ammonia, magnesium, potassium, sodium, COD or TDS. The average sodium concentration for the last eight samples was 42 mg/L (concentration action level 222 mg/L). The average COD concentration for the last eight samples was 12 mg/L (concentration action level 60 mg/L). P13-42 does have among the higher barium and iron concentrations as do P14-40 and P23-40. However, other wells including P9-45R, P11-52 and P21-47 have iron concentrations as high as or higher than those in P13-42.

The Stiff diagrams show the distinct difference of the water quality of the two wells on the east side of the landfill, P14-40 and P23-40, with respect to the water quality in the wells at the rest of the Site. The Stiff diagrams show the water from these wells is noticeably higher in bicarbonate (alkalinity), sodium and magnesium and lower sulfate relative to the other wells. As shown on Figure 6, the wells to the east and southeast of the landfill tend to have higher alkalinity.

The Piper diagrams show that calcium is the major cation for most of the wells and bicarbonate is the major anion. As shown on Figure 7, the wells that appear as atypical on the Piper diagram are P14-40 and P23-40, which have a lower proportion of calcium than the other wells and have little or no sulfate. The other wells have relatively similar proportions of major cations. The proportions of major anions are also relatively similar among the other wells, although there is more variation in the proportions of the anions than there is in the proportions of the cations.

The geochemical evaluation shows that the groundwater quality at wells P14-40 and P23-40 is distinctly different from the groundwater quality at the other wells at the Site. The groundwater quality in downgradient wells P12-30R and P12-40, are more similar to that of the other wells on Site. Although there are elevated arsenic concentrations in P13-42, the general water quality in P13-42 is more similar to the surrounding wells that have much lower arsenic concentrations than it is to the water quality in P14-40 and P23-40. The geochemical evaluation indicates that the current extent of landfill influenced groundwater is generally limited to the zone between the landfill and Paint Creek. As noted by OEPA in its letter dated 8 August 2023, some influence on

the groundwater chemistry may be seen at well P11-52 based on the general chemistry signature; however, it should be noted that turbidity of this well exceeded 40 NTUs during the sampling period. Well P11-52 also shows markedly different values in manganese and iron when compared to other nearby wells (P12-30R, P12-40, and P14-40). OEPA previously sampled the domestic wells downgradient of the landfill and none exceeded the HAL of 300 ug/L.As discussed previously, WestRock has restarted pumping at wells P30 and P34R and will continue to monitor the groundwater conditions.

4.3 Dissolved Iron Trend Analysis

As part of the previous plan for the phased deactivation of RWS wells, a trend analysis of the dissolved iron concentrations was performed. STS recommended using statistically increasing iron concentrations in the new monitoring wells as an indicator that the deactivation of RWS wells might be resulting in adverse changes in groundwater quality. Statistically significant increases in dissolved iron concentrations in specified monitoring wells is the criteria for the potential reactivation of RWS wells (STS 2007). The results of the trend analysis for dissolved iron are summarized in Table 3.

As indicated in Table 3, none of the monitoring wells currently show statistically significant increasing trends for dissolved iron. Six wells, P11-52, P12-30R, P12-40, P13-42, P16-50, and P-17-50 show increasing trends that are not statistically significant. Six wells, P14-40, P15-35, P16-50, P18-50, P19-50, and P20-50 show decreasing trends that are not statistically significant.

An isoconcentration map for dissolved iron for the 1st half of 2023 is presented in Figure 8. The distribution of dissolved iron in the groundwater has not shown substantial variations from what has been presented previously. On the basis of the current results, there are no apparent changes in the dissolved iron concentrations that would indicate an adverse groundwater quality change associated with the deactivation and reduced pumping of RWS wells.

4.4 Arsenic Distribution

The most recent data indicated that the arsenic exceeded the concentration action level in wells P13-42 (23 µg/L) and P23-40 (36 µg/L). Total arsenic was less than the detection level in the most recent samples of wells P8-37, P9-45R, P11-52, P19-50, P20-50, and P22-45. In all other wells, although arsenic was detected, it was below the concentration action level. A summary of the total arsenic trend analysis results is presented in Table 4. None of the wells have statistically significant trends for arsenic for the current data set, with the exception of P23-40 which has a significant decreasing trend for the arsenic concentrations.

An isoconcentration map depicting the total arsenic values at the Paint Street landfill from the 1st

half 2023 samples is presented in Figure 9. The arsenic isoconcentration map for the 1st half 2023 is similar to the isoconcentration map for the 2nd half of 2022 (Langan, 2023).

Arsenic is a naturally occurring element, and the results of the OEPA ambient groundwater monitoring program have shown that groundwater in the lower portions of sand and gravel aquifers in Ohio might have elevated concentrations of naturally occurring arsenic (OEPA 2005). The US Geological Survey has also documented the occurrence of arsenic in the groundwater in sand and gravel aquifers in Ohio (Thomas 2003). US Geological Survey researchers have noted elevated concentrations of arsenic in Devonian-aged black shale (Tuttle and Breit 2004), and these deposits outcrop and subcrop in the Paint Creek Valley.

In May 2012, MWV obtained samples from the shale outcrop to the north and east of the Paint Street Landfill (Layne September 7, 2012). The shale samples were collected at three (3) locations to the north and east of the landfill. At each location two (2) shale samples were collected, with the first sample being from the exposed outcrop surface and the second sample was collected from a few inches below the exposed outcrop surface. An additional shale sample was collected from the scree slope just below an outcrop. The samples were analyzed by the MWV Laboratory for arsenic and iron content and pH. The total arsenic concentrations in the exposed shale samples varied from a minimum of 18 to a maximum of 150 milligrams per kilogram (mg/kg equivalent to parts per million), while the total arsenic concentrations in the shale samples from below the surface varied from 32 to 40 mg/kg. The total iron concentrations in the exposed shale samples varied from 12,300 to 54,500 mg/kg, while the total iron concentrations in the shale samples from below the surface varied from 20,000 to 30,800 mg/kg. The sample results indicate the potential for the shale bedrock to act as a source of arsenic and iron in the groundwater.

It is WestRock's opinion that the elevated arsenic concentrations in the area immediately downgradient of the landfill are attributed to the reducing conditions in the groundwater in this area mobilizing the naturally occurring arsenic (STS 2006, STS, 2008 and MWV, September 7, 2010). As presented in the 2006 Paint Street Landfill Evaluation conducted by STS Consultants, Ltd. (now AECOM), there are three distinct reduction-oxidation (redox) zones around the landfill. There is an area of oxidizing conditions upgradient of the landfill; there is an area of reducing conditions immediately downgradient of the landfill; and there is an area of oxidizing conditions side-gradient and downgradient of the landfill. The highest arsenic concentrations are observed in the zone of reducing conditions immediately downgradient of the landfill.

Because of the location of the detection assessment wells P13-42 and P14-40 near the edge the landfill, it is not surprising that these wells exhibit elevated concentrations of constituents that are associated with the landfill and the resultant metals mobilization caused by landfill generated

reducing conditions. These wells are located downgradient of the Paint Street landfill but upgradient of the RWS wells P-30 and P-34R.

Well P23-40 is located close to the bedrock valley wall that is present to the north of the landfill. The sand and gravel aquifer becomes thinner and finer from observation wells P14-40 to P23-40 and is not present at P-1R. The median of the arsenic concentrations in P23-40 from the last eight samples is about three times the median arsenic concentration in P14-40 and nearly double the median arsenic concentration in P13-42, and both P13-42 and P14-40 are closer to the landfill than P23-40.

Additionally, the median of the ammonia concentrations in P23-40 in the last eight samples is about two times the median ammonia concentration in P14-40. Elevated ammonia concentrations are characteristic of the reducing conditions that can mobilize arsenic in groundwater (USGS 2007). The observation of the highest arsenic concentrations in P23-40 is likely due to its being the closest to the bedrock wall of the wells that are currently being sampled. The location of P23-40 at the northern boundary of the aquifer in an area where the permeability is likely low could be conducive to reducing groundwater conditions that mobilize naturally occurring arsenic and iron, and therefore not directly associated with the landfill.

4.5 Manganese Distribution

An isoconcentration map depicting the distribution of the total manganese in the groundwater at the Site based 1st half 2023 sample results is presented in Figure 10. The manganese distribution for the most recent samples is similar to that for the 2nd half 2022 samples (Langan, 2023). Well P11-52 continues to have the highest manganese concentration with the most recent sample result being 980 µg/L. The manganese concentrations in P11-52 have been relatively stable over the last ten sampling events.

The primary conclusion of the manganese evaluation report (Layne April 6, 2017) was that there is no evidence linking groundwater manganese concentrations above the HAL (300 µg/L) to impact from the Paint Street Landfill. This conclusion was also reached in a subsequent semi-annual progress report (Layne February 19, 2018). However, in response to the OEPA's concerns about the elevated manganese levels, WestRock has discontinued the trial of intermittent pumping of the RWS and repaired the RWS well P-30 and placed it back into service subsequent to this sampling event.

4.6 Chloride Distribution

For the 1st half 2023 data set, the ULTI for chloride is exceeded in wells P13-42, P15-35, and P19-50. However, the ULTI for chloride is also exceeded in the upgradient well P8-37. None of the

chloride concentrations exceed the action limit of 60 mg/L in the water quality samples for the 1st half 2023. The higher chloride concentrations tend to be in a band between wells P8-37 and P19-50 to the south of the Paint Street Landfill. The chloride concentrations in the wells down-gradient and side-gradient to the landfill tend to be similar to or lower than the chloride concentrations in the upgradient well P8-37. The only wells for which some of the chloride concentrations are noticeably higher than those in P8-37 are P13-42 and P19-50.

Given that none of the wells have chloride concentrations above the action level and that the chloride concentrations in these wells are not substantially higher than the chloride concentration in the well upgradient to the landfill, the occurrence of chloride concentrations exceeding the ULTI does not appear to be associated with impact to groundwater from the landfill. The occurrence of chloride concentrations exceeding the ULTI appears to be related to general trends in groundwater chloride concentrations in the area of the landfill.

4.7 Summary of Results

The results of the 1st half 2023 groundwater monitoring at the Paint Street Landfill are similar to those of past sampling events. Wells P9-45R, P11-52, P12-30R, P16-50, P17-50, P18-50, P20-50, P21-47, and P22-45 do not have any constituents that exceed the established concentration action limits. There were no wells that exceeded the ULTI for sodium for the 1st half 2023 data set.

Wells P13-42, P14-40 and P23-40, which have concentrations of one or more of arsenic, chloride, and COD that exceed the ULTIs, are located at or near the limits of waste placement and are situated to monitor constituents of concern from the landfill. The ULTI for arsenic exceeds the concentration action level in well P12-40. However, the actual arsenic concentrations in P12-40 exceeded the action level in only four of the last twenty-two samples. Because of frequent elevated turbidity levels in samples from P12-40, it is WestRock's opinion that the water quality data from P12-40 are not representative of the groundwater quality at the well location and should be considered invalid. In the adjacent well, P12-30R, the ULTI for arsenic is below the concentration action level, the most recent arsenic result was 7 µg/L, and the arsenic concentration has not exceeded 7 µg/L in the thirty-five samples obtained from P12-30R since 2006. The ULTI for chloride in wells P13-42, P15-35, and P19-50 exceeds the concentration action limit for the 1st half 2023 data set. The chloride concentrations in the upgradient well P8-37 also exceed the ULTI. For the most recent sample set, none of the chloride concentrations exceed the action limit of 60 mg/L.

For the 1st half 2023 data set, there are no wells that show statistically significant increasing trends for arsenic concentrations.

The geochemical characterization shows that the groundwater quality at wells P14-40 and P23-40 is distinctly different from the groundwater quality at other wells at the Site. Wells P14-40 and P23-40 have higher levels of alkalinity, ammonia, magnesium, potassium, sodium, COD and TDS and noticeably lower concentrations of sulfate and manganese with respect to the other wells on-site. The water quality in the wells downgradient of P14-40 and P23-40 does not show this characterization. The current extent of landfill influenced groundwater is generally limited to the zone between the landfill and Paint Creek, with some influence of the chemistry possible at well P11-52. WestRock has reimplemented pumping at the adjacent extraction wells and will monitor trends at well P11-52.

5.0 DETERMINATION OF RATE, EXTENT, AND CONCENTRATION

5.1 Diversion Well Field RWS

Because of the OEPA's concern of manganese in the groundwater near the Site, WestRock agreed to cease the intermittent pumping trial of the RWS. Pumping for the recovery of groundwater on the east side of landfill has been reinstated as of September 2023 at recovery wells P-30 and P-34R. Pumping at the two recovery wells was not performed during the reporting period due to repairs to the electrical system. The next monitoring report will provide updated data on groundwater pumping performed in 2023.

Groundwater level measurements were most recently conducted at the Site during the water quality sampling in May and June 2023. A potentiometric surface map based on the groundwater levels in May and June is presented on Figure 4. Measurements of water levels from P21-47 appear anomalous compared to historic levels. P21-47 water level will be reevaluated in the next event and the June 2023 level is excluded from the generated potentiometric surface on Figure 4. This map represents non-pumping conditions. An additional figure will be prepared during the next reporting period to document the pumping condition potentiometric surface.

Previously a groundwater flow model was used to simulate groundwater capture from the pumping wells. As the wells were not pumped during this sampling event, no simulations were run.

5.2 Average Groundwater Flow Velocity

Average groundwater flow velocities between the landfill and adjacent recovery wells were computed using the following equation:

$$v = (K\, dh/dl) / ne \qquad [1]$$

where:

v = average groundwater velocity (L/T)
K = hydraulic conductivity of the aquifer (L/T)
dh/dl = hydraulic gradient (dimensionless)
ne = effective porosity (dimensionless)

Average aquifer hydraulic conductivity values (K) for the Paint Street Landfill vary from 335 feet per day (ft/day) south of the landfill to 134 ft/day east of the landfill. Based on the potentiometric surface map shown in Figure 4, the average hydraulic gradient on the south side of the landfill in June 2023 is estimated to be 0.0021 feet change in head per foot of distance (ft/ft). Assuming an effective porosity of 0.3 (OEPA 1995) and using the above equation, the average groundwater flow velocity to the south of the landfill is 2.3 (ft/day). This compares with an average estimated velocity of 3.0 (ft/day) for in December 2022.

Based on the potentiometric surface map shown in Figure 4, the average hydraulic gradient on the east side of the landfill in the vicinity of P-31 for June 2023 is estimated to be 0.0016 ft/ft. Again, assuming an effective porosity of 0.3, the average groundwater flow velocity between the landfill and recovery well P-31 is 0.7 (ft/day). This compares with an average velocity of 0.5 (ft/day) estimated for December 2022.

As equation [1] indicates, the calculated flow velocity is proportional to the hydraulic gradient of the groundwater surface and the hydraulic conductivity of the aquifer materials. Consequently, estimated average groundwater flow velocities will vary correspondingly in response to the spatial variability of these parameters.

5.3 Distribution of Leachate Derived Constituents

Based on the groundwater flow patterns shown in Figure 4, and the generally consistent concentrations in the assessment monitoring wells, it follows that the extent of landfill impacted groundwater is generally limited to the zone between the landfill and Paint Creek. Based on the groundwater geochemistry, some impacts may be seen at P11-52; however, it should be noted that results at this well may have been influenced by increased turbidity at the well. As stated previously, pumping at P-30 and P-30R have be reinstated and the conditions will continued to be monitored.

6.0 CONCLUSION AND RECOMMENDATIONS

6.1 Conclusions

Statistical analyses of groundwater quality data from the Paint Street Landfill using intrawell statistical procedures indicate that none of the wells exceed the ULTI for sodium. Groundwater from

wells P12-40, P13-42, P14-40 and P23-40 exceeds the ULTI for arsenic. Groundwater from wells P14-40 and P23-40 exceeds the ULTI for COD. Groundwater from wells P13-42, P15-35, and P19-50 exceeds the ULTI for chloride. During the same time span, the chloride concentrations from the upgradient well P8-37 also exceeded the ULTI. In the most recent sample results, none of the actual chloride concentrations exceeded the concentration action limit.

Trend analyses of the eight most recent sampling events indicate that for the 1st half 2023 data set no wells currently have statistically significant increasing trends for arsenic. There is currently a statistically significant decreasing trend for arsenic in P23-40. Wells P12-30R, P12-40, P13-42, P16-50, P19-50, P20-50, and P22-45 have significantly increasing trends for calcium, COD, and/or sodium. There are statistically significant trends for Barium (P12-40, P13-42, and P17-50), calcium (P12-40 and P17-50), magnesium (P9-45R), potassium (P12-30R, P12-40, and P13-42), and sulfate (P18-50 and P20-50). Data from future sampling events will help determine the significance of the statistical analyses of the water quality data from the 1st half 2023 sampling event.

An isoconcentration map for dissolved iron for the 1st half 2023 is presented in Figure 8. Figure 9 presents the total arsenic isoconcentration map for the 1st half 2023, and Figure 10 presents an isoconcentration map for manganese. The distributions of dissolved iron, arsenic and manganese in the groundwater for the 1st half 2023 do not show substantial variations from what were presented for the 2nd half 2022 data set. There are currently no wells with statistically significant increasing trends for dissolved iron or total arsenic. On the basis of the current results, there are no apparent changes in the dissolved iron or total arsenic concentrations that would indicate an adverse groundwater quality change.

6.2 Recommendations

As 2021 marked the end of the 30-year post closure care period for the Paint Street Landfill, WestRock has submitted a post closure care proposal and post closure certification to the Ohio EPA. The Post Closure Continued Care Program Proposal, dated June 21, 2021, outlines the current status of the landfill monitoring and corrective measures and recommends changes to the operation and monitoring plans that are currently in effect for the facility (WestRock 2021). Changes to the post closure care and monitoring will be implemented once approval is received from the Ohio EPA.

Because samples from P12-40 have frequently had high turbidity levels, which could cause the samples from P12-40 to be unrepresentative of the groundwater quality, and because there are now a sufficient number of sample sets from the adjacent well P12-30R, it is recommended that sampling of P12-40 be discontinued, and that P12-40 be properly abandoned. Samples would continue to be obtained from P12-30R for the groundwater monitoring program, which is located

approximately 10 feet from P12-40.

A formal request to abandon P12-40 was submitted to the Ohio EPA on December 7, 2022. The abandonment request includes a justification for the removal of P12-40 from the monitoring network and also includes well boring logs and well construction details and supporting data (Ranney, 12/7/2022). In a letter dated August 14, 2023, OEPA denied the request to abandon the well. As noted in the response letter, WestRock will continue to monitor Well P12-40, and will submit additional information as suggested by OEPA on the well abandonment request.

Groundwater extraction at the RWS has been reinstated at wells P-30 and P30R. Pumping rates and groundwater contours should be summarized and provided in the next sampling report as requested by OEPA. Groundwater levels at P21-47 were anomalously high compared to the past monitoring events and should be reassessed and confirmed during the next sampling event. Langan also recommends the sampling for Toluene at well P16-50 as it was detected just above the reporting level in December 2022 as part of the Appendix I sampling event.

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Corrective Measures Progress Report
Paint Street Landfill

Tables

Table 1

Water Quality Analysis Summary for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Constituent (Units)	Well / Sampling Date	Up-gradient	Down-gradient	Down-gradient	Down-gradient	Down-gradient	Down-gradient	Down-gradient	Down-gradient
	Well	P8-37	P9-45R	P11-52	P12-40	P12-30R	P13-42	P14-40	P15-35
	Sampling Date	5/25/2023	5/25/2023	5/25/2023	5/25/2023	5/25/2023	6/6/2023	6/7/2023	6/6/2023
Alkalinity (mg/L)		330	530	750	630	580	580	790	300
Ammonia (ug/L)		29	150	640	160	<20.0	1000	1400	350
Arsenic (ug/L)		<2.0	<2.0	<2.0	4	7	23	3	3
Arsenic-Dissolved (ug/l)		<2.0	<2.0	<2.0	3	<2.0	20	2	3
Barium (mg/L)		0.09	0.23	0.42	0.41	0.31	0.4	0.31	0.1
Calcium (mg/L)		95	170	170	140	130	140	110	91
COD (mg/L)		<30	<30	<30	<30	<30	16	52	18
Chloride (mg/L)		49	31	42	36	34	54	39	45
Iron (mg/L)		<0.03	12	20	6.2	3.8	17	4	3.2
Iron-Dissolved (mg/l)		<0.03	11	3.4	4.7	0.42	16	3.8	2.3
Magnesium (mg/L)		40	35	40	44	40	30	54	33
Manganese (ug/L)		<10	270	980	310	520	80	180	630
Manganese-Dissolved (ug/L)		<10	270	980	330	460	80	170	610
Nitrate (ug/L)		460	<140.0	<140.0	<140.0	<140.0	<140.0	<140.0	<140.0
Nitrite (mg/L)		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Potassium (mg/L)		2.1	3.2	8	8	7.7	5.3	6.9	3.6
Sodium (mg/L)		28	26	53	50	43	51	120	32
Sulfate (mg/L)		91	75	1.7	3.5	5.6	2.3	1.5	110
Sulfide (ug/L)		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
TDS (mg/L)		550	610	690	490	610	610	820	520
Turbidity (NTU)		<1.0	13.73	40.85	23.81	34.35	11.64	<1.0	20.47

Alternative Concentration Levels have been established for the following four (4) constituents for the Paint Street Landfill:

	Alternative Concentration Levels (mg/L)
Arsenic	0.010 (10 ug/L)
COD	60
Chloride	60
Sodium	222

n/a - not analyzed

Table 1 (continued)

Water Quality Analysis Summary for the 1st Half of 2023 at the Paint Street Landfill

Corrective Measures Progress Report - Corrective Measures Progress Report - WestRock, CP, LLC

Constituent (Units)	Side-gradient	Side-gradient	Side-gradient	Down-gradient	Side-gradient	Down-gradient	Down-gradient	Down-gradient
Well	P16-50	P17-50	P18-50	P19-50	P20-50	P21-47	P22-45	P23-40
Sampling Date	5/24/2023	5/24/2023	5/24/2023	5/25/2023	5/24/2023	5/25/2023	6/6/2023	6/7/2023
Alkalinity (mg/L)	360	390	410	340	410	540	530	990
Ammonia (ug/L)	33	64	37	340	81	270	530	3000
Arsenic (ug/L)	4	3	3	<2.0	<2.0	3	<2.0	36
Arsenic-Dissolved (ug/l)	<2.0	3	<2.0	<2.0	<2.0	2	<2.0	36
Barium (mg/L)	0.12	0.2	0.09	0.16	0.16	0.34	0.34	0.57
Calcium (mg/L)	110	110	120	97	120	140	130	130
COD (mg/L)	<30	<30	<30	<30	<30	<30	13	49
Chloride (mg/L)	19	19	37	42	45	48	43	41
Iron (mg/L)	2.3	2.4	2.5	5.9	3.6	14	11	16
Iron-Dissolved (mg/l)	1.2	2.2	1.1	6.1	3.2	13	11	15
Magnesium (mg/L)	38	40	35	20	36	35	36	68
Manganese (ug/L)	470	370	320	140	500	220	150	70
Manganese-Dissolved (ug/L)	450	360	290	140	500	210	150	70
Nitrate (ug/L)	<100.0	<100.0	<100.0	<140.0	<100.0	<140.0	<140.0	<140.0
Nitrite (mg/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Potassium (mg/L)	2.2	2.7	2.9	4.1	3.6	5	5.2	17
Sodium (mg/L)	7.6	5.7	23	37	29	49	46	130
Sulfate (mg/L)	57	60	68	50	78	17	18	0.7
Sulfide (ug/L)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
TDS (mg/L)	490	490	540	400	580	570	570	990
Turbidity (NTU)	7.7	<1.0	10.15	<1.0	2.6	16.63	2.25	6.88

Alternative Concentration Levels have been established for the following four (4) constituents for the Paint Street Landfill:

	Alternative Concentration Levels (mg/L)
Arsenic	0.010 (10 ug/L)
COD	60
Chloride	60
Sodium	222

n/a - not analyzed

Table 2

Statistical Analyses Summary for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Constituent	Statistical Analyses	Concentration Action Level (mg/l)	Well P9-45R	Well P11-52	Well P12-40	Well P12-30R	Well P13-42
Alkalinity	Sen's Slope	---	↗	↘	↗	↗	↗
Ammonia	Sen's Slope	---	↘	↘	↘	↘	↘
Arsenic	Tolerance Interval Sen's Slope	0.010 (10 ug/l)	→ 100% ND	→ 100% ND	↘ X:TI	↗ TI	↘ X:TI
Barium	Sen's Slope	---	↘	↘	↗	↗	↗
Calcium	Sen's Slope	---	↗	↘	↗	↗	→
Chloride	Tolerance Interval Sen's Slope	60	↗ TI	↘ TI	↗ TI	↗ TI	↗ X:TI
COD (Chemical Oxygen Demand)	Tolerance Interval Sen's Slope	60	↗ NPTI	↘ TI	↗ NPTI	↗ NPTI	↗ TI
Total Iron	Sen's Slope	---	→	↘	↗	↗	↗
Dissolved Iron	Sen's Slope	---	↗	↗	↗	↗	↗
Magnesium	Sen's Slope	---	↗	↘	↗	↗	↗
Manganese	Sen's Slope	---	↘	↘	↗	↘	→
Nitrate	Sen's Slope	---	→ 100% ND	→ 100% ND	→ 100% ND	→	→ 100% ND
Nitrite	Sen's Slope	---	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND
Potassium	Sen's Slope	---	↘	↘	↗	↗	↗
Sodium	Tolerance Interval Sen's Slope	222	↗ TI	↘ TI	↗ TI	↗ TI	↗ TI
Sulfate	Sen's Slope	---	↗	↗	↘	↘	↘
TDS (Total Dissolved Solids)	Sen's Slope	---	↗	↘	↗	↗	↗

X = Statistically Significant Result

n/a = not analyzed

TI = Parametric Tolerance Interval

NPTI = Nonparametric Tolerance Interval used when data are > 50% non-detects or data cannot be normalized.

100% ND = All results for the analysis period are less than the detection limit.

↗ = Sen's Slope trend analysis indicating a statistically significant increasing trend.

↘ = Sen's Slope trend analysis indicating a statistically significant decreasing trend

↗ = Sen's Slope trend analysis indicating an increasing but statistically insignificant trend.

↘ = Sen's Slope trend analysis indicating a decreasing but statistically insignificant trend.

→ = Sen's Slope trend analysis indicating zero slope.

Table 2 (continued)

Statistical Analyses Summary for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Constituent	Statistical Analyses	Concentration Action Level (mg/l)	Well P14-40		Well P15-35		Well P16-50		Well P17-50		Well P18-50 (OW-10R)	
Alkalinity	Sen's Slope	---	↘		↘		↗		↗		↘	
Ammonia	Sen's Slope	---	↘		↘		↘		↘		↘	
Arsenic	Tolerance Interval Sen's Slope	0.010 (10 ug/l)	↘	X:TI	→	NPTI	→	NPTI	↗	NPTI	→	NPTI
Barium	Sen's Slope	---	↘		↘		→		↗		→	
Calcium	Sen's Slope	---	→		↘		→		↗		↘	
Chloride	Tolerance Interval Sen's Slope	60	↘	TI	↘	X:TI	↗	NPTI	↗	TI	↗	NPTI
COD (Chemical Oxygen Demand)	Tolerance Interval Sen's Slope	60	↗	X:TI	↗	NPTI	↗	NPTI	↗	NPTI	↗	NPTI
Total Iron	Sen's Slope	---	↘		↘		↘		↗		↗	
Dissolved Iron	Sen's Slope	---	↘		↘		↘		↗		↘	
Magnesium	Sen's Slope	---	↘		↘		→		↗		↘	
Manganese	Sen's Slope	---	↗		↘		↗		↘		↘	
Nitrate	Sen's Slope	---	→	100% ND	→	100% ND	→	100% ND	→	100% ND	→	100% ND
Nitrite	Sen's Slope	---	→	100% ND	→	100% ND	→	100% ND	→	100% ND	→	100% ND
Potassium	Sen's Slope	---	↘		↗		↘		↗		↘	
Sodium	Tolerance Interval Sen's Slope	222	↘	TI	↗	TI	↗	TI	↗	TI	↘	TI
Sulfate	Sen's Slope	---	↘		↗		↘		↗		↗	
TDS (Total Dissolved Solids)	Sen's Slope	---	↘		↘		↗		↗		↘	

X = Statistically Significant Result

n/a = not analyzed

TI = Parametric Tolerance Interval

NPTI = Nonparametric Tolerance Interval used when data are > 50% non-detects or data cannot be normalized.

100% ND = All results for the analysis period are less than the detection limit.

↗ = Sen's Slope trend analysis indicating a statistically significant increasing trend.

↘ = Sen's Slope trend analysis indicating a statistically significant decreasing trend

↗ = Sen's Slope trend analysis indicating an increasing but statistically insignificant trend.

↘ = Sen's Slope trend analysis indicating a decreasing but statistically insignificant trend.

→ = Sen's Slope trend analysis indicating zero slope.

Table 2 (continued)

Statistical Analyses Summary for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Constituent	Statistical Analyses	Concentration Action Level (mg/l)	Well P19-50 (OW-11R)	Well P20-50	Well P21-47	Well P22-45	Well P23-40
Alkalinity	Sen's Slope	---	↗	↘	↗	↘	↗
Ammonia	Sen's Slope	---	↘	↘	↘	↘	↘
Arsenic	Tolerance Interval Sen's Slope	0.010 (10 ug/l)	→ 100% ND	→ NPTI	→ NPTI	→ 100% ND	↘ X:TI
Barium	Sen's Slope	---	↘	→	↘	→	↗
Calcium	Sen's Slope	---	↘	→	→	→	→
Chloride	Tolerance Interval Sen's Slope	60	↘ X:NPTI	↗ TI	↘ X:TI	↘ TI	↘ TI
COD (Chemical Oxygen Demand)	Tolerance Interval Sen's Slope	60	↗ TI	↗ NPTI	↗ TI	↗ TI	↗ X:TI
Total Iron	Sen's Slope	---	↘	↘	→	→	→
Dissolved Iron	Sen's Slope	---	↘	↘	→	→	→
Magnesium	Sen's Slope	---	↘	↘	→	↘	↗
Manganese	Sen's Slope	---	↘	↘	↘	→	→
Nitrate	Sen's Slope	---	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND
Nitrite	Sen's Slope	---	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND	→ 100% ND
Potassium	Sen's Slope	---	↘	↗	↘	↗	→
Sodium	Tolerance Interval Sen's Slope	222	↗ NPTI	→ NPTI	↗ TI	↗ TI	→ NPTI
Sulfate	Sen's Slope	---	↗	↗	↘	↘	→
TDS (Total Dissolved Solids)	Sen's Slope	---	↘	↗	↘	↘	↘

X = Statistically Significant Result

n/a = not analyzed

TI = Parametric Tolerance Interval

NPTI = Nonparametric Tolerance Interval used when data are > 50% non-detects or data cannot be normalized.

100% ND = All results for the analysis period are less than the detection limit.

↗ = Sen's Slope trend analysis indicating a statistically significant increasing trend.

↘ = Sen's Slope trend analysis indicating a statistically significant decreasing trend

↗ = Sen's Slope trend analysis indicating an increasing but statistically insignificant trend.

↘ = Sen's Slope trend analysis indicating a decreasing but statistically insignificant trend.

→ = Sen's Slope trend analysis indicating zero slope.

Table 3

Dissolved Iron Sen's Slope Analysis for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Well	Apparent Trend	Sen's Slope Value for Statistically Significant Trends (mg/l per year)	Trend Statistically Significant	Mann-Kendall Statistic	Mann-Kendall Critical Value	Number of Samples	Alpha
P9-45R	↗		No	3	17	8	0.05
P11-52	↗		No	6	17	8	0.05
P12-30R	↗		No	6	17	8	0.05
P12-40	↗		No	12	17	8	0.05
P13-42	↗		No	13	17	8	0.05
P14-40	↘		No	-13	-17	8	0.05
P15-35	↘		No	-10	-17	8	0.05
P16-50	↘		No	-4	-17	8	0.05
P17-50	↗		No	5	17	8	0.05
P18-50 (OW-10R)	↘		No	-11	-17	8	0.05
P19-50 (OW-11R)	↘		No	-4	-17	8	0.05
P20-50	↘		No	-10	-17	8	0.05
P21-47	→		No	-5	-17	8	0.05
P22-45	→		No	1	17	8	0.05
P23-40	→		No	0	17	8	0.05

↗ = Sen's Slope trend analysis indicating a statistically significant increasing trend.

↘ = Sen's Slope trend analysis indicating a statistically significant decreasing trend

↗ = Sen's Slope trend analysis indicating an increasing but statistically insignificant trend.

↘ = Sen's Slope trend analysis indicating a decreasing but statistically insignificant trend.

→ = Sen's Slope trend analysis indicating zero slope.

100% ND = All results for the analysis period are less than the detection limit.

Table 4

Total Arsenic Sen's Slope Analysis for the 1st Half of 2023 at the Paint Street Landfill
Corrective Measures Progress Report - WestRock, CP, LLC

Well	Apparent Trend	Sen's Slope Value for Statistically Significant Trends (ug/l per year)	Trend Statistically Significant	Mann-Kendall Statistic	Mann-Kendall Critical Value	Number of Samples	Alpha
P9-45R	100% ND		No	0	17	8	0.05
P11-52	100% ND		No	0	17	8	0.05
P12-30R	↗		No	7	17	8	0.05
P12-40	↘		No	-2	17	8	0.05
P13-42	↘		No	-1	-17	8	0.05
P14-40	↘		No	-13	-17	8	0.05
P15-35	→		No	4	17	8	0.05
P16-50	→		No	-4	-17	8	0.05
P17-50	↗		No	15	17	8	0.05
P18-50 (OW-10R)	→		No	10	17	8	0.05
P19-50 (OW-11R)	100% ND		No	0	17	8	0.05
P20-50	→		No	0	17	8	0.05
P21-47	→		No	3	17	8	0.05
P22-45	100% ND		No	0	17	8	0.05
P23-40	↘	-1.14	Yes	-19	-17	8	0.05

↗ = Sen's Slope trend analysis indicating a statistically significant increasing trend.

↘ = Sen's Slope trend analysis indicating a statistically significant decreasing trend

↗ = Sen's Slope trend analysis indicating an increasing but statistically insignificant trend.

↘ = Sen's Slope trend analysis indicating a decreasing but statistically insignificant trend.

→ = Sen's Slope trend analysis indicating zero slope.

100% ND = All results for the analysis period are less than the detection limit.

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Corrective Measures Progress Report
Paint Street Landfill

Figures

Legend

- Active Groundwater Quality Monitoring Well
- Active Water Level Observation Well
- Extraction Well
- Approximate Boundary of Paint Street Landfill

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Well locations taken from "Well Location Map", prepared by Layne, dated 12/30/2020.

550 0 550
SCALE IN FEET

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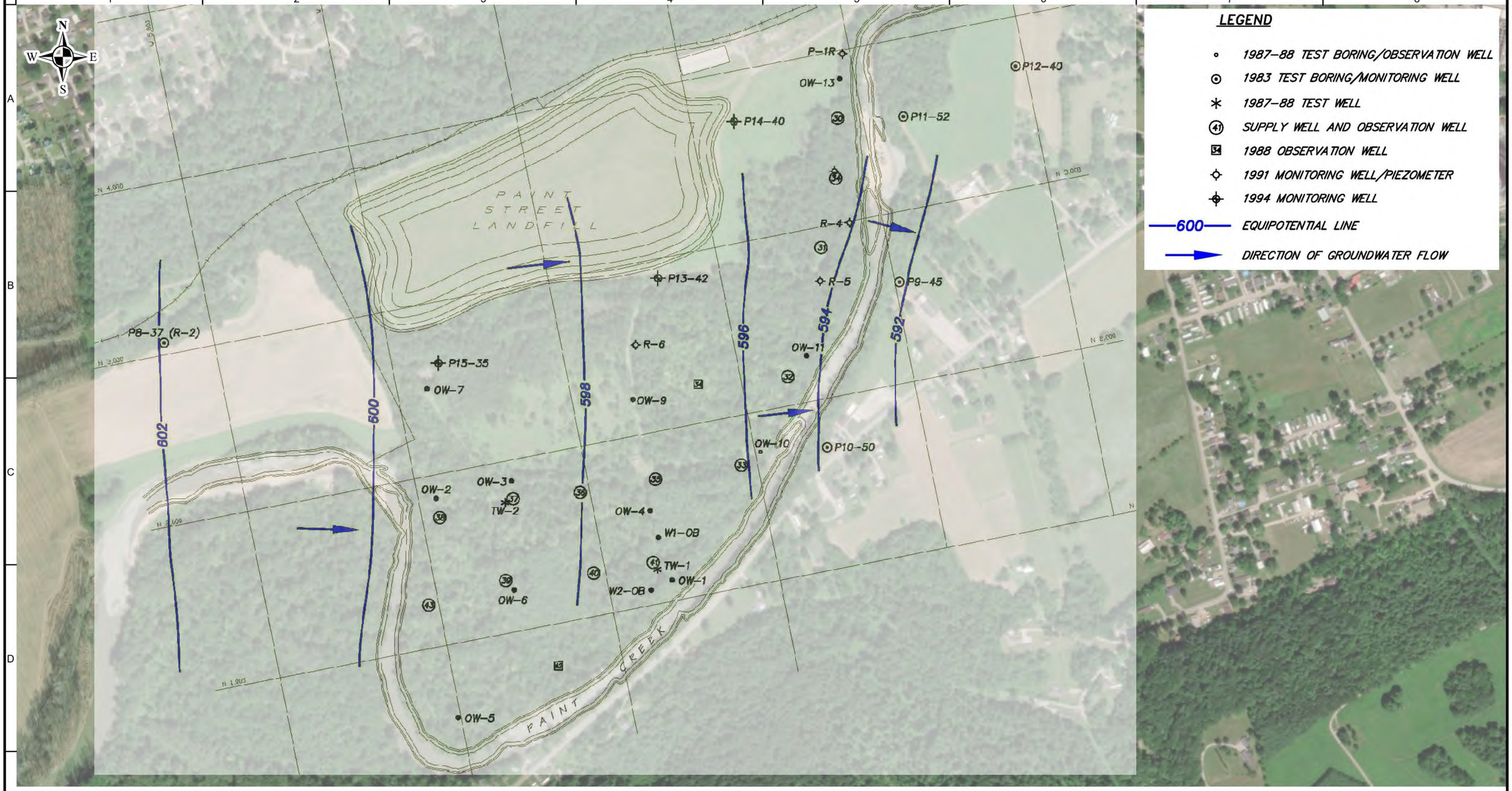
Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
WELL LOCATION MAP

Project No. 610041501	Figure No. 1
Date 9/13/2023	
Scale 1"=550'	
Drawn By PDT	

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/13/2023 User: pditillio Time: 3:42 PM



Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Basemap from "Groundwater Elevation and Flow Measured in November 1988", prepared by Layne, dated 09/04/2019.

550 0 550
SCALE IN FEET

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Project
PAINT STREET LANDFILL SITE
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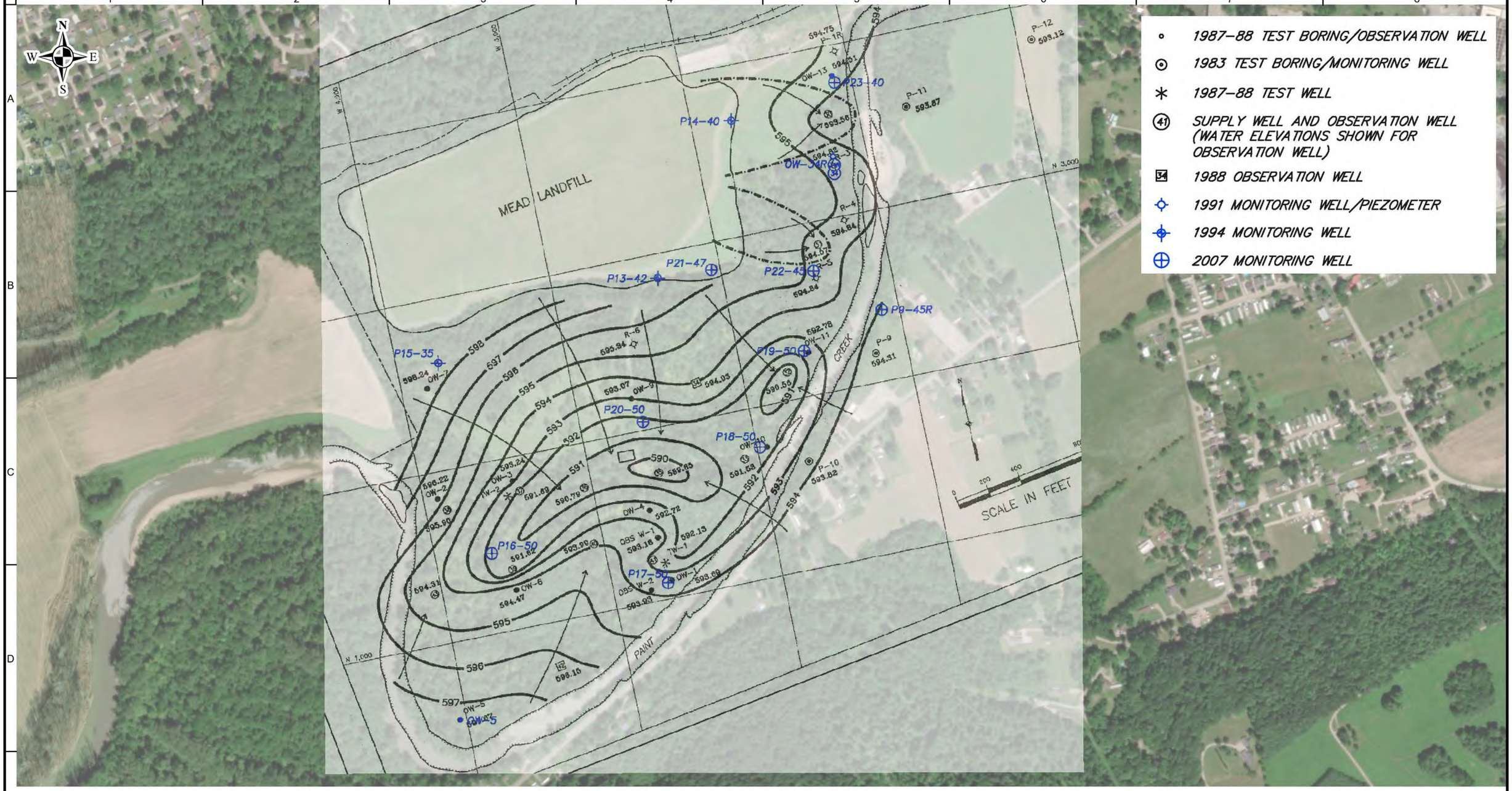
ROSS COUNTY OHIO

Figure Title
GROUNDWATER ELEVATION AND FLOW: NOVEMBER 1988

Project No. 610041501	Figure No. 2
Date 9/12/2023	
Scale 1"=550'	
Drawn By MG	

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/12/2023 User: pditillio Time: 5:26 PM



Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Basemap from "Groundwater Potentiometric Surface Map at the Pain Street Landfill Based on data Collected August 18, 1994", prepared by Layne, dated 02/16/2017.

550 0 550
SCALE IN FEET

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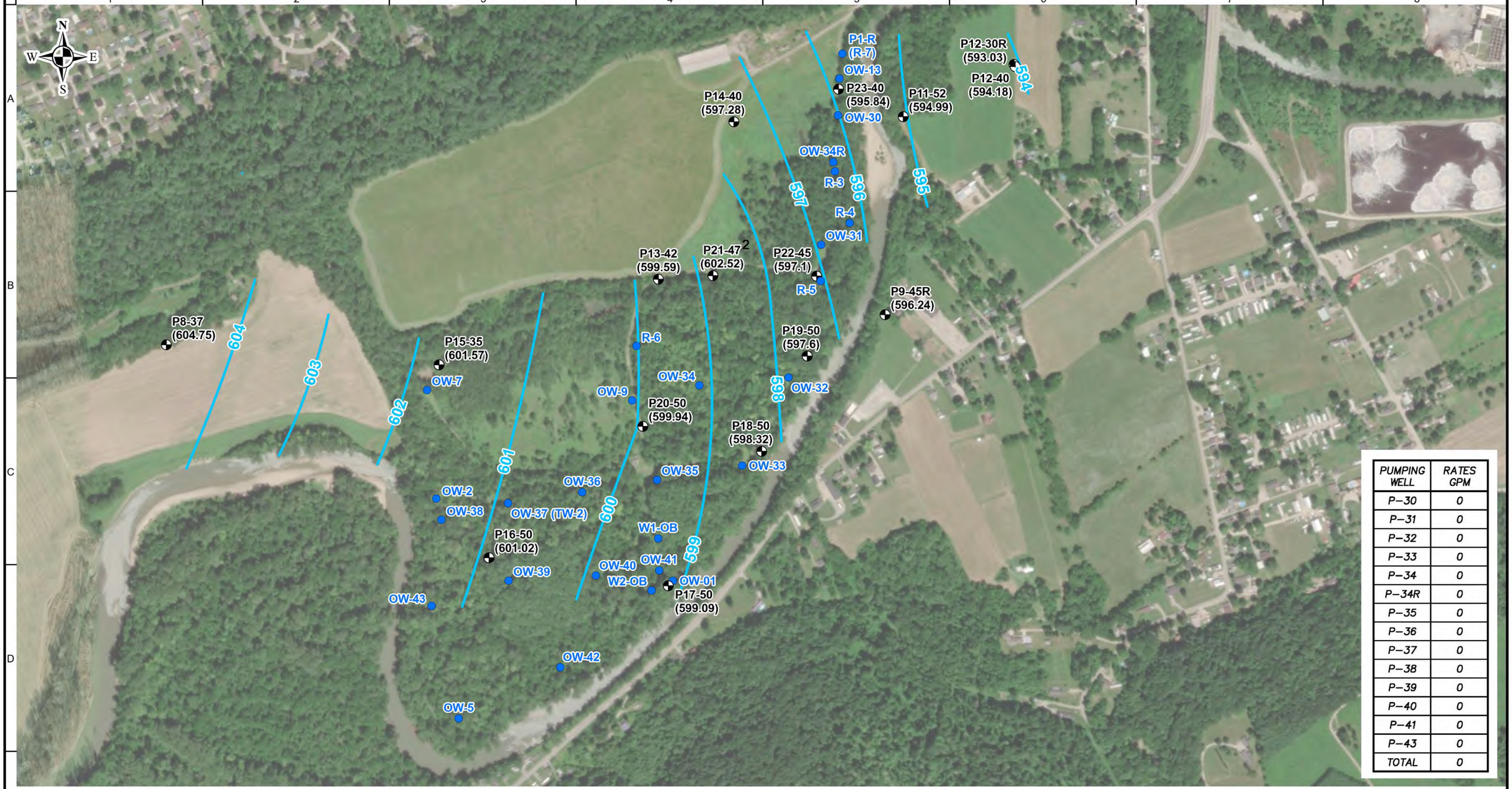
Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
GROUNDWATER ELEVATION AND FLOW: AUGUST 1994

Project No. 610041501	Figure No. 3
Date 9/12/2023	
Scale 1"=550'	
Drawn By MG	

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/12/2023 User: pditillio Time: 5:25 PM



PUMPING WELL	RATES GPM
P-30	0
P-31	0
P-32	0
P-33	0
P-34	0
P-34R	0
P-35	0
P-36	0
P-37	0
P-38	0
P-39	0
P-40	0
P-41	0
P-43	0
TOTAL	0

Legend

- Active Groundwater Quality Monitoring Well
- Active Water Level Observation Well
- Water Level Contour

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. Well P21-47 elevation is not included in in the surface evaluation as levels are anomalous compared to last 4 years of monitoring.

550 0 550
SCALE IN FEET

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Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
GROUNDWATER ELEVATION AND FLOW: JUNE 2023

Project No. 610041501
Date 9/13/2023
Scale 1"=550'
Drawn By PDT
Figure No. 4

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/13/2023 User: pditillio Time: 3:27 PM

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.

550 0 550
SCALE IN FEET

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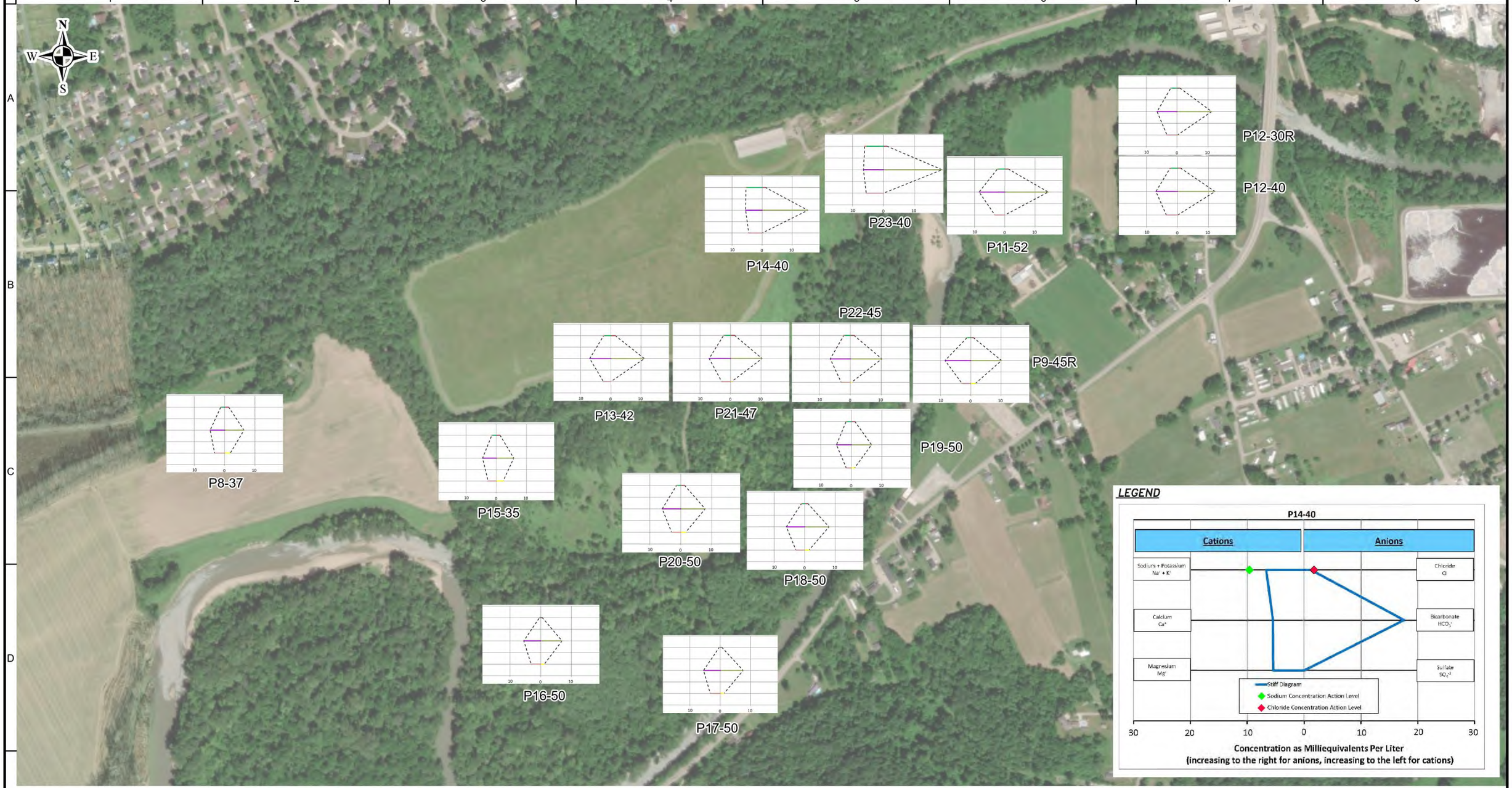
Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
GROUNDWATER ELEVATION AND FLOW:

Project No.	610041501
Date	9/12/2023
Scale	1"=550'
Drawn By	PDT
Figure No.	5

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/12/2023 User: pditillio Time: 3:25 PM



Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.

550 0 550
SCALE IN FEET

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Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
STIFF DIAGRAMS 1ST HALF 2023 WATER QUALITY DATA

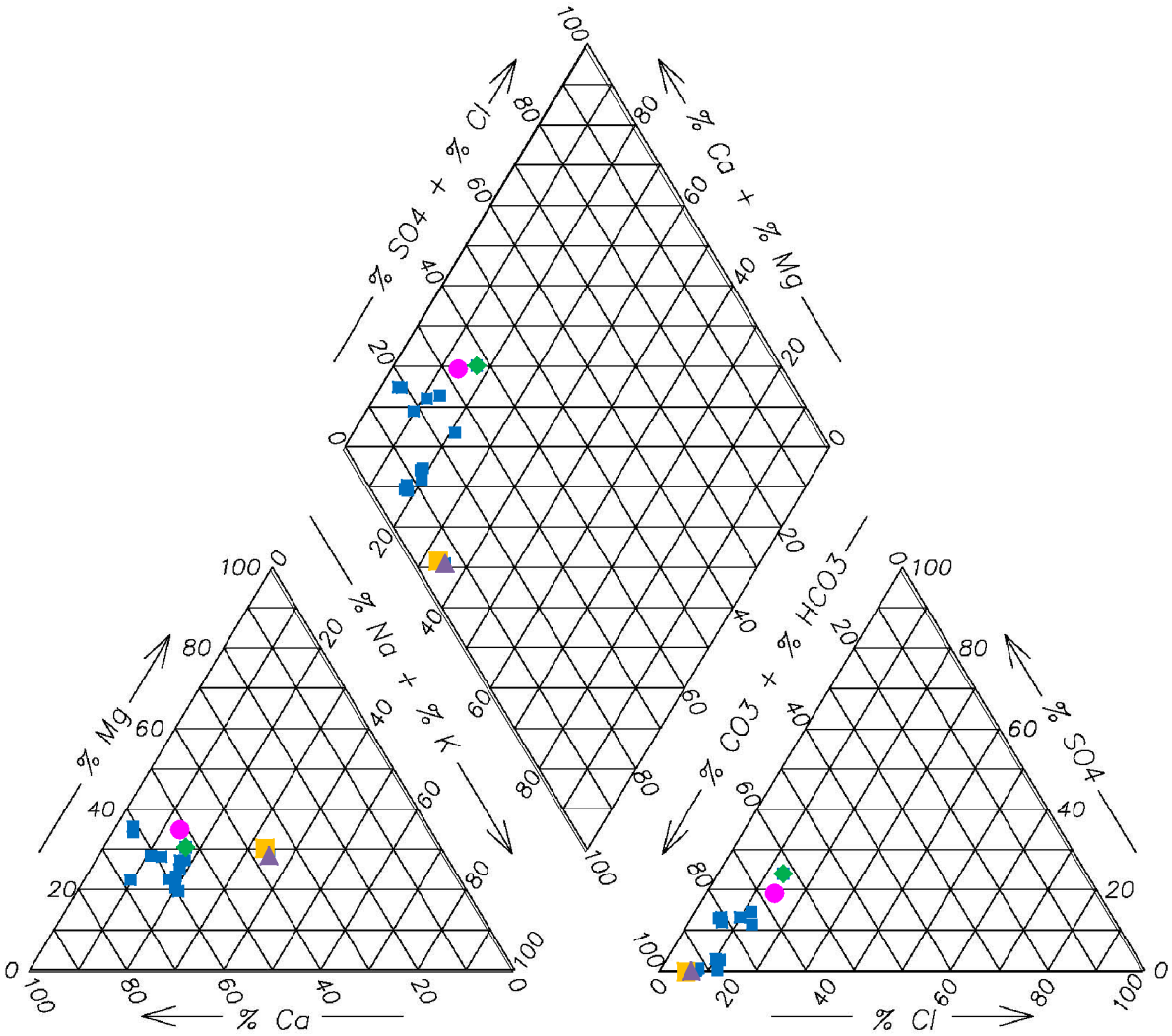
Project No. 610041501	Figure No. 6
Date 9/12/2023	
Scale 1"=550'	
Drawn By PDT	

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/12/2023 User: pditillio Time: 3:59 PM

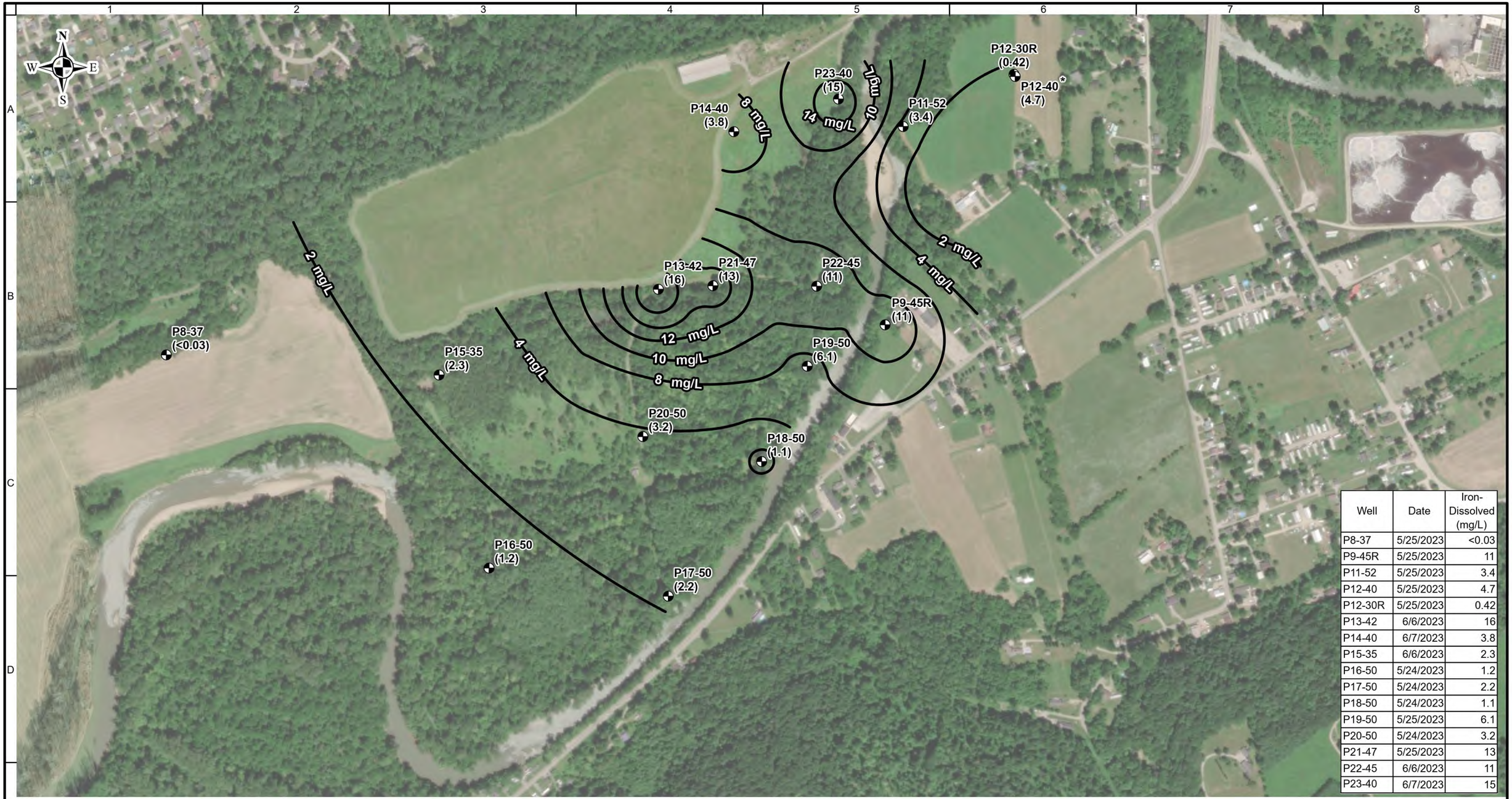
FIGURE 7

Piper Diagram - 1st Half 2023

Paint Street Landfill - WestRock



- Individual well samples from the Paint Street Landfill
- Well P8-37 sample (Upgradient of Paint Street Landfill)
- Well P14-40 Sample
- Well P15-35 Sample
- Well P23-40 Sample



Well	Date	Iron-Dissolved (mg/L)
P8-37	5/25/2023	<0.03
P9-45R	5/25/2023	11
P11-52	5/25/2023	3.4
P12-40	5/25/2023	4.7
P12-30R	5/25/2023	0.42
P13-42	6/6/2023	16
P14-40	6/7/2023	3.8
P15-35	6/6/2023	2.3
P16-50	5/24/2023	1.2
P17-50	5/24/2023	2.2
P18-50	5/24/2023	1.1
P19-50	5/25/2023	6.1
P20-50	5/24/2023	3.2
P21-47	5/25/2023	13
P22-45	6/6/2023	11
P23-40	6/7/2023	15

Legend

- Active Groundwater Quality Monitoring Well
- Dissolved Iron Isoconcentration Line

550 0 550
SCALE IN FEET

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. (6.1) Dissolved Iron concentration Milligrams per Liter (mg/L).
3. *P12-40 value was not used to generate contour.

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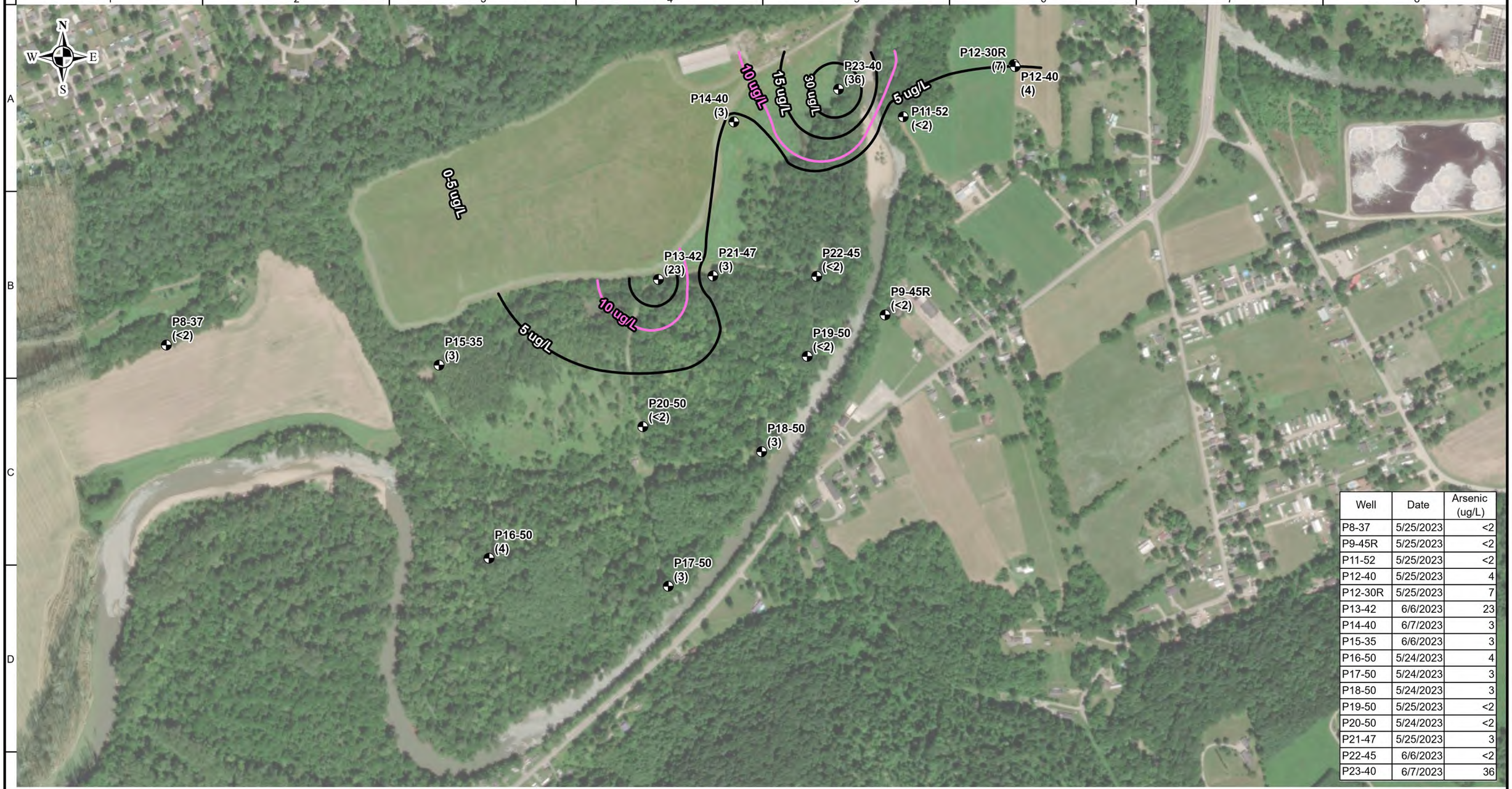
Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
DISSOLVED IRON ISOCONCENTRATION MAP - 1ST HALF 2023

Project No. 610041501
Date 9/14/2023
Scale 1"=550'
Drawn By PDT
Figure No. 8

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/14/2023 User: pditillio Time: 1:39 PM



Well	Date	Arsenic (ug/L)
P8-37	5/25/2023	<2
P9-45R	5/25/2023	<2
P11-52	5/25/2023	<2
P12-40	5/25/2023	4
P12-30R	5/25/2023	7
P13-42	6/6/2023	23
P14-40	6/7/2023	3
P15-35	6/6/2023	3
P16-50	5/24/2023	4
P17-50	5/24/2023	3
P18-50	5/24/2023	3
P19-50	5/25/2023	<2
P20-50	5/24/2023	<2
P21-47	5/25/2023	3
P22-45	6/6/2023	<2
P23-40	6/7/2023	36

Legend

- Active Groundwater Quality Monitoring Well
- Total Arsenic Isoconcentration Line
- Total Arsenic Concentration Action Level Line

550 0 550
SCALE IN FEET

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. (<2) Total Arsenic concentration Micrograms per Liter (ug/L).

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Project
PAINT STREET LANDFILL SITE
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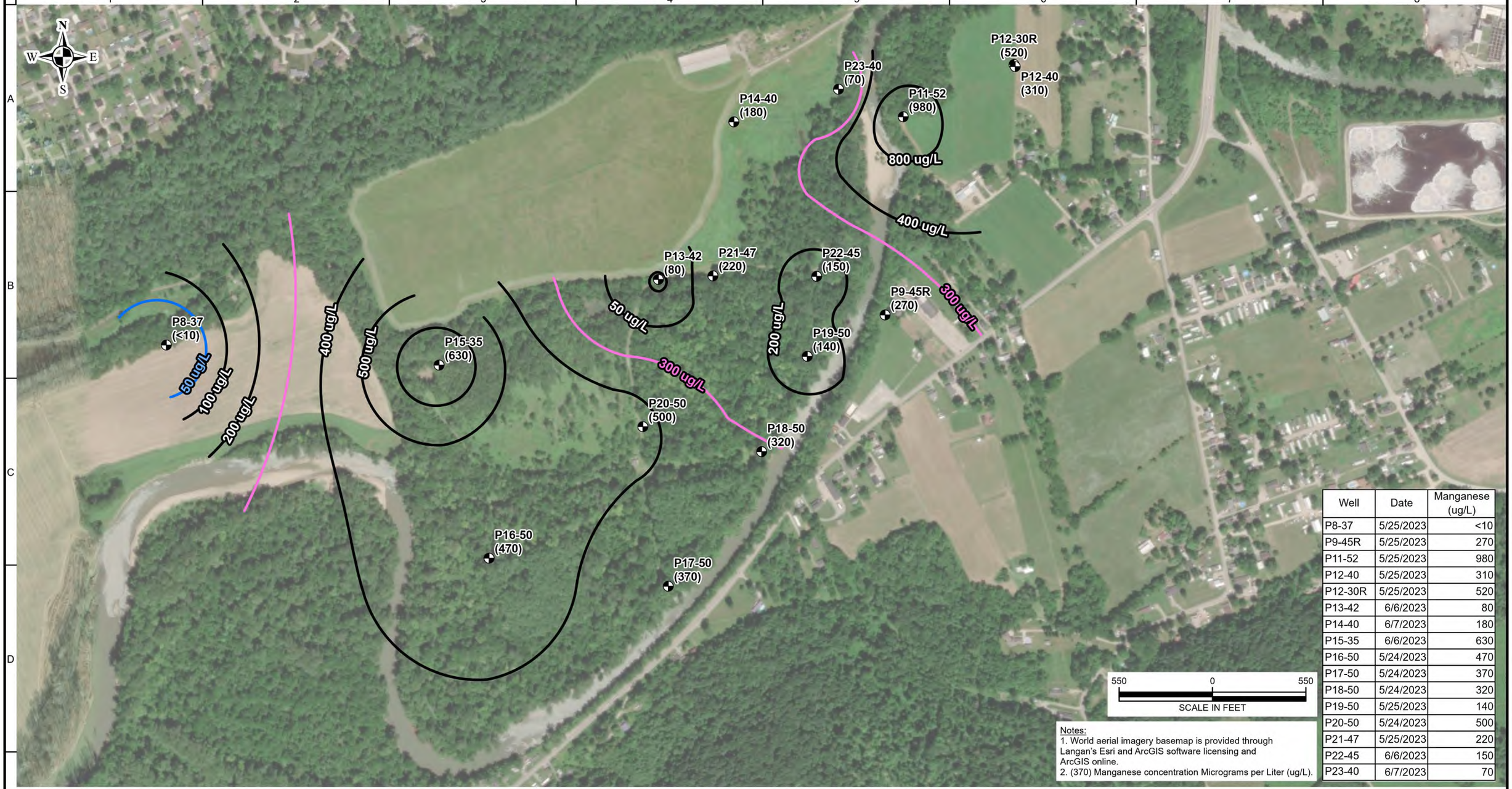
Figure Title
TOTAL ARSENIC ISOCONCENTRATION MAP - 1ST HALF 2023

Project No. 610041501
Date 9/14/2023
Scale 1"=550'
Drawn By PDT
Figure No. 9

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/14/2023 User: pditillio Time: 1:42 PM



Well	Date	Manganese (ug/L)
P8-37	5/25/2023	<10
P9-45R	5/25/2023	270
P11-52	5/25/2023	980
P12-40	5/25/2023	310
P12-30R	5/25/2023	520
P13-42	6/6/2023	80
P14-40	6/7/2023	180
P15-35	6/6/2023	630
P16-50	5/24/2023	470
P17-50	5/24/2023	370
P18-50	5/24/2023	320
P19-50	5/25/2023	140
P20-50	5/24/2023	500
P21-47	5/25/2023	220
P22-45	6/6/2023	150
P23-40	6/7/2023	70

Notes:
1. World aerial imagery basemap is provided through Langan's Esri and ArcGIS software licensing and ArcGIS online.
2. (370) Manganese concentration Micrograms per Liter (ug/L).

Legend

- Active Groundwater Quality Monitoring Well
- Manganese Isoconcentration Line
- Manganese Secondary Maximum Contaminant Level (SMCL) 50ug/L Isoconcentration Line
- Manganese Health Advisory Level (HAL) 300 ug/L Isoconcentration Line

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Project
PAINT STREET LANDFILL SITE
CHILLICOTHE
ROSS COUNTY OHIO

Figure Title
TOTAL MANGANESE ISOCONCENTRATION MAP - 1ST HALF 2023

Project No. 610041501
Date 9/14/2023
Scale 1"=550'
Drawn By PDT
Figure No. 10

Path: \\langan.com\data\NYC\other\GIS\Projects\PHX\610041501\610041501.aprx Date: 9/14/2023 User: pditillio Time: 4:00 PM

1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

Appendix A Water Quality Lab Reports

WestRock

Analytical Services Laboratory

ANALYTICAL REPORT

Lab Project:	**2023-05-25-001**
Location:	**Chillicothe**
Project Contact:	**Steve Hamilton**
Date Received:	**05/25/2023**

Samples were received at the Miamisburg, Ohio laboratory for the analysis presented in the following report.

This report consists of:

1. **Report Narrative**
2. **Analytical Results**
3. **Chain of Custody Sheet and Cooler Receipt form Acknowledging receipt of sample(s).**

Please contact the laboratory for information regarding certifications related to environmental, and product safety fields of testing and the related scopes of accreditation.

The WestRock Analytical Services Laboratory certifies that the analytical results contained in this report apply only to the sample analyzed. Reproduction of this report is permitted only in its entirety.

This report is confidential and is intended for the person to whom it is addressed. If this report is received in error, please contact the number above.

Dan D. Everett, Manager Laboratory Services

REPORT NARRATIVE

FOR REPORT: 2023-05-25-001 Rev-001

This report contains analytical results for the following samples:

SAMPLE #	COLLECTION DATE	SAMPLE DESCRIPTION
BA01686	05/24/2023	P-BLANK
BA01687	05/24/2023	P16-50
BA01688	05/24/2023	P17-50
BA01689	05/24/2023	P20-50
BA01690	05/24/2023	P18-50 (OW10R)
BA01691	05/24/2023	P16-50 - Dissolved
BA01692	05/24/2023	P17-50 - Dissolved
BA01693	05/24/2023	P20-50 - Dissolved
BA01694	05/24/2023	P18-50 (OW10R) - Dissolved
BA01695	05/25/2023	P8-37
BA01696	05/25/2023	P8-37 Duplicate
BA01697	05/25/2023	P19-50 (OW11R)
BA01698	05/25/2023	P12-30R
BA01699	05/25/2023	P12-40
BA01700	05/25/2023	P11-52
BA01701	05/25/2023	P9-45R
BA01702	05/25/2023	P21-47
BA01703	05/25/2023	P8-37 Dissolved
BA01704	05/25/2023	P8-37 Duplicate Dissolved
BA01705	05/25/2023	P19-50 (OW11R) Dissolved
BA01706	05/25/2023	P12-30R Dissolved
BA01707	05/25/2023	P12-40 Dissolved
BA01708	05/25/2023	P11-52 Dissolved
BA01709	05/25/2023	P9-45R Dissolved
BA01710	05/25/2023	P21-47 Dissolved
BA01779	06/06/2023	P-BLANK
BA01780	06/06/2023	P15-35
BA01781	06/06/2023	P13-42
BA01782	06/06/2023	P22-45
BA01783	06/06/2023	P15-35 - Dissolved
BA01784	06/06/2023	P13-42 - Dissolved
BA01785	06/06/2023	P22-45 - Dissolved
BA01802	06/07/2023	P14-40
BA01803	06/07/2023	P14-40 Duplicate
BA01804	06/07/2023	P23-40
BA01805	06/07/2023	P14-40 Dissolved
BA01806	06/07/2023	P14-40 Duplicate Dissolved
BA01807	06/07/2023	P23-40 Dissolved

Any deficiencies noted with sample acceptance or analytical procedures are documented. Unless otherwise noted, all quality control procedures associated with these samples were within laboratory or method specified limits.

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P-BLANK

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01686 **Collection Date / Time :** 05/24/2023 13:55

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	Less than	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	Less than	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	Less than	0.03	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	Less than	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	Less than	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	Less than	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	Less than	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	6.0	4.0	mg/L	SM 2320B	6/1/23	CL	CL-ALS
Chloride	Less than	0.5	mg/L	EPA 300.0	5/25/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	1.8	1	umhos/cm	Field	5/24/23	GAM	
Dissolved Oxygen	5.64	0.1	mg/L	Field	5/24/23	GAM	
EH (Oxidation Reduction Potential)	302.0		mV	Field	5/24/23	GAM	
Nitrogen, Ammonia (NH3 as N)	Less than	0.020	mg/L	EPA 350.1	6/2/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.10	mg/L	EPA 300.0	5/25/23	CWD	QD
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/31/23	CWD	AC
pH, Field	7.70	N/A	S.U.	Field	5/24/23	GAM	
Solids, Dissolved	Less than	20	mg/L	SM 2540C	5/31/23	CL	CL-ALS
Sulfate	Less than	0.5	mg/L	EPA 300.0	5/25/23	CWD	
Temperature	21.7	0.1	C	Field	5/24/23	GAM	
Turbidity	Less than	1	NTU	Field	5/24/23	GAM	
Depth to Water	N/A	N/A	Feet	Field	5/24/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P16-50

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01687 **Collection Date / Time :** 05/24/2023 14:19

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.004	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.12	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	110	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	2.3	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	38	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.47	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	2.2	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	7.6	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	360	4.0	mg/L	SM 2320B	6/1/23	CL	CL-ALS
Chloride	19	0.5	mg/L	EPA 300.0	5/25/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	589	1	umhos/cm	Field	5/24/23	GAM	
Dissolved Oxygen	0.74	0.1	mg/L	Field	5/24/23	GAM	
EH (Oxidation Reduction Potential)	356.1		mV	Field	5/24/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.033	0.020	mg/L	EPA 350.1	6/2/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.10	mg/L	EPA 300.0	5/25/23	CWD	QD
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/31/23	CWD	AC
pH, Field	7.13	N/A	S.U.	Field	5/24/23	GAM	
Solids, Dissolved	490	20	mg/L	SM 2540C	5/31/23	CL	CL-ALS
Sulfate	57	2.0	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	13.8	0.1	C	Field	5/24/23	GAM	
Turbidity	7.70	1	NTU	Field	5/24/23	GAM	
Depth to Water	18.30	N/A	Feet	Field	5/24/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P17-50

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01688 **Collection Date / Time :** 05/24/2023 15:13

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.003	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.20	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	110	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	2.4	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	40	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.37	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	2.7	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	5.7	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	390	4.0	mg/L	SM 2320B	6/1/23	CL	CL-ALS
Chloride	19	0.5	mg/L	EPA 300.0	5/25/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	589	1	umhos/cm	Field	5/24/23	GAM	
Dissolved Oxygen	0.49	0.1	mg/L	Field	5/24/23	GAM	
EH (Oxidation Reduction Potential)	310.8		mV	Field	5/24/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.064	0.020	mg/L	EPA 350.1	6/2/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.10	mg/L	EPA 300.0	5/25/23	CWD	QD
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/31/23	CWD	AC
pH, Field	7.16	N/A	S.U.	Field	5/24/23	GAM	
Solids, Dissolved	490	20	mg/L	SM 2540C	5/31/23	CL	CL-ALS
Sulfate	60	2.0	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	13.0	0.1	C	Field	5/24/23	GAM	
Turbidity	Less than	1	NTU	Field	5/24/23	GAM	
Depth to Water	17.66	N/A	Feet	Field	5/24/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P20-50

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01689 **Collection Date / Time :** 05/24/2023 16:09

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.16	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	120	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	3.6	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	36	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.50	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	3.6	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	29	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	410	4.0	mg/L	SM 2320B	6/1/23	CL	CL-ALS
Chloride	45	1.5	mg/L	EPA 300.0	5/26/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	737	1	umhos/cm	Field	5/24/23	GAM	
Dissolved Oxygen	0.44	0.1	mg/L	Field	5/24/23	GAM	
EH (Oxidation Reduction Potential)	282.4		mV	Field	5/24/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.081	0.020	mg/L	EPA 350.1	6/2/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.10	mg/L	EPA 300.0	5/25/23	CWD	QD
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/31/23	CWD	AC
pH, Field	6.94	N/A	S.U.	Field	5/24/23	GAM	
Solids, Dissolved	580	20	mg/L	SM 2540C	5/31/23	CL	CL-ALS
Sulfate	78	2.0	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	13.9	0.1	C	Field	5/24/23	GAM	
Turbidity	2.60	1	NTU	Field	5/24/23	GAM	
Depth to Water	19.05	N/A	Feet	Field	5/24/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P18-50 (OW10R)

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01690 **Collection Date / Time :** 05/24/2023 17:00

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.003	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.09	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	120	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	2.5	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	35	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.32	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	2.9	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	23	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	410	4.0	mg/L	SM 2320B	6/1/23	CL	CL-ALS
Chloride	37	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	673	1	umhos/cm	Field	5/24/23	GAM	
Dissolved Oxygen	0.82	0.1	mg/L	Field	5/24/23	GAM	
EH (Oxidation Reduction Potential)	276.4		mV	Field	5/24/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.037	0.020	mg/L	EPA 350.1	6/2/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.10	mg/L	EPA 300.0	5/25/23	CWD	QD
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/31/23	CWD	AC
pH, Field	7.02	N/A	S.U.	Field	5/24/23	GAM	
Solids, Dissolved	540	20	mg/L	SM 2540C	5/31/23	CL	CL-ALS
Sulfate	68	2.0	mg/L	EPA 300.0	5/27/23	CWD	
Temperature	12.7	0.1	C	Field	5/24/23	GAM	
Turbidity	10.15	1	NTU	Field	5/24/23	GAM	
Depth to Water	19.43	N/A	Feet	Field	5/24/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P16-50 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01691 **Collection Date / Time :** 05/24/2023 14:19

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	1.2	0.03	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.45	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/24/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P17-50 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01692 **Collection Date / Time :** 05/24/2023 15:13

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.003	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	2.2	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.36	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/24/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P20-50 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01693 **Collection Date / Time :** 05/24/2023 16:09

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	3.2	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.50	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/24/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P18-50 (OW10R) - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01694 **Collection Date / Time :** 05/24/2023 17:00

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	1.1	0.03	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.29	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/24/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P8-37

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01695 **Collection Date / Time :** 05/25/2023 09:01

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.09	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	95	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	Less than	0.03	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	40	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	Less than	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	2.1	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	28	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	330	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	49	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	614	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	2.37	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	389.5		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.029	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	0.46	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	7.18	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	550	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	91	2.0	mg/L	EPA 300.0	5/27/23	CWD	
Temperature	12.0	0.1	C	Field	5/25/23	GAM	
Turbidity	Less than	1	NTU	Field	5/25/23	GAM	
Depth to Water	15.80	N/A	Feet	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P8-37 Duplicate

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01696 **Collection Date / Time :** 05/25/2023 09:01

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.09	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	94	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	Less than	0.03	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	39	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	Less than	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	2	1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	27	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	330	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	49	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	614	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	2.37	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	389.5		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.098	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	0.46	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	7.18	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	500	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	92	2.0	mg/L	EPA 300.0	5/27/23	CWD	
Temperature	12.0	0.1	C	Field	5/25/23	GAM	
Turbidity	Less than	1	NTU	Field	5/25/23	GAM	
Depth to Water	15.80	N/A	Feet	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P19-50 (OW11R)

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01697 **Collection Date / Time :** 05/25/2023 10:12

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.16	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	97	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	5.9	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	20	0.5	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.14	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	4.1	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	37	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	340	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	42	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	562	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	0.29	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	278.1		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.34	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	7.17	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	400	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	50	2.0	mg/L	EPA 300.0	5/27/23	CWD	
Temperature	11.6	0.1	C	Field	5/25/23	GAM	
Turbidity	Less than	1	NTU	Field	5/25/23	GAM	
Depth to Water	19.27	N/A	Feet	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P12-30R

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01698 **Collection Date / Time :** 05/25/2023 11:19

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.007	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.31	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	130	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	3.8	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	40	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.52	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	7.7	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	43	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	580	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	34	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	863	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	0.87	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	266.7		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	Less than	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	6.82	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	610	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	5.6	0.5	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	16.7	0.1	C	Field	5/25/23	GAM	
Turbidity	34.35	1	NTU	Field	5/25/23	GAM	
Depth to Water	20.62	N/A	Feet	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P12-40

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01699 **Collection Date / Time :** 05/25/2023 12:15

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.004	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.41	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	140	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	6.2	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	44	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.31	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	8.0	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	50	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	630	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	36	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	875	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	0.31	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	356.2		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.16	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	5.53	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	490	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	3.5	0.5	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	14.8	0.1	C	Field	5/25/23	GAM	
Turbidity	23.81	1	NTU	Field	5/25/23	GAM	
Depth to Water	20.0	N/A	Feet	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P11-52

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01700 **Collection Date / Time :** 05/25/2023 13:24

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.42	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	170	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	20	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	40	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.98	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	8.0	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	53	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	750	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	42	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	969	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	11.15	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	245.4		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.64	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	5.86	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	690	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	1.7	0.5	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	13.1	0.1	C	Field	5/25/23	GAM	
Turbidity	40.85	1	NTU	Field	5/25/23	GAM	
Depth to Water	23.14	N/A	Feet	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P9-45R

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01701 **Collection Date / Time :** 05/25/2023 14:26

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.23	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	170	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	12	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	35	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.27	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	3.2	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	26	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	530	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	31	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	797	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	0.43	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	169.9		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.15	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	6.90	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	610	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	75	2.0	mg/L	EPA 300.0	5/27/23	CWD	
Temperature	12.3	0.1	C	Field	5/25/23	GAM	
Turbidity	13.73	1	NTU	Field	5/25/23	GAM	
Depth to Water	22.42	N/A	Feet	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P21-47

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01702 **Collection Date / Time :** 05/25/2023 15:20

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.003	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.34	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	140	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	14	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	35	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.22	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	5.0	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	49	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	540	4.0	mg/L	SM 2320B	6/2/23	CL	CL-ALS
Chloride	48	1.5	mg/L	EPA 300.0	5/27/23	CWD	
COD	Less than	30	mg/L	EPA 410.4	5/31/23	CL	CL-ALS
Conductivity	823	1	umhos/cm	Field	5/25/23	GAM	
Dissolved Oxygen	0.39	0.1	mg/L	Field	5/25/23	GAM	
EH (Oxidation Reduction Potential)	163.0		mV	Field	5/25/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.27	0.020	mg/L	EPA 350.1	5/31/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	5/26/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	5/26/23	CWD	
pH, Field	6.82	N/A	S.U.	Field	5/25/23	GAM	
Solids, Dissolved	570	20	mg/L	SM 2540C	6/2/23	CL	CL-ALS
Sulfate	17	0.5	mg/L	EPA 300.0	5/26/23	CWD	
Temperature	13.1	0.1	C	Field	5/25/23	GAM	
Turbidity	16.63	1	NTU	Field	5/25/23	GAM	
Depth to Water	22.34	N/A	Feet	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P8-37 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01703 **Collection Date / Time :** 05/25/2023 09:08

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	Less than	0.03	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	Less than	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P8-37 Duplicate Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01704 **Collection Date / Time :** 05/25/2023 09:08

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	Less than	0.03	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	Less than	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P19-50 (OW11R) Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01705 **Collection Date / Time :** 05/25/2023 10:18

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	6.1	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.14	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P12-30R Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01706 **Collection Date / Time :** 05/25/2023 11:27

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	0.42	0.03	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.46	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P12-40 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01707 **Collection Date / Time :** 05/25/2023 12:20

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.003	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	4.7	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.33	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P11-52 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01708 **Collection Date / Time :** 05/25/2023 13:24

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	3.4	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.98	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/26/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P9-45R Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01709 **Collection Date / Time :** 05/25/2023 14:34

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	11	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.27	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P21-47 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01710 **Collection Date / Time :** 05/25/2023 15:27

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.002	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	13	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.21	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	5/25/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P-BLANK

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01779 **Collection Date / Time :** 06/06/2023 10:07

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	Less than	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	Less than	0.5	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	Less than	0.03	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	Less than	0.5	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	Less than	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	Less than	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	Less than	0.5	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	Less than	4.0	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	Less than	0.5	mg/L	EPA 300.0	6/7/23	CWD	
COD	13	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	1.5	1	umhos/cm	Field	6/6/23	GAM	
Dissolved Oxygen	5.41	0.1	mg/L	Field	6/6/23	GAM	
EH (Oxidation Reduction Potential)	286.9		mV	Field	6/6/23	GAM	
Nitrogen, Ammonia (NH3 as N)	Less than	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/7/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/7/23	CWD	
pH, Field	8.14		S.U.	Field	6/6/23	GAM	
Solids, Dissolved	Less than	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	Less than	0.5	mg/L	EPA 300.0	6/7/23	CWD	
Temperature	20.1	0.1	C	Field	6/6/23	GAM	
Turbidity	Less than	1	NTU	Field	6/6/23	GAM	
Depth to Water	N/A	N/A	Feet	Field	6/6/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P15-35

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01780 **Collection Date / Time :** 06/06/2023 10:48

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.003	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	0.10	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	91	2	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	3.2	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	33	1	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	0.63	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	3.6	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	32	2	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	300	4.0	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	45	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	18	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	603	1	umhos/cm	Field	6/6/23	GAM	
Dissolved Oxygen	0.42	0.1	mg/L	Field	6/6/23	GAM	
EH (Oxidation Reduction Potential)	277..0		mV	Field	6/6/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.35	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/7/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/7/23	CWD	
pH, Field	7.37	N/A	S.U.	Field	6/6/23	GAM	
Solids, Dissolved	520	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	110	2.0	mg/L	EPA 300.0	6/8/23	CWD	
Temperature	12.6	0.1	C	Field	6/6/23	GAM	
Turbidity	20.47	1	NTU	Field	6/6/23	GAM	
Depth to Water	9.70	N/A	Feet	Field	6/6/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P13-42

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01781 **Collection Date / Time :** 06/06/2023 11:52

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.023	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	0.40	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	140	2	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	17	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	30	1	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	0.08	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	5.3	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	51	2	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	580	4.0	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	54	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	16	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	882	1	umhos/cm	Field	6/6/23	GAM	
Dissolved Oxygen	0.43	0.1	mg/L	Field	6/6/23	GAM	
EH (Oxidation Reduction Potential)	230.5		mV	Field	6/6/23	GAM	
Nitrogen, Ammonia (NH3 as N)	1.0	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/7/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/7/23	CWD	
pH, Field	6.75	N/A	S.U.	Field	6/6/23	GAM	
Solids, Dissolved	610	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	2.3	0.5	mg/L	EPA 300.0	6/7/23	CWD	
Temperature	15.2	0.1	C	Field	6/6/23	GAM	
Turbidity	11.64	1	NTU	Field	6/6/23	GAM	
Depth to Water	28.84	N/A	Feet	Field	6/6/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P22-45

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01782 **Collection Date / Time :** 06/06/2023 12:55

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	0.34	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	130	2	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	11	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	36	1	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	0.15	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	5.2	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	46	2	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	530	4.0	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	43	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	13	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	816	1	umhos/cm	Field	6/6/23	GAM	
Dissolved Oxygen	0.38	0.1	mg/L	Field	6/6/23	GAM	
EH (Oxidation Reduction Potential)	183.2		mV	Field	6/6/23	GAM	
Nitrogen, Ammonia (NH3 as N)	0.53	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/7/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/7/23	CWD	
pH, Field	6.86	N/A	S.U.	Field	6/6/23	GAM	
Solids, Dissolved	570	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	18	0.5	mg/L	EPA 300.0	6/7/23	CWD	
Temperature	14.5	0.1	C	Field	6/6/23	GAM	
Turbidity	2.25	1	NTU	Field	6/6/23	GAM	
Depth to Water	22.67	N/A	Feet	Field	6/6/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P15-35 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01783 **Collection Date / Time :** 06/06/2023 10:48

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.003	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	2.3	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.61	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/6/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P13-42 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01784 **Collection Date / Time :** 06/06/2023 11:52

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.020	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	16	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.08	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/6/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P22-45 - Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01785 **Collection Date / Time :** 06/06/2023 12:55

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	Less than	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Dissolved	11	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Dissolved	0.15	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/6/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P14-40

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01802 **Collection Date / Time :** 06/07/2023 10:48

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.003	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	0.31	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	110	2	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	4.0	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	54	1	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	0.18	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	6.9	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	120	2	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	790	4.0	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	39	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	52	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	867	1	umhos/cm	Field	6/7/23	GAM	
Dissolved Oxygen	0.30	0.1	mg/L	Field	6/7/23	GAM	
EH (Oxidation Reduction Potential)	-137.5		mV	Field	6/7/23	GAM	
Nitrogen, Ammonia (NH3 as N)	1.4	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/8/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/8/23	CWD	
pH, Field	6.95	N/A	S.U.	Field	6/7/23	GAM	
Solids, Dissolved	820	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	1.5	0.5	mg/L	EPA 300.0	6/8/23	CWD	
Temperature	14.7	0.1	C	Field	6/7/23	GAM	
Turbidity	Less than	1	NTU	Field	6/7/23	GAM	
Depth to Water	31.45	N/A	Feet	Field	6/7/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P14-40 Duplicate

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01803 **Collection Date / Time :** 06/07/2023 10:48

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.002	0.002	mg/L	SW846: 6020A	6/26/23	NRH	
Barium, Total	0.30	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Calcium, Total	110	2	mg/L	SW846: 6020A	6/26/23	NRH	
Iron, Total	4.0	0.2	mg/L	SW846: 6020A	6/26/23	NRH	
Magnesium, Total	54	1	mg/L	SW846: 6020A	6/26/23	NRH	
Manganese, Total	0.18	0.01	mg/L	SW846: 6020A	6/26/23	NRH	
Potassium, Total	6.9	0.1	mg/L	SW846: 6020A	6/26/23	NRH	
Sodium, Total	120	2	mg/L	SW846: 6020A	6/26/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	790	4.0	mg/L	SM 2320B	6/12/23	CL	CL-ALS
Chloride	39	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	47	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	867	1	umhos/cm	Field	6/7/23	GAM	
Dissolved Oxygen	0.30	0.1	mg/L	Field	6/7/23	GAM	
EH (Oxidation Reduction Potential)	-137.5		mV	Field	6/7/23	GAM	
Nitrogen, Ammonia (NH3 as N)	1.4	0.020	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/8/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/8/23	CWD	
pH, Field	6.95	N/A	S.U.	Field	6/7/23	GAM	
Solids, Dissolved	830	20	mg/L	SM 2540C	6/12/23	CL	CL-ALS
Sulfate	1.5	0.5	mg/L	EPA 300.0	6/8/23	CWD	
Temperature	14.7	0.1	C	Field	6/7/23	GAM	
Turbidity	Less than	1	NTU	Field	6/7/23	GAM	
Depth to Water	31.45	N/A	Feet	Field	6/7/23	GAM	

WestRock

Analytical Services Laboratory
Final Report

Sample Description: P23-40

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01804 **Collection Date / Time :** 06/07/2023 11:51

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Total Metals							
Arsenic, Total	0.036	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Barium, Total	0.57	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Calcium, Total	130	2	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Total	16	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Magnesium, Total	68	1	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Total	0.07	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
Potassium, Total	17	0.1	mg/L	SW846: 6020A	6/22/23	NRH	
Sodium, Total	130	2	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Alkalinity as CaCO3	990	20	mg/L	SM 2320B	6/13/23	CL	CL-ALS
Chloride	41	1.5	mg/L	EPA 300.0	6/8/23	CWD	
COD	49	13	mg/L	EPA 410.4	6/12/23	CL	CL-ALS
Conductivity	1070	1	umhos/cm	Field	6/7/23	GAM	
Dissolved Oxygen	0.27	0.1	mg/L	Field	6/7/23	GAM	
EH (Oxidation Reduction Potential)	-127.6		mV	Field	6/7/23	GAM	
Nitrogen, Ammonia (NH3 as N)	3.0	0.10	mg/L	EPA 350.1	6/14/23	CL	CL-ALS
Nitrogen, Nitrate (NO3 as N)	Less than	0.14	mg/L	EPA 300.0	6/8/23	CWD	
Nitrogen, Nitrite (NO2 as N)	Less than	0.10	mg/L	EPA 300.0	6/8/23	CWD	
pH, Field	6.77	N/A	S.U.	Field	6/7/23	GAM	
Solids, Dissolved	990	20	mg/L	SM 2540C	6/13/23	CL	CL-ALS
Sulfate	0.7	0.5	mg/L	EPA 300.0	6/8/23	CWD	
Temperature	14.0	0.1	C	Field	6/7/23	GAM	
Turbidity	6.88	1	NTU	Field	6/7/23	GAM	
Depth to Water	26.20	N/A	Feet	Field	6/7/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P14-40 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01805 **Collection Date / Time :** 06/07/2023 10:59

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.002	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	3.8	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.17	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/7/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P14-40 Duplicate Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01806 **Collection Date / Time :** 06/07/2023 10:59

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.002	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	3.8	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.18	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/7/23	GAM	

Analytical Services Laboratory
Final Report

Sample Description: P23-40 Dissolved

Location: Chillicothe **Submitted by:** Steve Hamilton

Lab Sample#: BA01807 **Collection Date / Time :** 06/07/2023 11:58

Comments

	Result	Reporting Limit	Units	Method Reference	Date Analyzed	Analyst	Analysis Note
METALS							
Chillicothe P-Wells Dissovled Metals							
Arsenic, Dissolved	0.036	0.002	mg/L	SW846: 6020A	6/22/23	NRH	
Iron, Dissolved	15	0.2	mg/L	SW846: 6020A	6/22/23	NRH	
Manganese, Dissolved	0.07	0.01	mg/L	SW846: 6020A	6/22/23	NRH	
WET-CHEM							
Turbidity, Dissolved	Less than	1	NTU	Field	6/7/23	GAM	

Sample Description: P23-40 Dissolved

Location: Chillicothe | **Submitted by:** Steve Hamilton

Lab Sample#: BA01807 | **Collection Date / Time :** 06/07/2023 11:58

Comments

*ANALYSIS NOTES

AC: ANALYTICAL RESULT CONFIRMED BY RE-ANALYSIS
DW: RESULTS CALCULATED ON A DRY WGT BASIS
ER: ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE
ES: ESTIMATED VALUE, QUALITATIVE SCREEN
EV: ESTIMATED VALUE DUE TO MATRIX INTERFERENCE
FA: ANALYSIS PERFORMED BY FIELD PERSONNEL
HS: VIAL CONTAINED HEAD SPACE
H1: ANALYTICAL HOLD TIME EXCEEDED
J: ANALYTE DETECTED ABOVE MDL BUT BELOW RL
NC: ANALYSIS NOT COVERED UNDER NELAC CERTIFICATION
P: SAMPLE NOT PROPERLY PRESERVED
QL: LCS NOT WITHIN ESTABLISHED LIMITS
QD: DUPLICATE ANALYSIS NOT WITHIN ESTABLISHED LIMITS
QM: MATRIX SPIKE ANALYSIS NOT WITHIN ESTABLISHED LIMITS
QS: SURROGATE RECOVERY NOT WITHIN ESTABLISHED LIMITS
QB: ANALYTE DETECTED IN METHOD BLANK
Q1: SURROGATES AND/OR MATRIX SPIKE DILUTED OUT
QB: ANALYTE FOUND IN METHOD BLANK AND SAMPLE
Q2: ANALYTE IN SAMPLE MUCH GREATER THAN SPIKE
Q3: ESTIMATED RESULT DUE TO QC FAILURES
Q4: VALID RESULT ALTHOUGH WITH QC FAILURES
SC: SEE COMMENTS
T: TEMPERATURE NOT AT 4C +/_ 2C
TB: ANALYTE FOUND IN TRIP BLANK
TI: TENTATIVELY IDENTIFIED COMPOUND, ESTIMATED VALUE
WW: RESULT REPORTED ON "AS RECEIVED" BASIS

*CONTRACT LABS

CL-C = ALS

CL-P = PACE

CL-TA = TESTAMERICA

CL-O = OTHER CONTRACT LAB

Multi-Sample Login- Logged Samples 5/25/2023 8:18:14 AM

2023-05-25-001

LAB LOG #::	COLLECTION DATE:	LOCATION:	SAMPLE DESC.
BA01686	5/24/2023	Chillicothe	P-BLANK
BA01687	5/24/2023	Chillicothe	P16-50
BA01688	5/24/2023	Chillicothe	P17-50
BA01689	5/24/2023	Chillicothe	P20-50
BA01690	5/24/2023	Chillicothe	P18-50 (OW10R)
BA01691	5/24/2023	Chillicothe	P16-50 - Dissolved
BA01692	5/24/2023	Chillicothe	P17-50 - Dissolved
BA01693	5/24/2023	Chillicothe	P20-50 - Dissolved
BA01694	5/24/2023	Chillicothe	P18-50 (OW10R) - Dissolved

ANALYSIS REQUEST FORM & CHAIN OF CUSTODY RECORD

WestRock Laboratory

965 Capstone Dr. Suite 219 Miamisburg,Ohio 45342 ***Phone: 937-865-5527 / 937-865-5536*** ***Email: Dan.Everett@westrock.com***

Standard Reporting Limits will be used unless notified.

*** MATRIX KEY**

WW = Waste Water	O = Oil
GW = Groundwater	P = Product
SW = Solid Waste	SU = Surface Water
STM=Storm Water	X = Other

IF RUSH RESULTS ARE NEEDED, SPECIFY DUE DATE : _____

If lab certification is required to analyze samples, list below.

Type of certification required_____

LOCATION: Chillicothe

CONTACT PERSON: Steve Hamilton

SAMPLED BY: Gary Magalski

COMMENTS / SPECIAL INFO:

DATE SAMPLED	TIME SAMPLED	CLIENT SAMPLE ID *	MATRIX *	COMPOSITE (C) or GRAB (G)	NUMBER OF CONTAINERS	500mL UNPRESERVED PLASTIC	250mL HNO3 PLASTIC	125mL H2SO4 PLASTIC	40mL HCl VIAL	40mL H2SO4 GLASS	1 L UNPRESERVED GLASS	1L H2SO4 GLASS	500 mL Znc Act / NaOH PLASTIC	500 mL NaOH PLASTIC	250 mL UNPRESERVED Plastic	250 mL Plastic HNO3 Filt.	60 mL UNPRESERVED	OTHER:	As,Ba,Ca,Fe,K,Mg,Mn,Na	Alkalinity, Chloride,COD	Ammonia,Nitrate,Nitrite	TDS, Sulfate	As, Fe, Mn - Dissolved				All pH verified - Lab use only*
		Appropriate pH					< 2	< 2	< 2	< 2		< 2	> 9	>12													
5/24/23	1355	PB	gw	G	7		1	2							2	1	1		X	X	X	X	X				
	1421	P16-50	Gw	G	7		1	2							2	1	1		X	X	X	X	X				
	1513	P17-50	Gw	G	7		1	2							2	1	1		X	X	X	X	X				
	1609	P20-50	Gw	G	7		1	2							2	1	1		X	X	X	X	X				
	1700	P18-50	Gw	G	7		1	2							2	1	1		X	X	X	X	X				

RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	5/24/23 1900	1900	MRH	5-25-23	8:00

* All pH verified at the time of receipt at the indicated pH level as represented by the corresponding bottle field by the person receiving the samples.

5/31/23

CC: MS COC-R8

Issued:11/28/16

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/24/23 **Collected By :** ✓

Weather : 78 Sny **Location :** Park St Landfill

ID : Blank **Parameters :** P wells

Technique

	Micropurge with deidicated pump
	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
X	Grab

Beginning Well Depth : Bl (Ft.)

Purge Start Time : ✓

Purge Water Conditions : 5/24/24

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1355					
Well Depth						(Ft.)
Temp	21.7					(C)
D.O.	5.64					(mg / L)
Conductivity	1.8					(umhos/cm)
pH	7.70					(S. U.)
ORP	302.0					(mV)
Turbidity	0.22					(ntu)

Filtered Turbidity : _____ (ntu) **Time :** _____

Purge Rate : _____ (mL / min)

Total Volume Purged : _____ (L)

Ending Well Depth : _____ (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/24/23 **Collected By :** L

Weather : 79 Sunny **Location :** Port St Landfill

ID : P16-50 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
x	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 18.30 (Ft.)

Purge Start Time : L 5/24/23 ~~0957~~ 1353

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

L 5/24/23 1419

Time	1417	~~1418~~	1421			
Well Depth	18.30	/	/			(Ft.)
Temp	14.1	13.9	13.8			(C)
L 5/24/23 D.O.	0.75	~~10.1~~	0.75	0.74		(mg / L)
Conductivity	593	590	589			(umhos/cm)
pH	7.10	7.12	7.13			(S. U.)
ORP	361.1	358.7	356.1			(mV)
Turbidity	10.01	8.79	7.70			(ntu)

Filtered Turbidity : 0.26 (ntu) **Time :** 1430

Purge Rate : 187 (mL / min)

Total Volume Purged : 5 (L)

Ending Well Depth : 18.30 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/24/23 **Collected By :** L

Weather : 80 Sunny **Location :** Dent St Lufkin

ID : P17.50 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
x	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 17.66 (Ft.)

Purge Start Time : 14:47

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1509	1511	1513			
Well Depth	17.70	–	–			(Ft.)
Temp	13.0	13.1	13.0			(C)
D.O.	0.54	0.50	0.49			(mg / L)
Conductivity	590	590	589			(umhos/cm)
pH	7.15	7.16	7.16			(S. U.)
ORP	333.5	323.1	310.8			(mV)
Turbidity	1.03	0.89	0.77			(ntu)

Filtered Turbidity : <0.02 (ntu) **Time :** 1522

Purge Rate : 306 (mL / min)

Total Volume Purged : 8 (L)

Ending Well Depth : 17.70 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/24/23 **Collected By :** [illegible]

Weather : 80 Sunny **Location :** Pine St Landfill

ID : P20-50 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 19.05 (Ft.)

Purge Start Time : 15:37

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1605	1607	1609			
Well Depth	19.07	-	/			(Ft.)
Temp	14.0	13.9	13.9			(C)
D.O.	0.48	0.46	0.44			(mg / L)
Conductivity	740	740	737			(umhos/cm)
pH	7.00 5/24/23	7.698	6.94			(S. U.)
ORP	300.3	288.7	282.4			(mV)
Turbidity	2.70	3.40	2.60			(ntu)

Filtered Turbidity : 0.12 (ntu) **Time :** 1616

Purge Rate : 237 (mL / min)

Total Volume Purged : 8 (L)

Ending Well Depth : 19.07 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/24/23 **Collected By :** [illegible]

Weather : 80 Sny **Location :** Pent Sr Landfill

ID : P18-50 **Parameters :** P wells

Technique
- ____ Micropurge with deidicated pump
- X Micropurge with portable pump
- ____ Peristaltic Pump
- ____ Dedicated Bailer
- ____ Grab

Beginning Well Depth : 19.43 (Ft.)

Purge Start Time : 1624

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1656	1658	1700			
Well Depth	19.45	—	—			(Ft.)
Temp	12.5	12.4	12.7			(C)
D.O.	0.85	0.82	0.82			(mg / L)
Conductivity	671	671	673			(umhos/cm)
pH	7.03	7.02	7.02			(S. U.)
ORP	280.8	278.6	276.4			(mV)
Turbidity	10.18	8.28	10.15			(ntu)

Filtered Turbidity : 0.85 (ntu) **Time :** 1706

Purge Rate : 255 (mL / min)

Total Volume Purged : 9 (L)

Ending Well Depth : 19.45 (Ft.)

FS:FIELDSHEET-REV.7

FIELD EQUIPMENT CALIBRATION CHECKLIST

DATE : 5/22/23

CALIBRATED BY: L

pH PROBE: 20.0 temp C

7.00 S- S-5295

4.00 S- S-5152

10.00 S- S-5082

7.00 7.01

CONDUCTIVITY : 19.9

umhos: 407.2 S- S121

20.1

7.01

ORP: 20.0 temp C

mv: 223 S- S278

L 5/23/23 New probe

D. O. : ✓ % SATURATION (SATURATED - AIR METHOD)

TURBIDITY : S- S-5001

CALIBRATE FIRST

1.0 NTU* : 0.91

PIPETTES : 37.28

10 NTU*: 9.40

* AFTER CALIBRATION

FS:FIELDCALIBRATION
REV.7

Multi-Sample Login- Logged Samples 5/26/2023 10:24:28 AM

2023-05-26-001

LAB LOG #::	COLLECTION DATE:	LOCATION:	SAMPLE DESC.
BA01695	5/25/2023	Chillicothe	P8-37
BA01696	5/25/2023	Chillicothe	P8-37 Duplicate
BA01697	5/25/2023	Chillicothe	P19-50 (OW11R)
BA01698	5/25/2023	Chillicothe	P12-30R
BA01699	5/25/2023	Chillicothe	P12-40
BA01700	5/25/2023	Chillicothe	P11-52
BA01701	5/25/2023	Chillicothe	P9-45R
BA01702	5/25/2023	Chillicothe	P21-47
BA01703	5/25/2023	Chillicothe	P8-37 Dissolved
BA01704	5/25/2023	Chillicothe	P8-37 Duplicate Dissolved
BA01705	5/25/2023	Chillicothe	P19-50 (OW11R) Dissolved
BA01706	5/25/2023	Chillicothe	P12-30R Dissolved
BA01707	5/25/2023	Chillicothe	P12-40 Dissolved
BA01708	5/25/2023	Chillicothe	P11-52 Dissolved
BA01709	5/25/2023	Chillicothe	P9-45R Dissolved
BA01710	5/25/2023	Chillicothe	P21-47 Dissolved

ANALYSIS REQUEST FORM & CHAIN OF CUSTODY RECORD

WestRock Laboratory

965 Capstone Dr. Suite 219 Miamisburg,Ohio 45342 ***Phone: 937-865-5527 / 937-865-5536*** ***Email: Dan.Everett@westrock.com***

Standard Reporting Limits will be used unless notified.

*** MATRIX KEY**

WW = Waste Water	O = Oil
GW = Groundwater	P = Product
SW = Solid Waste	SU = Surface Water
STM=Storm Water	X = Other

IF RUSH RESULTS ARE NEEDED, SPECIFY DUE DATE : _____

If lab certification is required to analyze samples, list below.

Type of certification required_____

LOCATION: Chillicothe

CONTACT PERSON: Steve Hamilton

SAMPLED BY: Gary Magalski

COMMENTS / SPECIAL INFO:

DATE SAMPLED	TIME SAMPLED	CLIENT SAMPLE ID *	MATRIX *	COMPOSITE (C) or GRAB (G)	NUMBER OF CONTAINERS	500mL UNPRESERVED PLASTIC	250mL HNO3 PLASTIC	125mL H2SO4 PLASTIC	40mL HCl VIAL	40mL H2SO4 GLASS	1 L UNPRESERVED GLASS	1L H2SO4 GLASS	500 mL Znc Act / NaOH PLASTIC	500 mL NaOH PLASTIC	250 mL UNPRESERVED Plastic	250 mL Plastic HNO3 Filt.	60 mL UNPRESERVED	OTHER:	As,Ba,Ca,Fe,K,Mg,Mn,Na	Alkalinity, Chloride,COD	Ammonia,Nitrate,Nitrite	TDS, Sulfate	As, Fe, Mn - Dissolved				All pH verified - Lab use only*
		Appropriate pH					< 2	< 2	< 2	< 2		< 2	> 9	>12													
5/25/23	0901	P8.37	gw	G	7		1	2							2	1	1		x	x	x	x	x				✓
	0901	P8.37 Duplicate	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1012	P19.50	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1119	P12.30R	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1215	P12.40	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1324	P11-52	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1426	P9.45R	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1520	P21.47	gw	G	7		1	2							2	1	1		x	x	x	x	x				

ANALYSIS REQUESTED

RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	5/26/23	0800	[signature]	5/26/23	0800

* All pH verified at the time of receipt at the indicated pH level as represented by the corresponding bottle field by the person receiving the samples.

CC: MS COC-R8

Issued:11/28/16

WestRock Analytical Services Laboratory - Cooler Receipt Form

Location Chillicothe OH Recd on 5/26/23 0800 Opened On 5/26/23 By L
Date/ Time

Shipping

Shipping method / Tracking number Internal

If more than 1 shipping container - quantity recd 1 Were custody seals on container Y (N)

Sample Condition

Packing material : Bubble wrap Paper Absorbent Material (Other) None

Are samples in good condition (Y) N

Coolant : (Ice) Blue Ice None No Ice Needed

Sample temperature on receipt 1-3 C or Not Needed Checked with Infared thermometer S#3041

If samples are below 0 C on thermometer reading - are samples frozen Y N (N/A)

Was each sample bottle checked for the correct pH and in compliance with methods and SOPs and confirmed on C of C

(Y) N NA

Were correct containers used (Y) N

Headspace in VOC vials > 6mm Y N (N/A)

Was sufficient volume submitted (Y) N

Are analysis hold times ok (Y) N

If analysis hold times is < 72 hours is sample collection time given Y N (N/A)
(ie Nitrate, Nitrite, BOD, Color, O-Phosphate, Cr6, MBAS)

Chain Of Custody

Were custody sheets included with cooler and complete (Y) N

Did labels agree with Chain of Custody (Y) N

Did you sign and date the Chain of Custody (Y) N

Rush sample Y (N)

Notification

Contact _____ Date _____ email phone

Disrepancy Details _____

Actions taken _____

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** [illegible]

Weather : 53 Sunny **Location :** Plant Site Landfill

ID : PB-37 + Duplicate **Parameters :** 8 wells

Technique

- X Micropurge with deidicated pump
- ____ Micropurge with portable pump
- ____ Peristaltic Pump
- ____ Dedicated Bailer
- ____ Grab

Beginning Well Depth : 15.80 (Ft.)

Purge Start Time : 0837

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	0857	0859	0901			
Well Depth	15.80	~	~			(Ft.)
Temp	12.0	12.0	12.0			(C)
D.O.	2.58	2.47	2.37			(mg / L)
Conductivity	613	613	614			(umhos/cm)
pH	7.17	7.19	7.18			(S. U.)
ORP	390.7	390.5	389.5			(mV)
Turbidity	0.37	0.44	0.07			(ntu)

Filtered Turbidity : 0.20 (ntu) **Time :** 0908

Purge Rate : 469 (mL / min)

Total Volume Purged : 11 (L)

Ending Well Depth : 15.82 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** L

Weather : 53 Sunny **Location :** Pruitt St Landfill

ID : P19.50 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 19.27 (Ft.)

Purge Start Time : 0942

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1008	1010	1012			
Well Depth	19.27	–	–			(Ft.)
Temp	11.6	11.6	11.6			(C)
D.O.	0.41	0.30	0.29			(mg / L)
Conductivity	562	562	562			(umhos/cm)
pH	7.16	7.17	7.17			(S. U.)
ORP	317.6	293.1	278.1			(mV)
Turbidity	0.67	0.37	0.66			(ntu)

Filtered Turbidity : 0.18 (ntu) **Time :** 1018

Purge Rate : 413 (mL / min)

Total Volume Purged : 12 (L)

Ending Well Depth : 19.27 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** L

Weather : 59 Sny **Location :** Pine St Well FM

ID : P12-30R **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 20.62 (Ft.)

Purge Start Time : 1050

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1115	1117	1119			
Well Depth	20.62	–	–			(Ft.)
Temp	16.8	16.8	16.7			(C)
D.O.	1.07	0.92	0.87			(mg / L)
Conductivity	864	866	863			(umhos/cm)
pH	6.84	6.83	6.82			(S. U.)
ORP	265.7	266.2	266.7			(mV)
Turbidity	34.45	29.10	34.35			(ntu)

Filtered Turbidity : 0.08 (ntu) **Time :** 1127

Purge Rate : 202 (mL / min)

Total Volume Purged : 5 (L)

Ending Well Depth : 20.62 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** L

Weather : 65 Sny **Location :** Pt St Ldfill

ID : P12-40 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 20.0 (Ft.)

Purge Start Time : 1139

Purge Water Conditions : Orange

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1211	1213	1215			
Well Depth	20.0	—	—			(Ft.)
Temp	14.9	15.0	14.8			(C)
D.O.	0.38	0.33	0.31			(mg / L)
Conductivity	875	878	875			(umhos/cm)
pH	5.99	5.75	5.53			(S. U.)
ORP	344.3	350.9	356.2			(mV)
Turbidity	23.96	24.81	23.8			(ntu)

Filtered Turbidity : 0.19 (ntu) **Time :** 1220

Purge Rate : 359 (mL / min)

Total Volume Purged : 13 (L)

Ending Well Depth : 20.0 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** L

Weather : 67 Sunny **Location :** Port St Landfill

ID : P11-52 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 23.14 (Ft.)

Purge Start Time : 1240

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1315	1318	1321	1324		
Well Depth	23.14	–	–	–		(Ft.)
Temp	13.2	13.1	13.1	13.1		(C)
D.O.	11.39	11.44	11.03	11.15		(mg / L)
Conductivity	976	969	970	969		(umhos/cm)
pH	6.54	6.26	6.02	5.86		(S. U.)
ORP	259.4	255.6	251.2	245.4		(mV)
Turbidity	42.71	42.85	42.71	40.85		(ntu)

Filtered in lab

Filtered Turbidity : _____ (ntu) **Time :** _____

Purge Rate : 111 (mL / min)

Total Volume Purged : 3 (L)

Ending Well Depth : 23.14 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 5/25/23 **Collected By :** [illegible]

Weather : 68 Sunny **Location :** Point St Landfill

ID : PG-45R **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 22.42 (Ft.)

Purge Start Time : 1357

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1422	1424	1426			
Well Depth	22.42	~	~			(Ft.)
Temp	12.5	12.4	12.3			(C)
D.O.	0.46	0.45	0.43			(mg / L)
Conductivity	801	802	797			(umhos/cm)
pH	6.90	6.90	6.90			(S. U.)
ORP	205.9	185.5	169.9			(mV)
Turbidity	16.06	13.51	13.73			(ntu)

Filtered Turbidity : 0.58 (ntu) **Time :** 1434

Purge Rate : 231 (mL / min)

Total Volume Purged : 7 (L)

Ending Well Depth : 22.42 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : ~~5/25/23~~ 5/25/23 **Collected By :** L

Weather : 69 Sunny 5/25/23 **Location :** Plant St Landfill

ID : P21-47 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 22.34 (Ft.)

Purge Start Time : 1456

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1516	1518	1520			
Well Depth	25.30	–	–			(Ft.)
Temp	13.2	13.2	13.1			(C)
D.O.	0.49	0.43	0.39			(mg / L)
Conductivity	823	825	823			(umhos/cm)
pH	6.82	6.81	6.82			(S. U.)
ORP	194.5	181.2	165.0			(mV)
Turbidity	16.06	13.15	16.63			(ntu)

Filtered Turbidity : 0.96 (ntu) **Time :** 15:27

Purge Rate : 359 (mL / min)

Total Volume Purged : 10 (L)

Ending Well Depth : 25.30 (Ft.)

FS:FIELDSHEET-REV.7

WestRock Analytical Services Laboratory - Cooler Receipt Form

Location Chillicothe Recd on 5-25-23 / 8:00 (Date/ Time) Opened On 5-25-23 By MRH

Shipping

Shipping method / Tracking number Drop-off

If more than 1 shipping container - quantity recd — Were custody seals on container Y N

Sample Condition

Packing material : Bubble wrap Paper Absorbent Material Other None

Are samples in good condition Y N

Coolant : Ice Blue Ice None No Ice Needed

Sample temperature on receipt 2.9 C or Not Needed Checked with Infared thermometer S#3041

If samples are below 0 C on thermometer reading - are samples frozen Y N N/A

Was each sample bottle checked for the correct pH and in compliance with methods and SOPs and confirmed on C of C

Y N NA

Were correct containers used Y N

Headspace in VOC vials > 6mm Y N N/A

Was sufficient volume submitted Y N

Are analysis hold times ok Y N

If analysis hold times is < 72 hours is sample collection time given (ie Nitrate, Nitrite, BOD, Color, O-Phosphate, Cr6, MBAS) Y N N/A

Chain Of Custody

Were custody sheets included with cooler and complete Y N

Did labels agree with Chain of Custody Y N

Did you sign and date the Chain of Custody Y N

Rush sample Y N

Notification

Contact _____ Date _____ email phone

Disrepancy Details _____

Actions taken _____

Multi-Sample Login- Logged Samples 6/7/2023 8:16:29 AM

2023-06-07-001

LAB LOG #::	COLLECTION DATE:	LOCATION:	SAMPLE DESC.
BA01779	6/6/2023	Chillicothe	P-BLANK
BA01780	6/6/2023	Chillicothe	P15-35
BA01781	6/6/2023	Chillicothe	P13-42
BA01782	6/6/2023	Chillicothe	P22-45
BA01783	6/6/2023	Chillicothe	P15-35 - Dissolved
BA01784	6/6/2023	Chillicothe	P13-42 - Dissolved
BA01785	6/6/2023	Chillicothe	P22-45 - Dissolved

ANALYSIS REQUEST FORM & CHAIN OF CUSTODY RECORD

WestRock Laboratory

965 Capstone Dr. Suite 219 Miamisburg,Ohio 45342 *Phone: 937-865-5527 / 937-865-5536* *Email: Dan.Everett@westrock.com*

Standard Reporting Limits will be used unless notified.

* MATRIX KEY	
WW = Waste Water	O = Oil
GW = Groundwater	P = Product
SW = Solid Waste	SU = Surface Water
STM=Storm Water	X = Other

IF RUSH RESULTS ARE NEEDED, SPECIFY DUE DATE : _____

If lab certification is required to analyze samples, list below.

Type of certification required_____

LOCATION: Chillicothe

CONTACT PERSON: Steve Hamilton

SAMPLED BY: Gary Magalski

COMMENTS / SPECIAL INFO:

DATE SAMPLED	TIME SAMPLED	CLIENT SAMPLE ID *	MATRIX *	COMPOSITE (C) or GRAB (G)	NUMBER OF CONTAINERS	500mL UNPRESERVED PLASTIC	250mL HNO3 PLASTIC	125mL H2SO4 PLASTIC	40mL HCl VIAL	40mL H2SO4 GLASS	1 L UNPRESERVED GLASS	1L H2SO4 GLASS	500 mL Znc Act / NaOH PLASTIC	500 mL NaOH PLASTIC	250 mL UNPRESERVED Plastic	250 mL Plastic HNO3 Filt.	60 mL UNPRESERVED	OTHER:	As,Ba,Ca,Fe,K,Mg,Mn,Na	Alkalinity, Chloride,COD	Ammonia,Nitrate,Nitrite	TDS, Sulfate	As, Fe, Mn - Dissolved				All pH verified - Lab use only*
		Appropriate pH					< 2	< 2	< 2	< 2		< 2	> 9	>12													
6/6/23	1007	P B[illegible]	gw	G	7		1	2							2	1	1		x	x	x	x	x				↑
	1040	P1535	Gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1152	P13-42	Gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1255	P2245	Gw	G	7		1	2							2	1	1		x	x	x	x	x				

RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[illegible]	6/6/23	17[illegible]	MH	6-7-23	8:00

* All pH verified at the time of receipt at the indicated pH level as represented by the corresponding bottle field by the person receiving the samples.

CC: MS COC-R8

Issued:11/28/16

WestRock Analytical Services Laboratory - Cooler Receipt Form

Location Chillicothe Recd on 6-7-23 / 8:00 Opened On 6-7-23 By [illegible]
Date/ Time

Shipping

Shipping method / Tracking number Drop-off

If more than 1 shipping container - quantity recd — Were custody seals on container Y N

Sample Condition

Packing material : Bubble wrap Paper Absorbent Material Other None

Are samples in good condition Y N

Coolant : Ice Blue Ice None No Ice Needed

Sample temperature on receipt 1.1 C or Not Needed Checked with Infared thermometer S#3041

If samples are below 0 C on thermometer reading - are samples frozen Y N N/A

Was each sample bottle checked for the correct pH and in compliance with methods and SOPs and confirmed on C of C

Y N NA

Were correct containers used Y N

Headspace in VOC vials > 6mm Y N N/A

Was sufficient volume submitted Y N

Are analysis hold times ok Y N

If analysis hold times is < 72 hours is sample collection time given Y N N/A
(ie Nitrate, Nitrite, BOD, Color, O-Phosphate, Cr6, MBAS)

Chain Of Custody

Were custody sheets included with cooler and complete Y N

Did labels agree with Chain of Custody Y N

Did you sign and date the Chain of Custody Y N

Rush sample Y N

Notification

Contact _____ Date _____ email phone

Disrepancy Details _____

Actions taken _____

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/6/23 **Collected By :** L

Weather : 69 Cloudy **Location :** Port Stafford

ID : BW **Parameters :** P wells

Technique

	Micropurge with deidicated pump
	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
X	Grab

Beginning Well Depth : _____ (Ft.)

Purge Start Time : _____

Purge Water Conditions : _____

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1007					
Well Depth	/					(Ft.)
Temp	20.1					(C)
D.O.	5.41					(mg / L)
Conductivity	1.5					(umhos/cm)
pH	8.14					(S. U.)
ORP	286.9					(mV)
Turbidity	0.28					(ntu)

Filtered Turbidity : _____ (ntu) **Time :** _____

Purge Rate : _____ (mL / min)

Total Volume Purged : _____ (L)

Ending Well Depth : _____ (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/6/23 **Collected By :** [illegible]

Weather : 70 Cloudy **Location :** Pump Sta [illegible]

ID : P15.35 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 9.70 (Ft.)

Purge Start Time : 1002

Purge Water Conditions : Turbid → Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1044	1046	1048			
Well Depth	1100	″	″			(Ft.)
Temp	12.6	12.5	12.6			(C)
D.O.	0.41	0.43	0.42			(mg / L)
Conductivity	603	603	603			(umhos/cm)
pH	7.34	7.36	7.37			(S. U.)
ORP	303.2	289.7	277.0			(mV)
Turbidity	23.04	24.01	20.47			(ntu)

Filtered Turbidity : 0.18 (ntu) **Time :** 1054

Purge Rate : 388 (mL / min)

Total Volume Purged : 18 (L)

Ending Well Depth : ~~8~~ 10.54 (Ft.)

6/6/23

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/6/23 **Collected By :** L

Weather : 75 Sunny **Location :** Port St Joe Mill

ID : PZ 3-42 **Parameters :** P wells

Technique

	Micropurge with deidicated pump
X	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 28.84 (Ft.)

Purge Start Time : 1113

Purge Water Conditions : clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1148	1150	1152			
Well Depth	28.84	–	–			(Ft.)
Temp	15.7	15.3	15.2			(C)
D.O.	0.54	0.47	0.43			(mg / L)
Conductivity	894	885	882			(umhos/cm)
pH	6.74	6.75	6.75			(S. U.)
ORP	262.6	238.7	230.5			(mV)
Turbidity	12.00	11.45	11.64			(ntu)

Filtered Turbidity : <0.02 (ntu) **Time :** 1200

Purge Rate : 257 (mL / min)

Total Volume Purged : 6 (L)

Ending Well Depth : 28.84 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/6/23 **Collected By :** L

Weather : 77 Sunny **Location :** Front St Lakefield

ID : P 22-45 **Parameters :** P wells

Technique
- ____ Micropurge with deidicated pump
- X Micropurge with portable pump
- ____ Peristaltic Pump
- ____ Dedicated Bailer
- ____ Grab

Beginning Well Depth : 22.67 (Ft.)

Purge Start Time : 12:16

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1250	1253	1255			
Well Depth	22.70	~	~			(Ft.)
Temp 14.4	~~0.41~~	14.4	14.5			(C)
D.O.	0.41	0.38	0.38			(mg / L)
Conductivity	814	815	816			(umhos/cm)
pH	6.84	6.85	6.86			(S. U.)
ORP	216.4	196.4	183.2			(mV)
Turbidity	2.99	2.12	2.25			(ntu)

L 6/6/23

Filtered Turbidity : 60.02 (ntu) **Time :** 1302

Purge Rate : 296 (mL / min)

Total Volume Purged : 12 (L)

Ending Well Depth : 22.70 (Ft.)

FS:FIELDSHEET-REV.7

FIELD EQUIPMENT CALIBRATION CHECKLIST

DATE : 4/5/23

CALIBRATED BY: L

pH PROBE: 20.2 temp C

7.00 S- 5295

4.00 S- 5152

10.00 S- 5305

7.00 7.06

CONDUCTIVITY : 20.1

umhos: 407.3 S- 5121

ORP: 20.1 temp C

mv: 222.9 S- 5278

D. O. : /

% SATURATION (SATURATED - AIR METHOD)

TURBIDITY : S- 500

CALIBRATE FIRST

1.0 NTU* : 0.94

10 NTU*: 9.21

PIPETTES : 28, 37

* AFTER CALIBRATION

FS:FIELDCALIBRATION
REV.7

Multi-Sample Login- Logged Samples 6/8/2023 10:44:37 AM

2023-06-08-003

LAB LOG #::	COLLECTION DATE:	LOCATION:	SAMPLE DESC.
BA01802	6/7/2023	Chillicothe	P14-40
BA01803	6/7/2023	Chillicothe	P14-40 Duplicate
BA01804	6/7/2023	Chillicothe	P23-40
BA01805	6/7/2023	Chillicothe	P14-40 Dissolved
BA01806	6/7/2023	Chillicothe	P14-40 Duplicate Dissolved
BA01807	6/7/2023	Chillicothe	P23-40 Dissolved

ANALYSIS REQUEST FORM & CHAIN OF CUSTODY RECORD

WestRock Laboratory

965 Capstone Dr. Suite 219 Miamisburg,Ohio 45342 ***Phone: 937-865-5527 / 937-865-5536*** ***Email: Dan.Everett@westrock.com***

Standard Reporting Limits will be used unless notified.

*** MATRIX KEY**

WW = Waste Water	O = Oil
GW = Groundwater	P = Product
SW = Solid Waste	SU = Surface Water
STM=Storm Water	X = Other

IF RUSH RESULTS ARE NEEDED, SPECIFY DUE DATE : _____

If lab certification is required to analyze samples, list below.

Type of certification required_____

LOCATION: Chillicothe

CONTACT PERSON: Steve Hamilton

SAMPLED BY: Gary Magalski

COMMENTS / SPECIAL INFO:

DATE SAMPLED	TIME SAMPLED	CLIENT SAMPLE ID *	MATRIX *	COMPOSITE (C) or GRAB (G)	NUMBER OF CONTAINERS	500mL UNPRESERVED PLASTIC	250mL HNO3 PLASTIC	125mL H2SO4 PLASTIC	40mL HCl VIAL	40mL H2SO4 GLASS	1 L UNPRESERVED GLASS	1L H2SO4 GLASS	500 mL Znc Act / NaOH PLASTIC	500 mL NaOH PLASTIC	250 mL UNPRESERVED Plastic	250 mL Plastic HNO3 Filt.	60 mL UNPRESERVED	OTHER:	As,Ba,Ca,Fe,K,Mg,Mn,Na	Alkalinity, Chloride,COD	Ammonia,Nitrate,Nitrite	TDS, Sulfate	As, Fe, Mn - Dissolved				All pH verified - Lab use only*
		Appropriate pH					< 2	< 2	< 2	< 2		< 2	> 9	>12													
6/7/23	1048	P14.40	gw	G	7		1	2							2	1	1		x	x	x	x	x				
	1048	P14.40 op																									
	1151	P23.40																									

ANALYSIS REQUESTED

RELEASED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	6/8/23	0800	[signature]	6/8/23	0800

* All pH verified at the time of receipt at the indicated pH level as represented by the corresponding bottle field by the person receiving the samples.

CC: MS COC-R8

Issued:11/28/16

WestRock Analytical Services Laboratory - Cooler Receipt Form

Location Chillicothe OH Recd on 6/8/23 1030 (Date/ Time) Opened On 6/8/23 By

Shipping

Shipping method / Tracking number Internal

If more than 1 shipping container - quantity recd 1 Were custody seals on container Y N

Sample Condition

Packing material : Bubble wrap Paper Absorbent Material Other None

Are samples in good condition Y N

Coolant : Ice Blue Ice None No Ice Needed

Sample temperature on receipt 3 C or Not Needed Checked with Infared thermometer S#3041

If samples are below 0 C on thermometer reading - are samples frozen Y N N/A

Was each sample bottle checked for the correct pH and in compliance with methods and SOPs and confirmed on C of C

Y N NA

Were correct containers used Y N

Headspace in VOC vials > 6mm Y N N/A

Was sufficient volume submitted Y N

Are analysis hold times ok Y N

If analysis hold times is < 72 hours is sample collection time given Y N N/A
(ie Nitrate, Nitrite, BOD, Color, O-Phosphate, Cr6, MBAS)

Chain Of Custody

Were custody sheets included with cooler and complete Y N

Did labels agree with Chain of Custody Y N

Did you sign and date the Chain of Custody Y N

Rush sample Y N

Notification

Contact _____ Date _____ email phone

Disrepancy Details _____

Actions taken _____

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/7/23 **Collected By :** [illegible]

Weather : 65 [illegible] **Location :** Pine St Wolfdale

ID : P14-40 + DP **Parameters :** P wells

Technique

	Micropurge with deidicated pump
x	Micropurge with portable pump
	Peristaltic Pump
	Dedicated Bailer
	Grab

Beginning Well Depth : 31.45 (Ft.)

Purge Start Time : 1016

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1044	1046	1048			
Well Depth	31.45	—	—			(Ft.)
Temp	14.7	14.7	14.7			(C)
D.O.	0.34	0.31	0.30			(mg / L)
Conductivity	866	866	867			(umhos/cm)
pH	6.95	6.95	6.95			(S. U.)
ORP	-132.4	-135.6	-137.5			(mV)
Turbidity	1.17	0.41	0.85			(ntu)

Filtered Turbidity : <0.02 (ntu) **Time :** 1059

Purge Rate : 251 (mL / min)

Total Volume Purged : 7 (L)

Ending Well Depth : 31.45 (Ft.)

FS:FIELDSHEET-REV.7

WESTROCK GROUND WATER MONITORING FIELD LOG

Date : 6/2/23 **Collected By :** [illegible]

Weather : 69 Sny **Location :** [illegible]

ID : P23.40 **Parameters :** P wells

Technique

- ___ Micropurge with deidicated pump
- X Micropurge with portable pump
- ___ Peristaltic Pump
- ___ Dedicated Bailer
- ___ Grab

Beginning Well Depth : 26.20 (Ft.)

Purge Start Time : 11:18

Purge Water Conditions : Clear

Minimum of 3 readings taken to show stabilzation of parameters before samples are taken

Time	1147	1149	1151			
Well Depth	26.20	~	/			(Ft.)
Temp	14.0	14.0	14.0			(C)
D.O.	0.39	0.30	0.27			(mg / L)
Conductivity	1073	1071	1070			(umhos/cm)
pH	6.79	6.77	6.77			(S. U.)
ORP	-125.8	-127.1	-127.6			(mV)
Turbidity	6.58	5.33	6.88			(ntu)

Filtered Turbidity : <0.02 (ntu) **Time :** 1158

Purge Rate : 294 (mL / min)

Total Volume Purged : 10 (L)

Ending Well Depth : 26.20 (Ft.)

FS:FIELDSHEET-REV.7

1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

Appendix B Historic Groundwater Quality Data

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P8-37	9/14/1995	321	<100	<2		0.1	n/a	<1	114	37	2	<5000	1.9		<5	45.8	30	n/a	1760		3.27	19.3	132	n/a	n/a	<100	<20	60		
P8-37	9/29/1995	329	<100	2		0.1	n/a	<1	98.6	34	3	<5000	3.01		<5	45.8	40	n/a	1840		3.47	16.6	137	n/a	n/a	<100	<20	7.5		
P8-37	10/5/1995	326	<100	<2		0.11	n/a	<1	109	34	3	<5000	1.95		<5	45.2	30	n/a	1820		3.01	17.4	121	n/a	n/a	<100	<20	n/a		
P8-37	10/12/1995	320	<100	n/a		0.1	n/a	<1	113	34	<2	<5000	1.16		<5	45.9	20	n/a	1870		2.78	20.5	90	n/a	n/a	<100	<20	25.1		
P8-37	4/11/1996	324	<100	<2		0.1	<10	<1	112	36	<2	<5000	0.13		<5	46.5	n/a	n/a	1830		2.11	22.3	115	n/a	n/a	<100	<20	4.5		
P8-37	10/16/1996	312	<100	<2		0.09	<10	<1	105	33	<2	<5000	0.06		<5	40.7	<10	n/a	2000		2.14	23.9	97	n/a	504	<100	<20	3		
P8-37	4/22/1997	304	<100	<2		0.1	<10	<1	102	32	<2	<5000	0.1		<5	41.5	<10	n/a	1380		2.52	24.8	109	n/a	492	<100	<20	2.7		
P8-37	10/13/1997	332	<100	<2		0.1	<10	<1	116	30	<2	<5000	0.17		<5	46.5	<10	n/a	3250		2.45	18.8	122	n/a	536	<100	<20	4.7		
P8-37	4/16/1998	325	<100	<2		0.09	<10	<1	109	35	<2	<5000	0.25		<5	42.1	<10	n/a	2300		2.07	22.2	92	n/a	652	<100	<20	4.5		
P8-37	10/20/1998	312	<100	<2		0.08	<10	<1	107	30	<2	<5000	0.09		<5	42.1	<10	n/a	3100		2.09	19.2	107	n/a	552	100	<20	4		
P8-37	4/29/1999	321	<100	<2		0.12	<10	<1	139	27	<2	<5000	0.32		<5	55.1	10	n/a	3200		3.38	29.1	83	n/a	660	100	<20	4.5		
P8-37	10/11/1999	294	<100	<2		0.08	<10	<1	96.1	30	<2	<5000	0.12		<5	37.2	10	n/a	2900		2.24	19	88	<1000	640	<100	<20	3.9		
P8-37	4/18/2000	298	<100	<2		0.09	<10	<1	94.7	32	<2	<5000	0.34		<5	37.5	<10	n/a	2360		1.98	22.1	98	n/a	660	<100	<20	4.9		
P8-37	10/11/2000	288	<100	<2		0.09	<10	<1	110	46	<2	<5000	0.19		<5	43.1	<10	n/a	3000		2.2	24.7	132	1200	560	<100	<20	3.7		
P8-37	4/19/2001	298	<100	<2		0.09	<10	<1	106	35	<2	<5000	0.28		<5	43.3	<10	n/a	5450		2.32	25.7	88	n/a	536	<100	<20	4.2		
P8-37	10/17/2001	200	<100	<2		0.08	<10	<1	100	28	<3	<5000	0.09		<5	41.4	<10	n/a	<100		1.95	19.4	97	1200	628	<100	<20	1.75		
P8-37	4/16/2002	309	<100	<2		0.08	<10	<1	104	34	<3	<5000	0.34		<5	42.7	10	n/a	5900		2.34	21.5	87	n/a	700	<100	<20	3.6		
P8-37	10/14/2002	290	<100	<2		0.08	<10	<1	103	32	<2	<5000	0.38		<5	40.4	<10	n/a	<100		1.8	17.6	82	<1000	550	<100	<20	4.2		
P8-37	4/24/2003	300	<100	<2		0.08	<10	<1	99.2	40	<2	<5000	0.17		<5	40.9	<10	n/a	1990		1.9	21.8	110	n/a	580	<100	<20	4.1		
P8-37	10/27/2003	280	<100	<2		0.08	<10	<1	103	50	<2	<5000	<0.03		<5	40.2	<10	n/a	4700		2.3	23	97	<1000	636	<100	<20	1.1		
P8-37	4/21/2004	252	<100	<2	n/a	0.09	<10	<1	100	60	<2	<5000	0.04	n/a	<5	38.9	<10	n/a	2200		2.9	29.9	120	n/a	692	<100	<20	0.8		
P8-37	10/25/2004	284	<100	<2	n/a	0.09	<10	<1	112	40	<2	<5000	0.07	n/a	<5	45.3	<10	n/a	6400		2.7	21.7	87	<1000	692	<100	<20	0.97		
P8-37	4/21/2005	240	<100	<2	n/a	0.09	<10	<1	91.1	47	<2	<5000	0.05	n/a	<5	38.5	<10	n/a	1200		1.9	31.4	130	n/a	600	<100	<20	0.8		
P8-37	10/19/2005	292	580	<2	<2	0.09	<10	<1	103	34	<2	<5000	0.31	<0.03	<5	39.1	<10	n/a	8500		2	21.9	79	<1000	564	<100	<20	14.42		
P8-37	12/8/2005	n/a	n/a	<200	<2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.07	<0.03	n/a	n/a	<10	n/a	n/a		n/a	22.9	n/a	n/a	n/a	n/a	n/a	n/a		
P8-37	5/17/2006	280	<100	<2	<2	0.08	<10	<1	99	42	<2	12000	0.05	<0.03	<5	37	<10	n/a	3800		2.2	22	103	n/a	590	<100	<20	2.7		
P8-37	11/9/2006	290	<100	<2	<2	0.09	<10	<1	107	45	<2	<5000	<0.03	<0.03	<5	40	<10	n/a	4600		2	19	121	<1000	640	<100	<20	5.52		
P8-37	6/11/2007	260	<100	<2	<2	0.08	<10	<1	100	41	<2	<5000	<0.03	<0.03	<5	39	<10	n/a	1300		2.1	25	120	n/a	500	<100	<20	0.93	6.45	134
P8-37	10/25/2007	296	<100	<2	<2	0.08	<10	<1	100	30	<2	<5000	<0.03	<0.03	<5	39	<10	n/a	4200		2	20	85	<1000	450	<100	<20	3.51	5.92	142
P8-37	6/12/2008	250	<100	<2	<2	0.08	<10	<1	100	41	<2	<5000	0.05	<0.03	<5	38	<10	n/a	1600		2.2	25	114	n/a	490	<100	<20	<0.1	10.87	220
P8-37	10/21/2008	290	<100	<1	<2	0.08	<10	<1	104	32	<2	<5000	0.04	<0.03	<5	40	<10	n/a	4900		2	21	80	<1000	440	<100	<20	4.26	8.24	132
P8-37	5/12/2009	300	<100	<2	<2	0.08	<10	<1	97	39	<2	9000	0.06	<0.03	<5	37	<10	n/a	4300		1.8	19	84	n/a	420	<100	<20	1.66	6.09	50
P8-37	12/8/2009	290	<100	<2	<2	0.08	<10	<1	107	42	<2	<5000	0.13	0.04	<5	42	<10	n/a	2800		1.9	19	123	1200	450	<100	<20	8.76	8.04	32
P8-37	5/13/2010	n/a	<100	<2	<2	0.09	<1	<1	99	43	<2	14000	0.14	<0.03	<2	38	<10	n/a	1400	<0.10	2.1	21	100	n/a	400	<2	<20	0.9	5.2	116
P8-37	11/11/2010	n/a	<100	<2	n/a	0.08	<10	<1	100	40	<2	<10000	<0.03	n/a	<5	41	<10	n/a	3300	<0.10	2.1	23	81	<1000	430	<100	<20	<1	6.17	-2
P8-37	6/16/2011	n/a	<100	<1	n/a	0.081	<1	<1	96	50	<1	11000	0.03	n/a	<2	39	<2	n/a	770	<0.10	2.1	29	115	n/a	460	<1	<20	1.31	2.29	48.3
P8-37	12/8/2011	n/a	<100	<2	<1	0.079	<1	<1	99	42	<2	<10000	0.05	<0.02	<2	39	<10	n/a	2100	<0.10	2.1	21	96	1000	450	<2	<20	<1	2.49	24
P8-37	5/9/2012	n/a	<100	<1	<1	0.092	<1	<1	96	45	<1	<10000	0.03	<0.02	<2	37	<2	<2	1600	<0.10	2.2	24	88	n/a	460	<1	<20	<1	3.16	125.2
P8-37	10/24/2012	n/a	<100	<2	<2	0.084	<1	<1	94	40	<2	12000	<0.03	<0.03	<2	41	<10	<100	2600	<0.10	2	16	85	<1000	480	<2	<20	<1	4.89	139.1
P8-37	5/15/2013	n/a	<100	<1	<1	0.088	<1	<1	87	42	<1	<10000	<0.02	<0.02	<2	38	<2	<2	1000	<0.10	2.2	24	96	n/a	420	<1	<20	<1	2.1	90.2
P8-37	11/5/2013	300	<100	<1	<1	0.084	n/a	n/a	93	39	n/a	<10000	<0.02	<0.02	n/a	40	<2	n/a	2800	<0.10	2.1	21	100	<1000	490	n/a	n/a	<1	4.28	116.8
P8-37	4/24/2014	260	<100	<1	<1	0.081	n/a	n/a	93	51	n/a	<10000	<0.02	<0.02	n/a	40	<2	n/a	690	<0.10	2.1	27	110	<1000	540	n/a	n/a	<1	2.35	147.3
P8-37	10/9/2014	300	<100	<1	<1	0.078	n/a	n/a	90	40	n/a	<10000	<0.02	<0.02	n/a	38	<2	n/a	2700	<0.10	2.1	22	77	<1000	500	n/a	n/a	<1	4.9	338.6
P8-37	4/23/2015	310	<100	<1	<1	0.081	n/a	n/a	90	44	n/a	<10000	0.08	0.03	n/a	38	<2	n/a	2700	<0.10	2	20	76	<1000	480	n/a	n/a	7.03	4.2	244.5
P8-37	10/21/2015	310	<100	<1	<1	0.078	n/a	n/a	87	47	n/a	<10000	<0.02	0.02	n/a	39	<2	n/a	2100	<0.10	2	22	73	<1000	490	n/a	n/a	<1	4.36	230.6
P8-37	5/4/2016	280	<100	<1	<1	0.084	<1	<1	93	58	<1	<10000	0.03	<0.02	<2	38	<2	n/a	520	<0.10	2.1	26	97	<1000	520	<1	<20	<1	2.2	453
P8-37	11/17/2016	300	<100	<1	<1	0.083	n/a	n/a	98	44	n/a	<10000	<0.02	0.03	n/a	41	<2	n/a	2600	<0.10	2.2	24	71	<1000	480	n/a	n/a	<1	5.69	294.4
P8-37	4/26/2017	250	<200	<1	<1	0.086	n/a	n/a	92	64	n/a	<10000	<0.02	<0.02	n/a	39	<2	n/a	630	<0.10	2.2	32	110	<1000	560	n/a	n/a	<1	2.23	252.8
P8-37	11/7/2017	310	<100	<1	<1	0.087	n/a	n/a	100	48	n/a	<10000	<0.02	<0.02	n/a	44	<2	<2	1400	<0.10	2.2	25	95	<1000	510	n/a	n/a	<1	3.81	226.8
P8-37	5/1/2018	290	<200	<1	<1	0.082	n/a	n/a	85	55	n/a	<10000	<0.02	<0.02	n/a	37	<2	<2	450	<0.1	2	29	98	<1000	490	n/a	n/a	<1	1.81	320.5
P8-37	10/23/2018	290	<200	<2	<2	0.09	n/a	n/a	95	56	n/a	<10000	<0.03	<0.03	n/a	42	<10	<10	840	<0.1	2.3	30	74.1	<1000	490	n/a	n/a	<1	3.47	377.7
P8-37	6/27/2019	310	52	<2	<2	0.08	n/a	n/a	90	48	n/a	<4500	<0.03	<0.03	n/a	39	<10	<10	490	<0.1	2.4	32	100	<1000	570	n/a	n/a	<1	1.47	330.8
P8-37	12/11/2019	360	<50	<2	<2	0.08	<1	<1	90	29	<1	<4500	<0.03	<0.03	<2	39	<10	<10	880	<0.1	2.2	24	58	n/a	510	<2	<20	<1	5.12	119.8
P8-37	4/15/2020	310	<50	<2	<2	0.08	n/a	n/a	91	46	n/a	7100	0.12	<0.03	n/a	40	<10	<10	560	<0.1	2.2	32	100	n/a	580	n/a	n/a	3.03	1.14	222.4
P8-37	10/7/2020	330	220	<2	<2	0.08	n/a	n/a	90	34	n/a	<4500	<0.03	<0.03	n/a	38	<10	<10	540	<0.1	2.2	24	76	n/a	500	n/a	n/a	1.08	3.96	128.2
P8-37	6/8/2021	420	110	<2	<2	0.08	n/a	n/a	91	35	n/a	<4500	<0.03	<0.03	n/a	37	<10	<10	530	<0.1	2.2	24	82	n/a	480	n/a	n/a	<1	2.53	163.5
P8-37	11/17/2021	270	34	<2	<2	0.09	n/a	n/a	95	36	n/a	<4500	<0.03	<0.03	n/a	41	<10	<10	490	<0.1	2.1	26	89	n/a	570	n/a	n/a	<1	3.2	203.7
P8-37	6/22/2022	280	32	<2	<2	0.09	n/a	n/a	100	51	n/a	7100	<0.03	<0.03	n/a	41	<10	<10	390	<0.10	2.1	27	96	n/a	510	n/a	n/a	<1	1.52	184.4
P8-37	12/8/2022	360	<20.0	<2.0	<2.0	0.082	<1.0	<1.0	90	34	<1.0	8400	<0.03	<0.03	<2.0	40	<10	<10	440	<0.10	2.1	22	68	n/a	550	<2.0	<20.0	<1.0	4.79	305.8
P8-37	5/25/2023	330	29	<2	<2	0.09	n/a	n/a	95	49	n/a	<30000	<0.03	<0.03	n/a	40	<10	<10	460	<0.10	2.1	28	91	n/a	550	n/a	n/a	<1	2.37	389.5

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P9-45	2/23/1993	n/a	n/a	<2		0.1	n/a	<1	72.4	n/a	<2	n/a	<0.03		<5	24.9	20	n/a	n/a		n/a	7.6	n/a	n/a	n/a	n/a	n/a	n/a		
P9-45	5/5/1993	n/a	n/a	<2		0.05	n/a	<1	87.4	n/a	<5	n/a	<0.03		<5	30.8	<10	n/a	n/a		2.8	36.7	n/a	n/a	n/a	n/a	<20	0.1		
P9-45	8/16/1993	n/a	n/a	<2		0.04	n/a	<1	67.3	n/a	<2	n/a	<0.03		<5	24.7	<10	n/a	n/a		n/a	9.4	n/a	n/a	n/a	n/a	n/a	n/a		
P9-45	11/15/1993	n/a	n/a	<2		0.03	n/a	<1	73.8	n/a	<2	n/a	0.06		<5	27.9	<10	n/a	n/a		3.5	11.6	n/a	n/a	n/a	n/a	<20	0.1		
P9-45	2/15/1994	n/a	n/a	<2		0.04	n/a	<1	71.6	n/a	<2	n/a	<0.03		<5	24.1	10	n/a	n/a		2.72	15.6	n/a	n/a	n/a	n/a	<20	n/a		
P9-45	5/24/1994	n/a	n/a	<2		0.04	n/a	<1	70.6	n/a	2	n/a	<0.03		<5	23.6	<10	n/a	n/a		n/a	11.8	n/a	n/a	n/a	n/a	n/a	n/a		
P9-45	2/13/1995	n/a	n/a	n/a		0.05	n/a	n/a	n/a	19	n/a	<5000	0.03		n/a	n/a	n/a	n/a	n/a		3.04	11.8	n/a	n/a	n/a	n/a	n/a	0.1		
P9-45	5/10/1995	228	<100	<1		0.03	n/a	<1	74.9	23	<2	<5000	<0.03		<5	23.3	<20	n/a	<100		2.4	10	73	n/a	n/a	n/a	<20	0.1		
P9-45	10/25/1995	247	<100	<2		0.05	n/a	n/a	75.2	20	n/a	<5000	<0.03		n/a	25.9	10	n/a	620		3.09	13.9	33	<1000	n/a	<80	<20	0.6		
P9-45	4/11/1996	190	<100	n/a		n/a	n/a	n/a	n/a	n/a	n/a	<5000	n/a		n/a	n/a	n/a	n/a	<100		n/a	n/a	67	n/a	356	n/a	n/a	n/a		
P9-45	4/17/1996	n/a	n/a	<2		0.08	<10	<1	63.2	25	<2	n/a	1.99		<5	29.7	250	n/a	n/a		1.77	9	n/a	n/a	n/a	<100	<20	4.9		
P9-45	10/16/1996	166	<100	<2		0.07	<10	<1	55.6	20	<2	<5000	1.55		<5	25.1	210	n/a	<100		1.76	8.3	59	<1000	294	<100	<20	1		
P9-45	4/30/1997	192	<100	<2		0.07	<10	<1	57.3	18	<2	<5000	0.98		<5	25.7	230	n/a	<100		2.23	7.3	57	n/a	308	<100	<20	4.6		
P9-45	10/13/1997	208	290	<2		0.08	<10	<1	59.5	14	<2	<5000	1.76		<5	25.1	260	n/a	<100		2.54	7.4	26	<1000	312	<100	<20	4.6		
P9-45	4/14/1998	179	<100	<2		0.06	<10	<1	57.1	26	<2	<5000	1.88		<5	24.9	270	n/a	<100		2.12	8.13	47	n/a	324	<100	<20	4		
P9-45	10/20/1998	172	<100	<2		0.07	10	<1	58.2	19	<2	<5000	1.53		<5	24.8	290	n/a	<100		2.09	7.9	52	<1000	424	<100	<20	4.1		
P9-45	4/29/1999	158	<100	<2		0.06	<10	<1	53.6	23	<2	<5000	1.35		<5	22.1	230	n/a	<100		2.35	7.1	51	n/a	472	<100	<20	4.9		
P9-45	10/11/1999	210	<100	<2		0.09	<10	<1	62.5	19	<2	<5000	2.09		<5	25.7	350	n/a	<100		2.92	9.2	46	<1000	504	<100	<20	4.3		
P9-45	4/18/2000	168	<100	<2		0.08	<10	<1	58.9	28	<2	<5000	1.81		<5	25.9	300	n/a	<100		2.26	9.9	74	n/a	500	<100	<20	4.8		
P9-45	10/11/2000	180	<100	<2		0.08	<10	<1	61	47	<2	<5000	1.89		<5	25.8	300	n/a	<100		2.5	11.3	63	2000	444	<100	<20	4		
P9-45	4/18/2001	167	<100	<2		0.07	<10	<1	58.6	26	<2	<5000	1.42		<5	25.2	280	n/a	<100		2.69	9.6	47	n/a	468	<100	<20	2.7		
P9-45	10/17/2001	181	<100	<2		0.08	<10	<1	62.1	24	<2	<5000	2.36		<5	26.6	330	n/a	<100		2.75	10.6	53	1600	488	<100	<20	4		
P9-45	4/16/2002	184	<100	<2		0.08	<10	<1	58.6	22	<2	<5000	2.08		<5	27.7	300	n/a	<100		2.77	9	55	n/a	512	<100	<20	4.4		
P9-45	10/14/2002	190	<100	<2		0.08	n/a	<1	62.5	22	<2	<5000	2.15		<5	27.6	320	n/a	<100		2.3	9.3	59	<1000	460	<100	<20	2.2		
P9-45	4/24/2003	210	<100	<2		0.08	<10	<1	59.3	24	<2	<5000	1.95		<5	27.1	330	n/a	<100		2.4	11.1	49	n/a	560	<100	<20	4.7		
P9-45	10/20/2003	210	<100	<2		0.09	<10	<1	64.6	26	<2	<5000	2.4		<5	29.5	380	n/a	<100		2.9	10.7	47	<1000	460	<100	<20	4.3		
P9-45	4/12/2004	550	<100	<2	<2	0.24	<10	<1	135	30	<2	<5000	6.8	5.9	<5	63	740	n/a	<100		6.1	37	20	n/a	930	<100	<20	8.8		
P9-45	10/18/2004	704	<100	<2	<2	0.32	<10	<1	143	32	<2	11000	8.4	7.1	<5	74.3	810	n/a	<100		6.4	57.2	8	<1000	1068	<100	<20	10.2		
P9-45	4/21/2005	290	<100	<2	<2	0.15	<10	<1	77	20	<2	5000	4.9	3.2	<5	33.7	920	n/a	<100		3.5	16.8	33	n/a	576	<100	<20	16.8		
P9-45	10/12/2005	410	<100	<2	<2	0.22	<10	<1	107	21	<2	<5000	8.4	4.6	<5	41.9	830	n/a	<100		4	24	39	<1000	690	<100	<20	50.24		
P9-45	12/8/2005	n/a	n/a	<200	<2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.1	2.6	n/a	n/a	560	n/a	n/a		n/a	12.3	n/a	n/a	n/a	n/a	n/a	n/a		
P9-45	5/16/2006	190	<100	<2	<2	0.1	<10	<1	66	26	<2	<5000	7.6	1.2	<5	22	670	n/a	<100		2.6	9.7	45	n/a	450	<100	<20	125		
P9-45	11/14/2006	280	<100	<2	<2	0.15	<10	<1	84	23	<2	<5000	7.4	2.7	<5	27	730	n/a	<100		3.7	13	39	<1000	370	<100	<20	37.22		
P9-45	6/14/2007	352	<100	3	<2	0.18	<10	<1	104	19	<2	<5000	12	3.7	<5	34	710	n/a	<100		3.6	11	36	n/a	420	<100	<20	61	5.44	-27
P9-45	10/25/2007	254	<100	3	<2	0.18	<10	<1	79	24	<2	<5000	17	2.2	<5	26	2300	n/a	<100		3.8	11	39	<1000	350	<100	<20	250	2.99	128
P9-45	6/6/2008	200	<100	8	<2	0.17	<10	1	72	24	<2	<5000	27	0.77	<5	23	2400	n/a	<100		2.9	11	43	n/a	340	<100	<20	743	1.56	31
P9-45	10/14/2008	640	<100	<5	<2	0.33	<10	<1	155	22	<2	6000	8.2	5.7	<5	47	1100	n/a	<100		5.8	32	29	<1000	650	<100	<20	34.14	0.46	38
P9-45	5/12/2009	190	<100	<2	<2	0.11	<10	<1	60	28	<2	<5000	3.9	1.5	<5	20	520	n/a	<100		3	13	52	n/a	250	<100	<20	19.71	1.47	-118
P9-45	12/8/2009	190	<100	<2	<2	0.11	<10	<1	64	21	<2	<5000	2.8	1.3	<5	19	570	n/a	<100		4.2	9.9	36	<1000	220	<100	<20	10.13	2.51	-108
P9-45	5/13/2010	n/a	<100	<2	<2	0.12	<1	<1	73	28	<2	<10000	5.8	1.7	<2	48	530	n/a	<100	<0.10	2.6	10	52	n/a	300	<2	<20	13.8	0.8	-140
P9-45	11/10/2010	n/a	<100	<2	n/a	0.26	<10	<1	120	23	<2	12000	5.3	n/a	<5	55	930	n/a	<100	<0.10	5	23	22	<1000	530	<100	<20	2.5	0.36	-128
P9-45	6/16/2011	n/a	<100	<1	<1	0.11	<1	<1	74	33	<1	<10000	2.6	1.4	<2	29	650	n/a	<100	<0.10	2.3	18	41	n/a	330	<1	<20	8.4	0.23	-133.2
P9-45R	12/20/2007	n/a	n/a	5	<2	n/a	n/a	n/a	n/a	36	n/a	6000	21	7.8	n/a	n/a	1100	n/a	n/a		n/a	21	n/a	n/a	510	n/a	n/a	76	1.75	80
P9-45R	3/12/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	27	n/a	<5000	7.8	6.8	n/a	n/a	1100	n/a	n/a		n/a	18	n/a	n/a	600	n/a	n/a	17.52	1.19	120
P9-45R	6/6/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	30	n/a	<5000	7.6	7	n/a	n/a	1100	n/a	n/a		n/a	19	n/a	n/a	670	n/a	n/a	3.5	2.84	83
P9-45R	9/18/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	30	n/a	<5000	6.6	7	n/a	n/a	1100	n/a	n/a		n/a	23	n/a	n/a	600	n/a	n/a	1.43	4.31	-31
P9-45R	10/22/2008	n/a	n/a	<5	<5	n/a	n/a	n/a	n/a	25	n/a	<5000	7.1	1.7	n/a	n/a	1100	n/a	n/a		n/a	23	n/a	n/a	570	n/a	n/a	n/a	4.12	-88
P9-45R	3/24/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	24	n/a	<5000	4.5	4.2	n/a	n/a	840	n/a	n/a		n/a	12	n/a	n/a	600	n/a	n/a	0.82	3.97	-62
P9-45R	5/28/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	28	n/a	<5000	6.1	6.9	n/a	n/a	1200	n/a	n/a		n/a	16	n/a	n/a	500	n/a	n/a	0.01	0.8	-80
P9-45R	8/13/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	32	n/a	<5000	8.99	3.73	n/a	n/a	1150	n/a	n/a		n/a	15.8	n/a	n/a	700	n/a	n/a	2.3	0.15	-85
P9-45R	11/23/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	27	n/a	<5000	10	8.2	n/a	n/a	980	n/a	n/a		n/a	20	n/a	n/a	580	n/a	n/a	5.23	0.75	-109
P9-45R	3/30/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	31	n/a	<10000	14	14	n/a	n/a	880	n/a	n/a	n/a	n/a	25	n/a	n/a	772	n/a	n/a	0.71	0.6	-90
P9-45R	5/20/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	32	n/a	<10000	9	8.8	n/a	n/a	590	n/a	n/a	n/a	n/a	16	n/a	n/a	510	n/a	n/a	2.3	0.4	-117
P9-45R	7/28/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	32	n/a	<10000	12	12	n/a	n/a	800	n/a	n/a	n/a	n/a	22	n/a	n/a	570	n/a	n/a	0.33	0.36	-94
P9-45R	11/10/2010	n/a	200	<2	n/a	0.32	<10	<1	190	28	<2	20000	13	n/a	<5	44	820	n/a	<100	<0.10	5.5	24	92	<1000	700	<100	<20	2.3	0.45	-92
P9-45R	6/29/2011	n/a	<100	<1	<1	0.23	<1	<1	154	33	<1	<10000	13	14	3	37	640	n/a	<100	<0.10	4.9	19	56	n/a	590	<1	<20	7.09	1.6	-30.8
P9-45R	12/1/2011	n/a	<100	<2	<1	0.33	<1	<1	170	30	<2	<10000	14	13	<2	38	700	n/a	<100	<0.10	6.7	23	91	<1000	660	<2	<20	2.13	0.4	-74.8
P9-45R	5/9/2012	n/a	<100	<1	<1	0.28	<1	<1	180	30	<1	<10000	13	13	<2	40	770	720	<100	<0.10	5.6	22	58	n/a	640	<1	<20	<1	0.26	-84.3
P9-45R	10/25/2012	n/a	200	<2	<2	0.27	<1	<1	150	27	<2	22000	12	12	<2	37	670	630	<100	<0.10	5.9	20	44	<1000	560	<2	<20	<1	0.32	-63.7

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P9-45R	5/15/2013	n/a	170	<1	<1	0.28	<1	<1	150	27	<1	11000	13	14	<2	38	640	670	<100	<0.10	5.9	17	77	n/a	570	<1	<20	5.22	0.32	-255.6
P9-45R	11/5/2013	550	<100	<1	<1	0.3	n/a	n/a	160	31	n/a	10000	16	14	n/a	39	680	n/a	<100	<0.10	6.2	25	35	<1000	590	n/a	n/a	13.99	0.39	-61.5
P9-45R	4/24/2014	510	200	<1	<1	0.28	n/a	n/a	160	26	n/a	16000	15	14	n/a	37	530	n/a	<100	<0.1	5.4	22	67	<1000	670	n/a	n/a	4.03	0.25	-55.3
P9-45R	10/9/2014	550	250	<1	<1	0.25	n/a	n/a	170	30	n/a	<10000	14	14	n/a	38	550	n/a	<100	<0.10	5.6	24	54	<1000	700	n/a	n/a	<1	0.26	-51.3
P9-45R	4/29/2015	410	360	<1	<1	0.3	n/a	n/a	160	40	n/a	<10000	15	14	n/a	36	530	n/a	<100	<0.10	6.1	21	120	<1000	680	n/a	n/a	1.1	0.38	-59.4
P9-45R	11/4/2015	450	420	<1	<1	0.26	n/a	n/a	150	40	n/a	11000	13	12	n/a	32	520	n/a	<100	<0.10	6.8	23	58	<1000	590	n/a	n/a	7.75	0.28	-76.8
P9-45R	5/4/2016	420	520	<1	<1	0.26	<1	<1	140	34	<1	<10000	12	11	<2	30	460	n/a	<100	<0.10	6	26	65	<1000	540	<1	<20	7.86	0.42	-58.9
P9-45R	11/9/2016	450	530	<1	<1	0.29	n/a	n/a	160	42	n/a	<10000	14	13	n/a	33	540	n/a	<100	<0.10	6.2	36	67	<1000	630	n/a	n/a	3.8	0.37	-88.9
P9-45R	4/26/2017	390	490	<1	<1	0.3	n/a	n/a	150	41	n/a	<10000	14	12	n/a	31	420	n/a	<100	<0.10	5.9	28	83	<1000	610	n/a	n/a	15.43	0.35	-96.9
P9-45R	11/7/2017	480	420	<1	<1	0.34	n/a	n/a	150	29	n/a	<10000	12	12	n/a	31	430	440	<100	<0.10	5.8	29	45	<1000	570	n/a	n/a	9.69	0.31	-50.4
P9-45R	5/24/2018	440	570	<1	<1	0.26	n/a	n/a	140	22	n/a	<10000	11	11	n/a	29	400	400	<100	<0.1	5.1	22	74	<1000	550	n/a	n/a	8.15	0.38	-45.3
P9-45R	10/23/2018	390	780	<2	<2	0.3	n/a	n/a	130	30.5	n/a	<10000	13	12	n/a	30	410	390	<100	<0.1	6.2	24	56	<1000	540	n/a	n/a	7.7	0.41	-45.5
P9-45R	6/19/2019	450	1000	<2	<2	0.31	n/a	n/a	150	37	n/a	<4500	12	11	n/a	30	410	390	<100	<0.1	5.4	29	57	<1000	590	n/a	n/a	5.02	0.16	-37
P9-45R	12/10/2019	480	730	<2	<2	0.31	<1	<1	130	27	<1	<4500	12	11	<2	27	380	360	<100	<0.1	5.7	29	37	n/a	480	<2	<20	7.24	0.28	105.5
P9-45R	4/15/2020	390	800	<2	<2	0.24	n/a	n/a	120	18	n/a	7100	11	9.6	n/a	25	340	310	<100	<0.1	4.8	17	46	n/a	480	n/a	n/a	7.32	0.6	-28.2
P9-45R	10/8/2020	480	560	<2	<2	0.34	n/a	n/a	150	32	n/a	7800	13	13	n/a	30	380	370	<100	<0.1	5.5	22	35	n/a	540	n/a	n/a	6.74	0.21	48.5
P9-45R	6/28/2021	600	270	<2	<2	0.25	n/a	n/a	130	27	n/a	7500	9.3	8.6	n/a	27	320	320	<100	<0.1	4	17	59	n/a	550	n/a	n/a	6.77	0.34	55.5
P9-45R	11/17/2021	370	470	<2	<2	0.3	n/a	n/a	140	40	n/a	<4500	11	10	n/a	30	290	290	<100	<0.1	5.2	24	57	n/a	770	n/a	n/a	2.09	0.33	-42.6
P9-45R	6/23/2022	500	460	<2	<2	0.32	n/a	n/a	170	36	n/a	7100	13	13	n/a	35	270	270	<100	<0.10	4.8	19	79	n/a	680	n/a	n/a	10.3	0.31	50
P9-45R	12/8/2022	490	460	<2.0	<2.0	0.27	<1.0	<1.0	150	39	<1.0	5800	10	10	<2.0	33	260	260	<100.0	<0.10	3.8	26	36	n/a	620	<2.0	<20.0	5.62	0.54	228
P9-45R	5/25/2023	530	150	<2	<2	0.23	n/a	n/a	170	31	n/a	<30000	12	11	n/a	35	270	270	<140	<0.1	3.2	26	75	n/a	610	n/a	n/a	13.73	0.43	169.9
P10-50	2/23/1993	n/a	n/a	<2		0.07	n/a	<1	64.5	n/a	<2	n/a	2.17		<5	21.6	200	n/a	n/a		n/a	8.5	n/a	n/a	n/a	n/a	n/a	n/a		
P10-50	5/5/1993	n/a	n/a	<2		0.07	n/a	<1	65	n/a	<2	n/a	2.02		<5	24	200	n/a	n/a		1.66	8.2	n/a	n/a	n/a	n/a	<20	33		
P10-50	8/17/1993	n/a	n/a	2		0.07	n/a	<1	66.9	n/a	<5	n/a	2.21		<5	21	200	n/a	n/a		n/a	8.6	n/a	n/a	n/a	n/a	n/a	n/a		
P10-50	11/10/1993	n/a	n/a	3		0.07	n/a	<1	66	n/a	<2	n/a	2.06		<5	20.6	190	n/a	n/a		1.83	8	n/a	n/a	n/a	n/a	<20	25.4		
P10-50	2/15/1994	n/a	n/a	2		0.06	n/a	<1	63.2	n/a	<2	n/a	2.03		<5	20.5	240	n/a	n/a		1.66	6.9	n/a	n/a	n/a	n/a	<20	n/a		
P10-50	5/24/1994	n/a	n/a	2		0.07	n/a	<1	64.9	n/a	<2	n/a	2.11		<5	20.7	210	n/a	n/a		n/a	7.6	n/a	n/a	n/a	n/a	<20	n/a		
P10-50	2/13/1995	n/a	n/a	n/a		0.07	n/a	<1	n/a	21	<2	<5000	2.26		n/a	n/a	n/a	n/a	n/a		1.68	7.7	n/a	n/a	n/a	n/a	n/a	39		
P10-50	5/10/1995	202	<100	1		0.06	n/a	<1	68.9	18	<2	<5000	2.04		<5	20.3	230	n/a	190		2.07	8	50	n/a	n/a	<80	30	33		
P10-50	10/25/1995	198	<100	21		0.07	n/a	<1	71.5	21	<2	<5000	2.17		<5	22.6	230	n/a	<100		2.04	8.8	42	<1000	n/a	<100	<20	1.4		
P10-50	4/10/1996	188	110	2		0.08	<10	<1	71.9	19	2	<5000	2.47		<5	23	210	n/a	<100		1.61	8.7	59	n/a	308	<100	<20	4.5		
P10-50	10/18/1996	204	<100	2		0.08	<10	<1	77	21	<2	<5000	2.18		<5	23.2	200	n/a	<100		1.59	9	52	<1000	320	<100	30	0.7		
P10-50	4/22/1997	216	<100	<2		0.09	<10	<1	75	1	<2	<5000	2.24		<5	22.6	210	n/a	<100		1.78	8.7	58	n/a	332	<100	<20	3.2		
P10-50	10/13/1997	198	<100	<2		0.08	<10	<1	76	19	<2	<5000	2.15		<5	22.8	230	n/a	<100		1.76	8	63	<1000	324	<100	<20	0.7		
P10-50	4/14/1998	192	<100	2		0.06	<10	<1	66.4	23	<2	<5000	1.97		<5	20.5	180	n/a	<100		1.51	7.97	47	n/a	312	<100	<20	0.6		
P10-50	10/20/1998	179	<100	<2		0.07	<10	<1	69.1	20	<2	<5000	2.11		9	21.2	190	n/a	<100		1.57	8.2	50	<1000	420	<100	120	1		
P10-50	4/29/1999	186	<100	<2		0.07	<10	<1	71.8	20	<2	<5000	2.04		<5	21.2	200	n/a	<100		1.57	7.5	52	n/a	492	<100	30	0.8		
P10-50	10/11/1999	192	<100	<2		0.07	<10	<1	67.5	18	<2	<5000	2.05		<5	20.8	190	n/a	<100		1.58	7.8	45	<1000	480	<100	<20	0.9		
P10-50	4/18/2000	210	<100	2		0.08	<10	<1	67.4	24	<2	<5000	2.01		5	24.2	180	n/a	<100		1.56	9.8	45	n/a	492	<100	30	0.12		
P10-50	10/11/2000	216	<100	2		0.08	<10	<1	70.6	28	<2	8000	2.08		<5	27	200	n/a	<100		1.7	10.3	50	1200	480	<100	<20	1		
P10-50	4/18/2001	192	<100	<2		0.07	<10	<1	68	23	<2	<5000	1.95		6	27.5	180	n/a	<100		1.68	9.9	52	n/a	492	<100	120	0.8		
P10-50	10/17/2001	186	<100	<2		0.06	<10	<1	63.2	20	<2	<5000	2		<5	26.4	190	n/a	<100		1.62	9.5	57	1600	512	<100	180	0.7		
P10-50	4/16/2002	186	<100	<2		0.07	<10	<1	63.2	24	<2	<5000	1.97		<5	27.1	180	n/a	<100		1.84	10.1	54	n/a	512	<100	50	0.5		
P10-50	10/14/2002	200	<100	<2		0.08	<10	<1	65	22	<2	<5000	2.16		<5	26.9	180	n/a	<100		1.7	9.4	53	<1000	520	<100	<20	1		
P10-50	4/24/2003	230	<100	<2		0.08	<10	<1	64.6	22	<2	<5000	1.97		<5	28.7	180	n/a	<100		1.8	10.4	46	n/a	570	<100	100	0.97		
P10-50	10/23/2003	210	<100	<2		0.08	<10	<1	66.4	21	<2	<5000	2		<5	27.2	190	n/a	<100		2.1	10.9	50	<1000	508	<100	40	0.24		
P10-50	4/12/2004	200	<100	<2	n/a	0.09	<10	<1	65.9	21	<2	<5000	1.9	n/a	<5	28	180	n/a	<100		2.7	10.1	49	n/a	510	<100	<20	1.42		
P10-50	10/20/2004	260	<100	<2	n/a	0.11	<10	<1	81.5	25	<2	<5000	2.5	n/a	<5	34.7	220	n/a	<100		2.7	11.4	18	<1000	536	<100	<20	1.12		
P10-50	4/20/2005	222	<100	<2	n/a	0.09	<10	<1	64.3	22	<2	<5000	2.1	n/a	<5	30.9	190	n/a	<100		1.9	10.7	49	n/a	478	<100	<20	0.42		
P10-50	10/12/2005	290	<100	2	<2	0.13	<10	<1	88.2	28	<2	<5000	2.5	2.5	<5	38.3	250	n/a	<100		2.6	13	55	<1000	500	<100	<20	1		
P10-50	12/8/2005	n/a	n/a	<200	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2.9	2.8	n/a	n/a	250	n/a	n/a		n/a	14.6	n/a	n/a	n/a	n/a	n/a	n/a		
P10-50	5/15/2006	320	<100	2	2	0.13	<10	<1	86	22	<2	<5000	2.8	2.7	<5	37	250	n/a	<100		2.7	13	47	n/a	560	<100	<20	3.7		
P10-50	11/14/2006	370	<100	2	<2	0.14	<10	<1	97	18	<2	14000	3.3	3.1	<5	42	280	n/a	<100		2.9	14	51	<1000	400	<100	<20	3.74		
P10-50	6/14/2007	324	<100	2	<2	0.15	<10	<1	95	29	<2	<5000	3.4	3.2	<5	43	270	n/a	<100		3.1	22	68	n/a	450	<100	<20	2.5	3.47	-24
P10-50	10/25/2007	306	<100	2	2	0.14	<10	<1	87	29	<2	<5000	3.1	3.1	<5	38	260	n/a	<100		2.7	20	78	<1000	410	<100	<20	1.9	2.09	140
P10-50	6/12/2008	270	<100	4	2	0.15	<10	<1	94	28	<2	<5000	4	3.9	<5	40	300	n/a	<100		3.2	20	75	n/a	400	<100	<20	0.01	1.44	-125
P10-50	10/14/2008	320	<100	<5	2	0.15	<10	1	88	29	<2	<5000	3.7	3.5	<5	37	290	n/a	<100		3.2	23	72	<1000	440	<100	<20	0.4	0.22	-107
P10-50	5/12/2009	310	<100	<2	<2	0.16	<10	<1	97	29	<2	<5000	3.9	3.9	<5	29	310	n/a	<100		3.2	19	79	n/a	400	<100	<20	2.04	0.8	-168
P10-50	12/17/2009	n/a	<100	2	2	0.16	<10	<1	115	32	<2	<5000	4.5	0.44	<5	29	320	n/a	<100		3.7	20	83	<1000	460	<100	<20	2.09	3.45	9
P10-50	5/13/2010	n/a	<100	3	3	0.19	<1	<1	110	34	<2	<10000	4.2	3.7	<2	27	330	n/a	<100	<0.10	4.2	21	86	n/a	400	<2	<20	<0.1	0.4	-204

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P10-50	11/10/2010	n/a	<100	<2	n/a	0.18	<10	<1	120	31	<2	10000	4.6	n/a	<5	30	350	n/a	<100	<0.10	4.5	18	74	<1000	440	<100	<20	<1	0.6	-223
P10-50	6/16/2011	n/a	<100	2	n/a	0.19	<1	<1	120	38	<1	<10000	4.3	n/a	<2	32	350	n/a	<100	<0.10	4.4	20	80	n/a	460	<1	<20	<1	0.22	-218.2
P10-50	12/8/2011	n/a	<100	2	2	0.2	<1	<1	120	37	<2	<10000	4.4	4.3	<2	29	350	n/a	<100	<0.10	4.3	22	85	<1000	480	<2	<20	<1	0.14	-124.7
P10-50	5/9/2012	n/a	<100	2	2	0.2	<1	<1	130	43	<1	<10000	4.3	4.4	<2	31	380	390	<100	<0.10	4.2	24	80	n/a	490	<1	<20	<1	0.17	-176.2
P10-50	10/25/2012	n/a	<100	2	2	0.19	<1	<1	110	42	<2	<10000	4.4	4.7	<2	30	350	350	<100	<0.10	4.1	22	78	<1000	510	<2	<20	<1	0.18	-380.4
P10-50	5/21/2013	n/a	<100	2	3	0.18	<1	<1	100	34	<1	<10000	4.2	4	<2	30	340	340	<100	<0.10	4.1	20	69	n/a	420	<1	<20	<1	0.24	-115.6
P10-50	11/5/2013	300	<100	2	2	0.15	n/a	n/a	94	34	n/a	<10000	3.9	3.9	n/a	26	310	n/a	<100	<0.10	3.4	18	69	<1000	440	n/a	n/a	<1	0.31	-108.3
P10-50	4/24/2014	300	<100	2	2	0.16	n/a	n/a	100	36	n/a	<10000	4	3.7	n/a	27	320	n/a	<100	<0.1	3.8	21	73	<1000	460	n/a	n/a	<1	0.17	-99.7
P10-50	10/9/2014	300	<100	2	2	0.16	n/a	n/a	110	37	n/a	<10000	4	4	n/a	29	330	n/a	<100	<0.10	3.8	23	75	<1000	490	n/a	n/a	<1	0.19	-66.4
P10-50	5/20/2015	310	<100	2	2	0.16	n/a	n/a	110	37	n/a	<10000	3.8	3.7	n/a	27	330	n/a	<100	<0.10	4	19	75	<1000	500	n/a	n/a	<1	0.42	-81.8
P10-50	10/21/2015	320	<100	2	2	0.16	n/a	n/a	100	38	n/a	<10000	4	4	n/a	30	340	n/a	<100	<0.10	3.8	22	80	<1000	490	n/a	n/a	<1	0.61	-77.9
P10-50	5/4/2016	310	<100	2	2	0.16	<1	<1	110	41	<1	<10000	4.1	3.9	<2	31	360	n/a	<100	<0.10	3.8	24	79	<1000	490	<1	<20	<1	0.29	-61.3
P11-52	2/22/1993	n/a	n/a	<2		0.21	n/a	<1	68.2	n/a	<2	n/a	7.5		<5	42.9	180	n/a	n/a		n/a	12.8	n/a	n/a	n/a	n/a	n/a	n/a		
P11-52	5/10/1993	n/a	n/a	<2		0.19	n/a	<1	65.9	n/a	<2	n/a	6.7		<5	24.4	170	n/a	n/a		7.14	12.2	n/a	n/a	n/a	n/a	<20	72		
P11-52	8/17/1993	n/a	n/a	<2		0.21	n/a	<1	69.5	n/a	<2	n/a	7.1		<5	25.7	180	n/a	n/a		n/a	14.7	n/a	n/a	n/a	n/a	n/a	n/a		
P11-52	11/10/1993	n/a	n/a	<2		0.18	n/a	<1	65.1	n/a	<2	n/a	6.8		<5	24.9	180	n/a	n/a		6.54	12.8	n/a	n/a	n/a	n/a	<20	68.5		
P11-52	2/16/1994	n/a	n/a	<2		0.3	n/a	<1	110	n/a	<2	n/a	11.7		<5	45.1	270	n/a	n/a		8.64	15.4	n/a	n/a	n/a	n/a	<20	137		
P11-52	5/19/1994	n/a	n/a	<2		0.29	n/a	<1	91.4	n/a	<2	n/a	10		<5	36.8	200	n/a	n/a		n/a	32.6	n/a	n/a	n/a	n/a	n/a	n/a		
P11-52	12/7/1994	320	390	<2		0.21	n/a	<1	77.1	24	<3	7000	8.48		<5	28.9	170	n/a	<100		6.5	31.5	52	<2000	n/a	<80	<20	128		
P11-52	5/10/1995	261	240	<1		0.17	n/a	<1	68.7	26	<2	8000	6.88		<5	25.8	180	n/a	170		5.49	21.7	66	n/a	n/a	<80	<20	86		
P11-52	10/13/1995	217	240	<2		0.16	n/a	<1	65.1	26	<2	10000	6.95		18	26.7	170	n/a	<100		4.65	16.3	44	<1000	n/a	<100	30	16		
P11-52	4/17/1996	476	360	<2		0.26	n/a	<1	117	30	<2	10000	10		<5	47.9	240	n/a	130		4.96	21.4	25	n/a	536	<100	<20	4		
P11-52	10/18/1996	272	460	<2		0.18	<10	<1	82.8	29	<2	7000	6.98		<5	30.3	180	n/a	<100		4.41	21.2	59	<1000	380	<100	<20	1.9		
P11-52	4/22/1997	560	430	<2		<0.01	<10	<1	134	33	<2	16000	12.3		<5	54.7	230	n/a	<100		6.94	44.7	18	n/a	630	<100	<20	2.7		
P11-52	10/15/1997	244	570	<2		0.15	<10	<1	65.1	20	<2	7000	5.91		<5	23.5	180	n/a	<100		4.57	23.3	42	1200	356	<100	<20	4.5		
P11-52	4/14/1998	262	350	<2		0.15	<10	<1	70	28	<2	5000	6.38		<5	26.6	160	n/a	140		4.79	25.4	42	n/a	340	<100	<20	1.78		
P11-52	10/20/1998	226	240	<2		0.13	<10	<1	69.6	25	<2	<5000	5.62		<5	26.2	150	n/a	<100		3.53	15.1	43	<1000	532	<100	<20	1		
P11-52	4/29/1999	412	200	<2		0.11	<10	<1	61.7	19	<2	<5000	4.36		<5	24.6	140	n/a	<100		3.64	10.6	48	n/a	528	<100	40	1		
P11-52	10/11/1999	225	140	<2		0.11	<10	<1	66.1	21	<2	<5000	4.54		<5	25.8	140	n/a	<100		3.33	9.6	46	<1000	520	<100	80	0.5		
P11-52	4/18/2000	194	<100	<2		0.11	<10	<1	62.6	22	<2	<5000	4.25		<5	24.5	130	n/a	<100		3.13	9.7	49	n/a	508	<100	<20	1.81		
P11-52	10/11/2000	222	120	<2		0.11	<10	<1	68.1	28	<2	<5000	4.64		7	27.6	140	n/a	<100		3.14	11.7	50	2000	536	<100	130	0.6		
P11-52	4/18/2001	202	<100	<2		0.11	<10	<1	69.6	20	<2	<5000	4.35		<5	27.1	130	n/a	<100		3.24	11.2	59	n/a	508	<100	20	0.7		
P11-52	10/17/2001	242	210	<2		0.12	<10	<1	71.2	20	<2	<5000	5.25		<5	28.7	150	n/a	<100		3.56	15.2	42	1200	552	<100	<20	1		
P11-52	4/16/2002	202	300	<2		0.1	<10	<1	63.2	22	<2	<5000	3.77		<5	24	120	n/a	<100		3.4	11.7	40	n/a	504	<100	60	1.7		
P11-52	10/14/2002	230	290	<2		0.11	<10	<1	67.2	21	<2	<5000	4.54		<5	24.5	120	n/a	<100		3.1	17.9	40	<1000	540	<100	50	1.3		
P11-52	4/23/2003	200	170	<2		0.1	<10	<1	64.8	25	<2	<5000	4.54		<5	24.3	130	n/a	<100		2.9	11.9	54	n/a	520	<100	50	2.2		
P11-52	10/23/2003	260	2900	<2		0.12	<10	<1	73.1	23	<2	13000	4		<5	24.7	160	n/a	<100		4.4	19.7	37	<1000	548	<100	30	3.13		
P11-52	4/19/2004	262	770	<2	<2	0.13	<10	<1	73.7	23	<2	12000	6	4.3	<5	27.7	160	n/a	<100		4.5	23.1	39	n/a	562	<100	<20	14.6		
P11-52	10/27/2004	234	1400	<2	n/a	0.13	<10	<1	71.6	21	<2	<5000	4.1	n/a	<5	25.8	140	n/a	<100		5.3	18.9	40	<1000	504	<100	<20	47.3		
P11-52	4/20/2005	224	620	<2	n/a	0.15	<10	<1	66.1	21	<2	<5000	9.3	n/a	<5	26	150	n/a	<100		4.1	16.1	40	n/a	480	<100	<20	1.8		
P11-52	10/12/2005	204	880	<2	<2	0.14	<10	<1	70.8	23	<2	<5000	5.5	4	<5	24.5	160	n/a	<100		4.2	11.9	49	<1000	480	<100	<20	9.66		
P11-52	12/8/2005	n/a	n/a	<200	<2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.6	4.6	n/a	n/a	150	n/a	n/a		n/a	16.7	n/a	n/a	n/a	n/a	n/a	n/a		
P11-52	7/10/2006	300	400	<2	<2	0.16	<10	<1	78.7	26	<2	9000	5.9	5.4	<5	27	180	n/a	<100		5.3	24	26	n/a	420	<100	<20	1.32		
P11-52	11/14/2006	305	630	<2	<2	0.16	<10	<1	73	24	<2	<5000	5.7	5.6	<5	27	170	n/a	<100		5.3	28	29	<1000	330	<100	<20	2.88		
P11-52	6/14/2007	268	390	<2	<2	0.15	<10	<1	79	19	<2	9000	7.6	5.1	<5	28	170	n/a	<100		4.6	13	37	n/a	360	<100	<20	42	3.21	-5
P11-52	10/25/2007	262	250	<2	<2	0.13	<10	<1	73	22	<2	7000	5.2	4.7	<5	30	150	n/a	<100		3.9	13	34	<1000	340	<100	<20	0.91	3.22	141
P11-52	6/12/2008	190	150	<2	<2	0.11	<10	<1	64	24	<2	<5000	5.3	3.6	<5	27	120	n/a	<100		3.3	12	45	n/a	280	<100	20	4.93	5.21	250
P11-52	10/17/2008	210	230	<2	<2	0.1	<10	<1	59	24	<2	<5000	3.9	3.5	<5	24	120	n/a	<100		2.9	12	39	<1000	280	<100	<20	2.51	6.58	-34
P11-52	5/12/2009	190	<100	<2	<2	0.09	<10	<1	62	33	<2	6000	4.2	3.2	<5	22	100	n/a	<100		2.4	11	56	n/a	260	<100	<20	3.63	0.46	-170
P11-52	12/17/2009	n/a	<100	<2	<2	0.09	<10	<1	65	21	<2	16000	3.2	2.6	<5	23	110	n/a	<100		2.9	12	38	1200	300	<100	<20	10.6	1.49	-67
P11-52	5/25/2010	n/a	430	<2	<2	0.095	<1	<1	68	25	<2	11000	3.2	3	<2	26	130	n/a	<100	<0.10	2.8	9.3	48	n/a	320	<2	<20	3.1	2.2	-153

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P11-52	11/10/2010	n/a	<100	<2	n/a	0.1	<10	<1	86	26	<2	<10000	3.8	n/a	<5	31	160	n/a	<100	<0.10	3.2	14	40	<1000	340	<100	<20	<1	0.13	-259
P11-52	6/16/2011	n/a	120	<1	n/a	0.094	<1	<1	70	34	<1	12000	3.1	n/a	<2	29	130	n/a	<100	<0.10	2.8	12	52	n/a	320	<1	<20	<1	0.13	-189.8
P11-52	12/8/2011	n/a	3100	<2	1	0.097	<1	2	63	29	<2	92000	5	4.9	<2	24	150	n/a	<100	<0.10	5.1	15	50	1000	320	<2	<20	1.21	0.14	-147.4
P11-52	5/30/2012	n/a	<100	<1	<1	0.096	<1	<1	63	25	<1	<10000	3.1	0.27	<2	30	150	130	<100	<0.10	3	16	34	n/a	310	<1	<20	8.49	0.33	-48.8
P11-52	10/25/2012	n/a	320	<2	<2	0.086	<1	<1	57	22	<2	<10000	2.3	<0.03	<2	25	160	130	<100	<0.10	2.6	9.7	28	<1000	270	<2	<20	2.73	0.31	-226.8
P11-52	5/21/2013	n/a	210	<1	<1	0.1	<1	<1	67	24	<1	<10000	2.7	0.28	<2	26	170	160	<100	<0.10	2.9	10	39	n/a	280	<1	<20	2.23	0.26	-132.7
P11-52	11/6/2013	250	220	<1	<1	0.11	n/a	n/a	68	30	n/a	<10000	3.4	1	n/a	27	180	n/a	<100	<0.10	2.9	12	36	<1000	320	n/a	n/a	7.17	1.6	-122.3
P11-52	4/23/2014	320	<100	<1	<1	0.13	n/a	n/a	82	25	n/a	<10000	3.5	0.28	n/a	33	170	n/a	<100	<0.1	3.2	15	31	<1000	420	n/a	n/a	5.6	0.43	-82.2
P11-52	10/22/2014	320	510	<1	<1	0.14	n/a	n/a	80	28	n/a	<10000	4.1	0.26	n/a	31	220	n/a	<100	<0.10	3	16	22	<1000	400	n/a	n/a	8.18	0.91	-92.1
P11-52	5/20/2015	340	150	<1	<1	0.15	n/a	n/a	93	31	n/a	<10000	5.3	1.4	n/a	31	330	n/a	<100	<0.10	3.6	17	23	<1000	420	n/a	n/a	<1	0.71	-82.7
P11-52	10/22/2015	320	100	<1	<1	0.15	n/a	n/a	87	35	n/a	12000	5.3	1.5	n/a	31	370	n/a	<100	<0.10	3.8	17	29	<1000	410	n/a	n/a	<1	0.84	-79.5
P11-52	5/18/2016	370	140	<1	<1	0.16	<1	<1	94	26	<1	16000	5	1.8	<2	31	400	n/a	<100	<0.10	4	19	20	<1000	440	<1	<20	6.69	0.74	-55.5
P11-52	11/8/2016	419	180	<1	<1	0.22	n/a	n/a	120	28	n/a	12000	7.7	3	n/a	34	790	n/a	<100	<0.10	7	22	15	<1000	470	n/a	n/a	<1	0.76	-102.7
P11-52	4/26/2017	490	300	<1	<1	0.3	n/a	n/a	140	39	n/a	11000	9.8	1.1	n/a	41	1100	n/a	<100	<0.10	7.5	28	2.4	<1000	600	n/a	n/a	2.9	0.37	-99.7
P11-52	11/7/2017	440	1100	<1	<1	0.28	n/a	n/a	120	31	n/a	14000	10	3.5	n/a	34	1100	1100	<100	<0.10	8.1	28	5.9	<1000	480	n/a	n/a	5.65	0.38	-75.2
P11-52	6/6/2018	500	660	<1	<1	0.31	n/a	n/a	130	36	n/a	11000	10	4.8	n/a	38	1100	1100	<100	<0.1	8.3	29	2.3	<1000	530	n/a	n/a	4.11	0.46	-38.3
P11-52	10/24/2018	500	920	<2	<2	0.32	n/a	n/a	130	34.7	n/a	12000	12	3.4	n/a	38	980	970	<100	<0.1	8.3	34	<0.5	<1000	540	n/a	n/a	<1	0.42	-63.8
P11-52	6/19/2019	640	2000	<2	<2	0.41	n/a	n/a	160	41	n/a	15000	16	6.9	n/a	47	1000	990	<100	<0.1	9.7	41	<0.5	<1000	640	n/a	n/a	1.93	0.62	-8.1
P11-52	12/12/2019	640	2800	<2	<2	0.39	<1	<1	160	39	<1	20000	17	<0.03	<2	46	1100	1100	<100	<0.1	10	42	<0.5	n/a	640	<2	<20	1.12	0.54	14.8
P11-52	4/15/2020	670	1800	<2	<2	0.39	n/a	n/a	150	35	n/a	18000	18	7.5	n/a	44	1300	1300	<100	<0.1	8.8	38	0.5	n/a	680	n/a	n/a	1.11	0.7	-24.5
P11-52	10/8/2020	590	1400	<2	<2	0.35	n/a	n/a	140	31	n/a	18000	17	9.8	n/a	42	1200	1200	<100	<0.1	7.8	34	1	n/a	640	n/a	n/a	3.36	0.35	-33.3
P11-52	6/8/2021	400	420	<2	<2	0.19	n/a	n/a	85	24	n/a	12000	8.5	0.05	n/a	19	790	750	<100	<0.1	6.2	13	26	n/a	360	n/a	n/a	22.95	1.51	-45.3
P11-52	11/17/2021	400	900	<2	<2	0.28	n/a	n/a	130	34	n/a	4900	12	0.28	n/a	34	1200	1100	<100	<0.1	7.4	30	7.2	n/a	710	n/a	n/a	6.6	7.71	50.8
P11-52	6/22/2022	290	630	<2	<2	0.17	n/a	n/a	88	24	n/a	9100	7.7	1.1	n/a	19	840	820	<100	<0.10	5.4	14	20	n/a	350	n/a	n/a	10.91	6.26	-52.6
P11-52	12/9/2022	570	1100	<2.0	<2.0	0.3	<1.0	<1.0	140	34	<1.0	18000	16	5.3	<2.0	36	1200	1100	<100.0	<0.10	7	28	2	n/a	540	<2.0	<20.0	13.01	2.69	13.3
P11-52	5/25/2023	750	640	<2	<2	0.42	n/a	n/a	170	42	n/a	<30000	20	3.4	n/a	40	980	980	<140	<0.10	8	53	1.7	n/a	690	n/a	n/a	40.85	11.15	245.4
P12-40	2/22/1993	n/a	n/a	<2		0.16	n/a	<1	75.8	n/a	<2	n/a	3.52		<5	60.6	280	n/a	n/a		n/a	38	n/a	n/a	n/a	n/a	n/a	n/a		
P12-40	5/5/1993	n/a	n/a	<2		0.15	n/a	<1	72.3	n/a	<5	n/a	3.25		<5	38	300	n/a	n/a		8.8	28.3	n/a	n/a	n/a	n/a	<20	n/a		
P12-40	8/17/1993	n/a	n/a	3		0.16	n/a	<1	72.3	n/a	<2	n/a	4.49		<5	34.9	300	n/a	n/a		n/a	32.6	n/a	n/a	n/a	n/a	n/a	n/a		
P12-40	11/11/1993	n/a	n/a	2		0.15	n/a	<1	78.5	n/a	<2	n/a	2.6		<5	36.2	330	n/a	n/a		7.4	32.7	n/a	n/a	n/a	n/a	<20	30.4		
P12-40	2/16/1994	n/a	n/a	4		0.2	n/a	<1	96.3	n/a	<2	n/a	7.14		<5	46.6	460	n/a	n/a		10.1	37.8	n/a	n/a	n/a	n/a	<20	49.5		
P12-40	5/19/1994	410	n/a	3		0.18	n/a	<1	77.5	n/a	<2	n/a	2.78		<5	37.4	350	n/a	n/a		n/a	29.5	38	n/a	n/a	n/a	<20	n/a		
P12-40	12/7/1994	398	<100	3		0.17	n/a	<1	80	26	<3	9000	2.74		<5	31.9	350	n/a	100		9.9	52.8	52	<2000	n/a	<80	<20	35.5		
P12-40	5/10/1995	410	130	2		0.19	n/a	<1	89.3	23	<2	6000	2.77		<5	37.1	390	n/a	200		9.54	34.3	30	n/a	n/a	<80	<20	36		
P12-40	10/25/1995	n/a	<100	18		0.22	n/a	<1	87.8	14	<2	8000	6.66		<5	34.9	410	n/a	<100		8.19	57.9	n/a	<1000	n/a	<100	<20	3.6		
P12-40	4/17/1996	408	160	2		0.21	<10	<1	92.1	27	<2	<5000	2.46		<5	43.1	390	n/a	<100		7.73	47	38	n/a	542	<100	<20	4.3		
P12-40	10/18/1996	424	110	3		0.18	<10	<1	93.4	27	<2	11000	2.91		<5	34.3	400	n/a	<100		6.39	65.4	29	<1000	512	<100	<20	4.7		
P12-40	4/26/1997	400	240	2		0.22	<10	<1	87.4	24	<2	8000	2.32		<5	37.5	480	n/a	<100		8.09	48.9	28	n/a	520	<100	<20	3.9		
P12-40	10/16/1997	484	420	3		0.24	<10	<1	111	25	<2	8000	3.55		<5	42.2	680	n/a	<100		8.03	54.8	29	<1000	580	<100	<20	4.7		
P12-40	4/16/1998	428	480	3		0.27	<10	<1	86.7	29	<2	7000	3.85		<5	42.1	470	n/a	<100		8.91	49.9	30	n/a	776	<100	<20	4.3		
P12-40	10/20/1998	403	<100	3		0.22	<10	<1	93.4	30	<2	<5000	3.6		<5	34.6	520	n/a	<100		6.51	57.7	24	<1000	736	<100	<20	4.4		
P12-40	4/29/1999	380	<100	3		0.24	<10	<1	92	22	<2	<5000	2.67		<5	37.1	520	n/a	<100		8.11	30	34	n/a	736	<100	<20	4.1		
P12-40	10/11/1999	357	<100	3		0.19	<10	<1	84.5	22	<2	<5000	2.69		<5	31.3	510	n/a	<100		7.15	32.9	36	<1000	724	<100	<20	4.3		
P12-40	4/18/2000	360	<100	3		0.24	<10	<1	84.9	25	<2	8000	2.52		<5	36.5	510	n/a	<100		7.59	24.2	40	n/a	676	<100	<20	3.6		
P12-40	10/11/2000	365	<100	3		0.23	<10	<1	93.1	28	<2	6000	3.27		<5	34.7	530	n/a	<100		7.61	31.7	38	2000	700	<100	<20	4.3		
P12-40	4/18/2001	388	160	3		0.24	<10	<1	99.3	26	<2	5000	3.06		<5	37.9	480	n/a	<100		8.11	38.7	66	n/a	704	<100	<20	3.9		
P12-40	10/17/2001	364	<100	4		0.21	<10	<1	93.2	20	<2	5000	2.64		<5	32.1	500	n/a	<100		6.79	34.2	35	2800	700	<100	<20	2.75		
P12-40	4/16/2002	380	360	4		0.26	<10	<1	87.5	25	<2	<5000	3.66		<5	37.7	500	n/a	<100		9.13	34.5	29	n/a	756	<100	<20	3.3		

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P12-40	10/14/2002	340	<100	3		0.21	<10	<1	87.3	23	<2	<5000	2.66		<5	29.6	450	n/a	<100		5.8	36	35	<1000	650	<100	<20	2.5		
P12-40	4/23/2003	400	<100	4		0.24	<10	<1	98.1	26	<2	<5000	2.47		<5	34.1	460	n/a	<100		6.3	38.5	30	n/a	740	<100	<20	3.9		
P12-40	10/23/2003	320	<100	4		0.21	<10	<1	84.8	23	<2	6000	2.4		<5	29.3	470	n/a	<100		7.2	35.3	39	<1000	656	<100	<20	4.41		
P12-40	4/21/2004	344	<100	4	n/a	0.23	<10	<1	92.3	25	<2	14000	2.6	n/a	<5	33.1	440	n/a	<100		7.6	28.6	33	n/a	692	<100	<20	4.4		
P12-40	10/27/2004	300	250	6	3	0.23	<10	<1	81.3	22	<2	21000	2.3	1.5	<5	31.2	420	n/a	<100		9.4	30.9	33	<1000	632	<100	<20	8.68		
P12-40	4/20/2005	308	<100	9	4	0.23	<10	<1	84.6	23	<2	<5000	4.2	1.5	<5	21.6	700	n/a	<100		6.4	21.6	54	n/a	580	<100	<20	14.2		
P12-40	10/12/2005	242	460	18	3	0.22	<10	<1	72.2	21	<2	<5000	5.4	1.1	<5	29.9	640	n/a	<100		6.4	13.4	49	<1000	520	<100	<20	7.5		
P12-40	12/8/2005	n/a	n/a	<200	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4.3	0.9	n/a	n/a	480	n/a	n/a		n/a	13.8	n/a	n/a	n/a	n/a	n/a	n/a		
P12-40	5/17/2006	290	160	4	4	0.21	<10	<1	82	22	<2	16000	1.7	1.2	<5	31	440	n/a	200		7.9	16	39	n/a	540	<100	<20	20		
P12-40	11/14/2006	300	490	7	5	0.23	<10	<1	80	25	<2	<5000	2.6	2	<5	32	510	n/a	<100		7.3	15	39	<1000	380	<100	<20	22.06		
P12-40	6/14/2007	352	<100	5	3	0.25	<10	<1	94	23	<2	6000	1.6	0.61	<5	34	480	n/a	<100		7	35	30	n/a	460	<100	<20	12	0.46	0
P12-40	10/25/2007	312	<100	5	5	0.2	<10	<1	86	24	<2	7000	1.6	1.5	<5	28	500	n/a	<100		5.8	19	32	<1000	380	<100	<20	1.61	0.23	134
P12-40	6/12/2008	350	<100	4	<2	0.25	<10	<1	97	27	<2	<5000	3.1	0.62	<5	35	330	n/a	<100		6.8	29	19	n/a	400	<100	<20	<0.1	0.69	216
P12-40	10/17/2008	330	<100	5	4.6	0.18	<10	<1	84	22	<2	<5000	2	2	<5	29	510	n/a	<100		4.8	20	30	<1000	370	<100	<20	0.7	2.17	-9
P12-40	5/12/2009	350	270	29	5	0.33	<10	2	104	28	<2	19000	14	4.8	<5	37	460	n/a	<100		7.1	39	3.3	n/a	390	<100	<20	6.43	4.3	-93
P12-40	12/8/2009	420	180	16	5	0.32	<10	<1	105	27	<2	<5000	10	4.8	<5	39	760	n/a	<100		7.4	29	21	<1000	410	<100	<20	65.68	2.27	-122
P12-40	5/13/2010	n/a	190	21	<2	0.44	<1	<1	100	28	<2	18000	29	0.28	<2	34	490	n/a	<100	<0.10	7.1	34	20	n/a	440	<2	<20	374.8	1.1	-30
P12-40	11/17/2010	n/a	<100	31	<2	0.33	<10	<1	100	26	<2	19000	18	8.1	<5	36	670	n/a	<100	<0.10	6.7	33	13	<1000	500	<100	<20	20	0.26	-158
P12-40	6/29/2011	n/a	<100	4	3	0.24	<1	<1	96	28	<1	<10000	4.6	4.3	<2	33	340	n/a	<100	<0.10	6.5	25	24	n/a	490	<1	<20	7.55	2.57	-21
P12-40	12/1/2011	n/a	<100	5	4	0.25	<1	<1	99	25	<2	<10000	2.3	2.3	<2	30	360	n/a	<100	<0.10	5.9	25	20	<1000	430	<2	<20	<1	0.2	-86.4
P12-40	5/10/2012	n/a	<100	5	2	0.23	<1	<1	100	27	<1	<10000	2.3	0.66	<2	31	490	350	<100	<0.10	7	26	20	n/a	440	<1	<20	20.76	0.28	-37.6
P12-40	10/24/2012	n/a	<100	6	3	0.19	<1	<1	81	23	<2	10000	2.3	1.4	<2	28	360	380	<100	<0.10	5.5	16	29	<1000	360	<2	<20	8.65	3.44	-40.8
P12-40	5/21/2013	n/a	<100	7	3	0.28	<1	<1	99	29	<1	<10000	5.4	1.7	4	35	450	410	<100	<0.10	7.8	25	17	n/a	440	<1	<20	60.88	0.19	-59.3
P12-40	11/6/2013	400	<100	6	4	0.24	n/a	n/a	100	30	n/a	<10000	3.4	2.2	n/a	34	410	n/a	<100	<0.10	6.1	29	18	<1000	460	n/a	n/a	11.48	0.33	-57.1
P12-40	4/23/2014	430	<100	7	2	0.25	n/a	n/a	100	29	n/a	11000	4	0.68	n/a	36	450	n/a	<100	<0.1	6.6	28	18	<1000	500	n/a	n/a	37.72	0.32	-7.9
P12-40	10/22/2014	360	<100	13	5	0.22	n/a	n/a	95	25	n/a	<10000	5.8	2.1	n/a	33	370	n/a	<100	<0.10	6.6	24	26	<1000	430	n/a	n/a	36.13	0.22	-48.4
P12-40	4/1/2015	n/a	n/a	7	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.6	4.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10.55	0.28	-32.8
P12-40	10/22/2015	450	120	9	4	0.26	n/a	n/a	110	30	n/a	13000	6	3	n/a	37	380	n/a	<100	<0.10	6.2	32	13	<1000	520	n/a	n/a	29.04	0.28	-29.1
P12-40	5/18/2016	510	190	7	3	0.33	<1	<1	120	33	<1	11000	5.7	2.2	<2	41	480	n/a	<100	<0.10	8	37	8.7	<1000	530	<1	<20	51.08	0.32	14
P12-40	11/9/2016	400	180	9	4	0.27	n/a	n/a	110	33	n/a	11000	5	2.9	n/a	38	370	n/a	<100	<0.10	6	31	10	<1000	500	n/a	n/a	24	0.42	-58.2
P12-40	4/26/2017	490	260	6	4	0.35	n/a	n/a	120	37	n/a	10000	4.3	3	n/a	44	420	n/a	<100	<0.10	8.6	43	7.3	<1000	750	n/a	n/a	12.64	0.41	-59.6
P12-40	11/28/2017	440	280	14	5	0.27	n/a	n/a	100	30	n/a	<10000	6.6	3.4	n/a	38	330	330	<100	<0.10	6.7	29	12	<1000	490	n/a	n/a	29.6	0.3	-27.7
P12-40	6/6/2018	470	230	8	2	0.28	n/a	n/a	110	30	n/a	<10000	4.3	1.1	n/a	40	440	210	110	<0.1	6.8	25	11	<1000	520	n/a	n/a	29.82	0.41	44.8
P12-40	10/24/2018	460	540	8	4	0.29	n/a	n/a	110	29.8	n/a	<10000	4.8	3	n/a	46	280	260	<100	<0.1	6.8	26	13	<1000	500	n/a	n/a	7.73	0.31	-42.7
P12-40	6/19/2019	430	370	5	2	0.25	n/a	n/a	99	26	n/a	7100	3.7	1.6	n/a	41	270	220	<100	<0.1	6.3	29	25	<1000	450	n/a	n/a	13.78	0.13	9.2
P12-40	12/10/2019	340	310	6	4	0.19	<1	<1	81	20	<1	<4500	3.4	2.7	<2	31	200	200	<100	<0.1	5.3	18	28	n/a	410	<2	<20	4.11	0.32	80
P12-40	4/15/2020	510	480	7	4	0.29	n/a	n/a	110	30	n/a	<4500	5.5	3.4	n/a	45	260	260	<100	<0.1	6.4	28	11	n/a	550	n/a	n/a	23.45	0.4	85.8
P12-40	10/8/2020	470	1300	13	4	0.29	n/a	n/a	110	30	n/a	5200	8.7	4.2	n/a	42	240	230	<100	<0.1	6	27	14	n/a	570	n/a	n/a	32.18	0.18	131.3
P12-40	6/8/2021	850	<20	7	3	0.36	n/a	n/a	130	32	n/a	8800	7.4	2.6	n/a	47	340	330	<100	<0.1	7.1	33	4.9	n/a	590	n/a	n/a	62.17	0.29	88
P12-40	11/17/2021	490	450	14	4	0.37	n/a	n/a	120	34	n/a	<4500	12	7	n/a	48	230	240	<100	<0.1	6.7	44	2.7	n/a	720	n/a	n/a	38.8	0.53	178.7
P12-40	6/22/2022	550	340	4	2	0.4	n/a	n/a	130	33	n/a	14000	9.1	5.1	n/a	40	250	240	<100	<0.10	7.3	44	4.3	n/a	560	n/a	n/a	45.17	0.26	67.6
P12-40	12/9/2022	600	420	8	5	0.38	<1.0	<1.0	130	31	<1.0	14000	8.5	6.6	<2.0	41	250	260	<100.0	<0.10	7	42	4.7	n/a	650	<2.0	<20.0	12.29	0.39	187.8
P12-40	5/25/2023	630	160	4	3	0.41	n/a	n/a	140	36	n/a	<30000	6.2	4.7	n/a	44	310	330	<140	<0.10	8	50	3.5	n/a	490	n/a	n/a	23.81	0.31	356.2
P12-30R	5/17/2006	290	140	<2	<2	0.14	<10	<1	85	21	<2	63000	0.41	<0.03	<5	28	840	n/a	<100		6.3	13	39	n/a	420	<100	<20	20		
P12-30R	11/14/2006	265	340	<2	<2	0.13	<10	<1	75	23	<2	<5000	0.44	0.05	<5	28	790	n/a	<100		6.5	12	51	<1000	160	<100	<20	19.62		
P12-30R	6/14/2007	372	100	<2	<2	0.15	<10	<1	97	23	<2	6000	0.45	0.03	<5	36	750	n/a	<100		7.9	28	27	n/a	450	<100	<20	15	2.49	57
P12-30R	10/25/2007	445	<100	<2	<2	0.2	<10	<1	117	30	<2	7000	0.23	0.08	<5	40	470	n/a	<100		6.1	35	17	<1000	330	<100	<20	7.91	0.28	145
P12-30R	6/12/2008	370	<100	<2	<2	0.15	<10	<1	104	27	<2	<5000	0.5	<0.03	<5	35	400	n/a	<100		6.3	31	22	n/a	430	<100	<20	4.33	1.71	209
P12-30R	10/17/2008	390	<100	<2	<2	0.16	<10	<1	104	23	<2	<5000	0.06	<0.03	<5	34	340	n/a	<100		5.2	23	30	<1000	400	<100	<20	2.77	0.61	10
P12-30R	5/12/2009	450	<100	<2	<2	0.21	<10	<1	111	32	<2	5000	0.59	0.05	<5	34	1300	n/a	130		6.3	39	25	n/a	460	<100	<20	21.68	9.5	-32
P12-30R	12/17/2009	n/a	<100	5	<2	0.22	<10	<1	123	25	2	13000	4.6	0.07	<5	39	520	n/a	390		7.4	27	21	<1000	450	<100	<20	78.22	1.31	106
P12-30R	5/13/2010	n/a	<100	4	<2	0.21	<1	<1	120	29	2	12000	3.1	<0.03	4	35	300	n/a	<100	<0.10	6.9	29	22	n/a	460	<2	26	50.4	0.7	-18
P12-30R	11/17/2010	n/a	<100	2	<2	0.22	<10	<1	110	26	<2	<10000	1.5	<0.03	<5	38	160	n/a	<100	<0.10	6.3	31	19	<1000	530	<100	<20	26	0.93	-44

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P12-30R	6/29/2011	n/a	<100	<1	<1	0.14	<1	<1	106	23	<1	<10000	0.21	<0.02	<2	33	580	n/a	<100	<0.10	6.6	27	21	n/a	500	<1	<20	5.96	2.7	-8.8
P12-30R	12/1/2011	n/a	<100	<2	<1	0.13	<1	<1	100	24	<2	<10000	0.1	0.06	<2	30	630	n/a	<100	<0.10	5.9	27	28	<1000	400	<2	<20	3.74	0.21	-6.7
P12-30R	5/10/2012	n/a	<100	1	<1	0.15	<1	<1	100	26	<1	<10000	0.43	0.08	<2	30	1300	670	<100	<0.10	5.9	24	20	n/a	450	<1	<20	5.71	0.38	2.3
P12-30R	10/24/2012	n/a	<100	<2	<2	0.18	<1	<1	99	27	<2	16000	0.05	<0.03	<2	32	170	120	<100	<0.10	5.5	19	16	<1000	440	<2	<20	1.49	4.06	122.3
P12-30R	5/21/2013	n/a	<100	2	<1	0.2	<1	<1	120	31	<1	<10000	1.2	<0.02	<2	34	540	380	<100	<0.10	6.7	25	20	n/a	390	<1	<20	33.27	0.34	-349.2
P12-30R	11/6/2013	420	<100	<1	<1	0.19	n/a	n/a	110	29	n/a	<10000	0.63	0.05	n/a	36	610	n/a	<100	<0.10	6	28	21	<1000	470	n/a	n/a	15.48	0.2	23.6
P12-30R	4/23/2014	430	<100	1	<1	0.21	n/a	n/a	110	29	n/a	<10000	0.68	0.17	n/a	37	560	n/a	<100	<0.1	6	28	14	<1000	530	n/a	n/a	2.66	0.43	55.9
P12-30R	10/22/2014	390	<100	<1	<1	0.18	n/a	n/a	100	26	n/a	<10000	0.35	0.02	n/a	35	360	n/a	<100	<0.10	6	20	26	<1000	480	n/a	n/a	1.88	0.28	98
P12-30R	4/29/2015	490	<100	<1	<1	0.26	n/a	n/a	120	33	n/a	<10000	0.22	0.07	n/a	39	390	n/a	<100	<0.10	7	34	11	<1000	550	n/a	n/a	<1	0.33	84.9
P12-30R	10/22/2015	420	<100	2	<1	0.2	n/a	n/a	100	30	n/a	<10000	1.2	0.03	n/a	35	450	n/a	<100	<0.10	6.4	27	21	<1000	520	n/a	n/a	23.88	0.28	134.4
P12-30R	5/18/2016	520	<100	2	<1	0.26	<1	<1	120	32	<1	10000	1.3	0.22	<2	39	770	n/a	<100	<0.10	7	31	8.2	<1000	530	<1	<20	29.95	0.34	109.3
P12-30R	11/9/2016	420	<100	1	<1	0.23	n/a	n/a	120	28	n/a	<10000	1	0.09	n/a	37	810	n/a	<100	<0.10	6.8	26	15	<1000	480	n/a	n/a	15.79	0.37	47.6
P12-30R	4/26/2017	470	<200	2	<1	0.3	n/a	n/a	130	37	n/a	<10000	1.1	0.28	n/a	44	780	n/a	<100	<0.10	7.5	36	8.1	<1000	590	n/a	n/a	19.14	0.51	32.4
P12-30R	11/28/2017	470	240	2	1	0.27	n/a	n/a	110	32	n/a	<10000	1.3	0.47	n/a	41	950	890	<100	<0.10	7.6	32	9.4	n/a	520	n/a	n/a	12.09	0.31	54.8
P12-30R	6/6/2018	430	250	2	1	0.25	n/a	n/a	110	30	n/a	<10000	1.2	0.62	n/a	42	750	660	<100	<0.1	6.8	26	12	<1000	490	n/a	n/a	14.56	0.47	119.2
P12-30R	10/24/2018	400	500	2	<2	0.24	n/a	n/a	100	27.9	n/a	<10000	0.94	0.42	n/a	40	800	760	<200	<0.1	6.3	20	19	<1000	470	n/a	n/a	8.09	0.38	29.6
P12-30R	6/19/2019	370	290	<2	<2	0.19	n/a	n/a	91	22	n/a	<4500	0.75	0.28	n/a	37	520	460	<100	<0.1	5	20	33	<1000	420	n/a	n/a	7.48	0.16	131.2
P12-30R	12/10/2019	360	190	3	<2	0.19	<1	<1	91	18	<1	<4500	1.4	0.31	<2	32	690	620	<100	<0.1	4.2	12	26	n/a	380	<2	<20	14.37	0.23	114.1
P12-30R	4/15/2020	420	280	4	<2	0.22	n/a	n/a	94	23	n/a	4500	1.9	0.39	n/a	39	620	560	<100	<0.1	4.9	16	20	n/a	470	n/a	n/a	11.49	0.37	200.9
P12-30R	10/8/2020	400	300	3	<2	0.22	n/a	n/a	100	21	n/a	<4500	1.2	0.36	n/a	35	680	640	110	<0.1	4.8	15	24	n/a	480	n/a	n/a	13.24	0.32	197.7
P12-30R	6/8/2021	800	93	<2	<2	0.31	n/a	n/a	130	30	n/a	<4500	0.85	0.57	n/a	42	630	620	<100	<0.1	6.9	39	8.2	n/a	580	n/a	n/a	3.82	6.11	145
P12-30R	11/17/2021	500	37	5	<2	0.32	n/a	n/a	130	33	n/a	<4500	2.6	0.15	n/a	37	280	220	<100	<0.1	8.5	55	5.3	n/a	680	n/a	n/a	18.68	0.35	218.3
P12-30R	6/22/2022	550	130	<2	<2	0.31	n/a	n/a	130	33	n/a	9100	0.86	0.74	n/a	41	640	640	<100	<0.10	6.9	46	5	n/a	580	n/a	n/a	2.82	0.25	143.8
P12-30R	12/9/2022	490	<20.0	4	<2.0	0.28	<1.0	<1.0	120	26	<1.0	13000	1.9	0.32	<2.0	32	450	400	<100.0	<0.10	7.3	26	13	n/a	550	<2.0	<20.0	18.78	0.46	206.2
P12-30R	5/25/2023	580	<20.0	7	<2	0.31	n/a	n/a	130	34	n/a	<30000	3.8	0.42	n/a	40	520	460	<140	<0.10	7.7	43	5.6	n/a	610	n/a	n/a	34.35	0.87	266.7
P13-42	12/7/1994	625	300	39		0.41	n/a	<1	127	41	<2	10000	20.1		<5	39	130	n/a	<100		8.6	71.2	10	<2000	n/a	n/a	<20	166		
P13-42	2/14/1995	650	210	47		0.43	n/a	<1	123	47	<2	11000	20.6		<5	40.5	130	n/a	<100		8.4	99.3	39	n/a	n/a	n/a	20	120		
P13-42	5/11/1995	564	380	34		0.4	n/a	<1	127	38	<2	6000	21		<5	41	150	n/a	<100		8.73	44.2	61	n/a	n/a	n/a	<20	167		
P13-42	10/13/1995	558	230	42		0.46	n/a	<1	133	49	<2	22000	22.2		<5	44.2	150	n/a	<100		7.57	52.6	<5	<1000	n/a	n/a	<20	1.65		
P13-42	4/9/1996	632	480	40		0.43	<10	<1	141	46	<2	7000	21.3		<5	47.7	150	n/a	120		7.67	56.8	8	n/a	672	<100	<20	1.75		
P13-42	10/22/1996	564	570	34		0.42	<10	<1	144	48	<2	5000	20.3		<5	45.5	140	n/a	150		7.01	42.8	<5	<1000	636	<100	<20	1.7		
P13-42	4/24/1997	616	480	29		0.46	<10	<1	156	50	<2	6000	25.1		<5	47.9	130	n/a	<100		7.8	51.2	<5	n/a	740	<100	<20	3.6		
P13-42	10/13/1997	518	960	26		0.46	<10	<1	135	47	<2	<5000	24.2		<5	41.6	130	n/a	<100		8.84	45.6	<5	<1000	614	<100	<20	2.1		
P13-42	4/16/1998	580	860	35		0.44	<10	<1	143	41	<2	36000	29		<5	40.6	120	n/a	230		6.71	53	6	n/a	896	<100	<20	2.9		
P13-42	10/20/1998	466	400	28		0.36	<10	<1	130	34	<2	9000	25.6		<5	40.7	110	n/a	<100		5.62	26.8	<5	<1000	728	<100	<20	2.8		
P13-42	4/29/1999	579	240	35		0.39	<10	<1	147	48	<2	11000	30.1		<5	42.6	130	n/a	<100		6.7	35.8	<5	n/a	896	<100	<20	3.5		
P13-42	10/11/1999	553	320	42		0.38	<10	<1	139	40	<2	13000	27.9		<5	38.9	90	n/a	<100		7.31	40.7	<5	<1000	904	100	<20	3.4		
P13-42	4/18/2000	486	360	22		0.38	<10	<1	127	45	<2	12000	25.6		<5	33.8	100	n/a	<100		5.68	38.7	22	n/a	688	<100	<20	3.47		
P13-42	10/11/2000	519	180	28		0.36	<10	1	128	39	<2	<5000	23.6		<5	38.2	110	n/a	<100		6.02	28.7	<5	<1000	804	<100	<20	2.1		
P13-42	4/19/2001	464	330	15		0.29	<10	<1	127	27	<2	6000	19.7		<5	37.1	100	n/a	<100		5.27	30.5	5	n/a	728	<100	<20	4.7		
P13-42	10/17/2001	519	270	27		0.35	<10	2	142	30	<2	<5000	24.1		<5	40.2	110	n/a	<100		6.38	27.3	<5	<1000	840	<100	<20	1.4		
P13-42	4/16/2002	466	320	12		0.31	<10	1	128	21	<2	<5000	24.6		<5	34.6	120	n/a	<100		5.62	27.9	39	n/a	648	<100	<20	3.6		
P13-42	10/14/2002	470	310	16		0.31	<10	<1	131	26	<2	46000	22.3		<5	34.6	110	n/a	<100		4.6	24.3	1.1	<1000	660	<100	<20	1.36		
P13-42	4/23/2003	420	260	14		0.28	<10	<1	118	32	<2	6000	17.4		<5	31	100	n/a	<100		4.3	24.8	15	n/a	680	<100	<20	1.2		
P13-42	10/16/2003	500	280	18		0.33	<10	1	147	59	<2	<5000	20.1		<5	37.5	110	n/a	<100		5.8	25.9	5.7	<1000	720	<100	<20	2.13		
P13-42	4/14/2004	460	280	13	n/a	0.33	<10	<1	142	41	<2	<5000	19	n/a	<5	32.5	110	n/a	<100		6	31.3	9.2	n/a	710	<100	<20	0.99		
P13-42	10/28/2004	502	340	18	n/a	0.39	<10	<1	146	45	<2	<5000	22	n/a	<5	34.6	90	n/a	<100		6.4	32.6	2.8	<1000	748	<100	<20	0.31		
P13-42	4/11/2005	482	290	24	22	0.41	<10	<1	133	48	<2	9000	22	20	<5	34.7	100	n/a	<100		5.1	34.2	8.2	n/a	652	<100	<20	1.38		
P13-42	10/19/2005	520	1200	20	20	0.41	<10	<1	147	43	<2	<5000	21	24	<5	34.1	90	n/a	170		5.3	31.5	3	<1000	666	<100	<20	4.9		
P13-42	12/8/2005	n/a	n/a	<200	16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	23	21	n/a	n/a	90	n/a	n/a		n/a	34.4	n/a	n/a	n/a	n/a	n/a	n/a		
P13-42	4/26/2006	470	250	6	6	0.36	<10	<1	135	42	<2	16000	20	19	<5	33	80	n/a	<100		5.2	31	5.3	n/a	680	<100	<20	7.01		
P13-42	11/10/2006	500	1300	15	15	0.29	<10	<1	138	35	<2	38000	21	20	<5	30	70	n/a	<100		5.5	29	0.9	1600	570	<100	<20	6.91		
P13-42	6/11/2007	480	230	19	19	0.4	<10	1	141	21	<2	12000	18	18	<5	33	60	n/a	110		5.7	23	2	n/a	500	<100	<20	3.04	1.6	104
P13-42	10/24/2007	462	450	21	22	0.39	<10	<1	129	34	<2	8000	17	17	<5	30	60	n/a	<100		5.4	24	2.9	<1000	480	<100	<20	7.15	4.6	117
P13-42	6/12/2008	370	540	16	20	0.39	<10	<1	130	29	<2	<5000	16	16	<5	29	60	n/a	<100		5.2	23	17	n/a	440	<100	<20	<0.1	6.5	217
P13-42	10/14/2008	380	550	17	16	0.36	<10	1	134	50	<2	<5000	15	18	<5	27	60	n/a	<100		4.8	20	32	<1000	510	<100	<20	<0.1	0.64	-24
P13-42	5/20/2009	500	320	12	14	0.47	<10	1	150	42	<3	7000	16	16	<5	33	50	n/a	<100		5.4	33	8.4	n/a	580	<100	<20	2.99	1.48	-92

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P13-42	12/1/2009	n/a	410	26	25	0.47	<10	<1	152	51	<2	5000	17	17	<5	32	60	n/a	120		5.5	35	1.6	<1000	580	<100	<20	4.95	2.01	-111
P13-42	5/5/2010	n/a	360	30	32	0.52	<1	<1	150	27	<2	12000	18	19	<2	29	70	n/a	<100	<0.10	5.6	33	<0.5	n/a	530	<2	<20	n/a	2.8	-87
P13-42	11/11/2010	n/a	480	17	n/a	0.46	<10	<1	150	68	<2	22000	19	n/a	<5	28	70	n/a	<100	<0.10	5.1	29	10	<1000	510	<100	<20	4.14	1.6	-84
P13-42	6/16/2011	n/a	210	24	n/a	0.53	<1	<1	150	50	<1	10000	19	n/a	<2	31	70	n/a	<100	<0.10	5.6	36	20	n/a	610	<1	<20	2.34	0.99	-105.8
P13-42	12/1/2011	n/a	280	21	20	0.36	<1	<1	120	23	<2	<10000	12	12	<2	21	60	n/a	<100	<0.10	4.6	26	33	3200	430	<2	<20	1.19	0.77	-92.5
P13-42	5/10/2012	n/a	330	24	23	0.42	<1	<1	150	24	<1	<10000	14	13	<2	26	62	120	<100	<0.10	4.6	36	33	n/a	540	<1	<20	1.31	0.81	-69.2
P13-42	10/16/2012	n/a	280	24	23	0.34	<1	<1	110	33	<2	15000	11	11	<2	22	70	60	<100	<0.10	5	19	21	<1000	430	<2	<20	<1	0.47	-64.6
P13-42	5/15/2013	n/a	230	30	29	0.5	<1	<1	160	35	<1	<10000	15	16	<2	30	75	72	<100	<0.10	5.7	35	1.5	n/a	540	<1	<20	<1	0.24	-68.4
P13-42	11/6/2013	470	210	23	20	0.42	n/a	n/a	140	48	n/a	<10000	15	14	n/a	27	67	n/a	<100	<0.10	4.7	28	2.3	<1000	550	n/a	n/a	<1	0.2	-98.9
P13-42	4/23/2014	570	290	28	26	0.46	n/a	n/a	160	34	n/a	12000	17	16	n/a	31	77	n/a	<100	<0.1	5.2	40	0.7	<1000	560	n/a	n/a	<1	0.23	-65.2
P13-42	10/22/2014	420	350	19	20	0.39	n/a	n/a	140	74	n/a	<10000	15	15	n/a	26	69	n/a	<100	<0.10	5	31	7.8	<1000	570	n/a	n/a	<1	0.22	-62.9
P13-42	4/29/2015	530	400	30	25	0.47	n/a	n/a	150	52	n/a	10000	15	15	n/a	29	80	n/a	<100	<0.10	5.1	45	5.6	<1000	630	n/a	n/a	<1	0.29	-55
P13-42	10/22/2015	400	540	16	17	0.37	n/a	n/a	130	88	n/a	16000	14	14	n/a	27	63	n/a	<100	<0.10	4.6	44	31	<1000	600	n/a	n/a	<1	0.2	-61.2
P13-42	5/4/2016	580	530	25	25	0.45	<1	<1	150	50	<1	<10000	15	15	<2	31	77	n/a	<100	<0.10	5.3	43	2.4	<1000	650	<1	<20	<1	0.26	-52.6
P13-42	11/9/2016	360	600	20	20	0.33	n/a	n/a	120	75	n/a	11000	13	13	n/a	25	71	n/a	<100	<0.10	4.5	33	36	<1000	540	n/a	n/a	<1	0.37	-92.9
P13-42	4/26/2017	490	570	25	25	0.4	n/a	n/a	150	51	n/a	<10000	14	14	n/a	30	81	n/a	<100	<0.10	5.1	49	6.9	<1000	610	n/a	n/a	<1	0.48	-84.8
P13-42	11/7/2017	460	550	24	24	0.35	n/a	n/a	130	35	n/a	10000	13	13	n/a	27	75	76	<100	<0.10	4.7	38	1.5	<1000	510	n/a	n/a	<1	0.37	-38.7
P13-42	5/24/2018	570	770	25	26	0.38	n/a	n/a	150	42	n/a	<10000	16	16	n/a	30	100	87	<100	<0.1	5.4	50	0.7	<1000	580	n/a	n/a	<1	0.36	-36.6
P13-42	10/24/2018	400	820	15	15	0.31	n/a	n/a	130	73.7	n/a	<10000	13	13	n/a	25	80	80	<100	<0.1	4.7	37	34	<1000	540	n/a	n/a	<1	0.42	-57.3
P13-42	6/11/2019	420	1000	20	21	0.3	n/a	n/a	120	27	n/a	7800	12	12	n/a	24	70	80	<100	<0.1	4.5	37	10	<1000	480	n/a	n/a	<1	0.12	-69.9
P13-42	12/9/2019	490	690	24	24	0.34	<1	<1	140	30	<1	8400	14	14	<2	28	90	90	<100	<0.1	4.8	32	6.9	n/a	580	<2	<20	<1	0.28	60.6
P13-42	4/16/2020	510	1100	22	23	0.34	n/a	n/a	140	43	n/a	10000	13	13	n/a	28	80	80	<100	<0.1	4.1	39	8.5	n/a	590	n/a	n/a	<1	0.28	22.6
P13-42	10/7/2020	470	560	21	19	0.29	n/a	n/a	120	33	n/a	9100	12	11	n/a	25	70	70	<100	<0.1	4.5	39	5.1	n/a	510	n/a	n/a	3.18	0.43	55.9
P13-42	6/2/2021	630	400	24	24	0.37	n/a	n/a	150	43	n/a	5200	11	11	n/a	30	80	90	<100	<0.1	5	44	6	n/a	580	n/a	n/a	1.42	1.33	48.6
P13-42	11/16/2021	450	510	27	24	0.38	n/a	n/a	140	46	n/a	<4500	15	14	n/a	29	80	80	<100	<0.1	4.9	52	<0.5	n/a	600	n/a	n/a	9.08	1.02	91.7
P13-42	6/21/2022	380	420	25	<2	0.39	n/a	n/a	150	41	n/a	18000	17	16	n/a	31	80	90	<100	<0.10	5.3	48	<0.5	n/a	580	n/a	n/a	9.29	0.35	-15.6
P13-42	12/7/2022	550	450	20	20	0.37	<1.0	<1.0	140	51	<1.0	23000	17	16	<2.0	30	90	80	<100.0	<0.10	5	42	0.9	n/a	680	<2.0	<20.0	3.85	0.33	64.6
P13-42	6/6/2023	580	1000	23	20	0.4	n/a	n/a	140	54	n/a	16000	17	16	n/a	30	80	80	<140	<0.10	5.3	51	2.3	n/a	610	n/a	n/a	11.64	0.43	230.5
P14-40	12/15/1994	688	790	22		0.43	n/a	<1	90.7	45	<2	26000	15.9		<5	67.2	150	n/a	<100		10	101	8	<2000	n/a	<80	<20	80		
P14-40	2/14/1995	705	580	19		0.44	n/a	<1	90.5	47	<2	27000	14.1		<5	64.7	160	n/a	<100		9.9	114	72	n/a	n/a	<80	<20	67		
P14-40	5/11/1995	748	780	19		0.43	n/a	<1	92.3	48	<2	31000	13.3		<5	61.9	120	n/a	<100		9.6	124	74	n/a	n/a	<80	<20	76		
P14-40	10/12/1995	680	620	33		0.46	n/a	<1	93.6	42	<2	31000	15.9		<5	70	110	n/a	<100		9.16	114	5	<1000	n/a	<100	<20	2.75		
P14-40	4/10/1996	896	1200	29		0.5	<10	<1	94.5	47	2	50000	14.2		<5	71.8	140	n/a	<100		12.9	212	32	n/a	1000	130	<20	2		
P14-40	10/22/1996	748	1490	27		0.5	<10	<1	93.3	43	<2	32000	13		<5	69.7	110	n/a	<100		10.7	130	<5	<1000	832	<100	<20	0.6		
P14-40	4/24/1997	828	1460	25		0.48	<10	<1	85.8	49	<2	49000	13		<5	72.2	120	n/a	<100		13.9	188	<5	n/a	1030	<100	<20	0.6		
P14-40	10/15/1997	688	1120	16		0.48	<10	<1	94	40	<2	29000	13.8		<5	69.5	120	n/a	<100		10.6	116	<5	1600	754	<100	<20	0.8		
P14-40	4/14/1998	787	1310	25		0.45	<10	<1	99	49	<2	22000	15.1		<5	71	120	n/a	170		9.48	135	<5	n/a	808	<100	<20	0.5		
P14-40	10/20/1998	637	880	22		0.48	<10	<1	99.3	39	<2	33000	14		<5	73.2	130	n/a	<100		10.5	142	<5	1600	1270	<100	<20	1		
P14-40	4/29/1999	772	580	26		0.42	<10	<1	93.9	41	<2	41000	13.5		<5	69.2	110	n/a	<100		11.1	140	<5	n/a	1340	100	<20	1.7		
P14-40	10/11/1999	707	670	15		0.42	<10	<1	98.7	34	<2	32000	16.5		<5	78.8	140	n/a	<100		9.72	106	<5	2400	1220	100	<20	1		
P14-40	4/18/2000	880	100	30		0.52	<10	<1	99.6	52	<2	58000	23.3		<5	71.3	120	n/a	<100		11.6	170	<5	n/a	1360	<100	<20	0.9		
P14-40	10/11/2000	865	280	30		0.47	<10	<1	98	55	<2	45000	16.1		<5	66.1	130	n/a	<100		11	164	4.5	2400	1450	<100	<20	0.6		
P14-40	4/19/2001	842	960	25		0.42	<10	<1	101	52	<2	48000	14.3		<5	76.4	100	n/a	<100		10.8	186	3	n/a	1440	<100	<20	0.6		
P14-40	10/17/2001	885	680	20		0.47	<10	1	102	44	<2	46000	15.4		<5	73.9	140	n/a	<100		13.4	193	2	4400	1660	<100	30	1.1		
P14-40	4/16/2002	830	930	14		0.42	<10	<1	96.5	52	<2	46000	13.5		<5	69.5	110	n/a	<100		11.6	183	3	n/a	1488	<100	<20	0.6		
P14-40	10/14/2002	840	540	16		0.44	<10	<1	105	44	<2	44000	14		<5	72.3	140	n/a	<100		11	175	6.2	4000	1570	<100	<20	3.85		
P14-40	4/23/2003	830	750	20		0.38	<10	<1	95.1	53	<2	52000	9.76		<5	66.9	100	n/a	<100		10	180	3.9	n/a	1500	<100	<20	1.7		
P14-40	10/15/2003	880	840	18		0.4	<10	1	108	53	<2	44000	9		<5	72.4	100	n/a	<100		11	200	7.9	<1000	1572	<100	130	4.1		
P14-40	4/14/2004	810	840	16	n/a	0.4	<10	<1	97.8	53	<2	53000	9.4	n/a	<5	67.5	120	n/a	<100		11	200	0.72	n/a	1510	<100	20	3.63		
P14-40	10/21/2004	812	780	13	n/a	0.44	<10	<1	113	47	<2	39000	9.1	n/a	<5	78.5	130	n/a	<100		12.5	148	17	<1000	1424	<100	170	4.3		
P14-40	4/11/2005	866	810	37	34	0.44	<10	<1	103	56	2	46000	9.4	9.2	<5	75.7	120	n/a	<100		11	179	0.51	n/a	1544	<100	<20	1.47		

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P14-40	10/12/2005	876	950	15	13	0.48	<10	<1	115	48	<2	<5000	10.4	9.4	<5	77.7	150	n/a	<100		11	173	3.5	<1000	1470	<100	<20	15.5		
P14-40	12/8/2005	n/a	n/a	<200	13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9.7	11	n/a	n/a	130	n/a	n/a		n/a	144	n/a	n/a	n/a	n/a	n/a	n/a		
P14-40	5/15/2006	860	1200	20	15	0.41	<10	1	110	46	2	54000	8.8	8	<5	76	130	n/a	<100		10	170	2.8	n/a	1570	<100	60	49		
P14-40	11/10/2006	878	510	20	16	0.44	<10	<1	104	62	<2	8000	11	10	<5	70	150	n/a	<100		11	175	<0.5	<1000	970	<100	<20	29.24		
P14-40	6/11/2007	870	840	16	13	0.42	<10	<1	112	45	2	45000	8.7	7.6	<5	71	130	n/a	<100		13	182	1.2	n/a	940	<100	140	12.05	7.96	99
P14-40	10/24/2007	856	860	9	8	0.45	<10	<1	114	48	<2	<5000	7.9	7.2	<5	73	140	n/a	<100		11	160	12	<1000	900	<100	20	26.49	2.56	113
P14-40	6/6/2008	820	1100	16	20	0.39	<10	<1	97	30	<2	49000	8.8	9.6	<5	66	120	n/a	<100		12	187	<0.5	n/a	910	<100	<20	<0.1	1.36	85
P14-40	10/17/2008	930	610	13.5	12	0.44	<10	1	105	46	<2	41000	11	10	<5	71	160	n/a	<100		9.2	190	2.1	<1000	920	<100	20	23.59	0.67	-48
P14-40	5/20/2009	844	620	11	11	0.4	<10	1	101	53	<2	46000	6.8	6.9	<5	67	130	n/a	<100		10.1	185	1.1	n/a	990	<100	<20	0.95	0.36	-129
P14-40	12/1/2009	n/a	830	9	7	0.41	<10	<1	110	50	<2	43000	7	6.7	<5	70	150	n/a	<100		12	156	6.1	4000	900	<100	20	14.76	0.33	-149
P14-40	5/13/2010	n/a	550	14	13	0.44	<1	<1	110	53	<2	58000	7.9	8.2	<2	66	170	n/a	<100	<0.10	11.2	180	1.8	n/a	850	<2	50	35.1	0.5	-135
P14-40	11/17/2010	n/a	600	12	9	0.48	<10	<1	110	44	2	47000	11	9.7	<5	77	180	n/a	<100	<0.10	12	190	3.7	3800	1000	<100	70	33	0.25	-117
P14-40	6/21/2011	n/a	550	21	n/a	0.44	<1	<1	106	48	2	51000	9.6	n/a	<2	65	160	n/a	<100	<0.10	12	200	<0.5	n/a	1020	<1	<20	1.3	0.48	-139.7
P14-40	12/1/2011	n/a	460	9	10	0.4	<1	<1	99	49	<2	48000	7.8	7.6	<2	61	150	n/a	<100	<0.10	12	180	8.6	3600	960	<2	<20	<1	0.22	-115.7
P14-40	5/9/2012	n/a	420	12	13	0.44	<1	<1	110	54	1	56000	8.8	8	<2	74	180	170	<100	<0.10	13	190	2.3	n/a	920	<1	<20	<1	0.29	-140.7
P14-40	10/16/2012	n/a	480	9	8	0.43	<1	<1	98	43	<2	51000	9.3	9.3	<2	65	170	170	<100	<0.10	12	150	2.5	1700	900	<2	<20	13.34	0.22	-106.9
P14-40	5/15/2013	n/a	750	13	10	0.4	<1	<1	100	48	2	52000	8.4	7.3	3	62	180	170	<100	<0.10	10	140	<0.5	n/a	770	<1	80	39.35	0.31	-96.4
P14-40	11/5/2013	746	760	10	6	0.42	n/a	n/a	100	43	n/a	51000	11	8.6	n/a	65	190	n/a	<100	<0.10	10	150	2.2	1000	860	n/a	n/a	41.95	0.32	-318.2
P14-40	4/24/2014	850	880	16	12	0.4	n/a	n/a	100	50	n/a	56000	9.8	8.7	n/a	63	190	n/a	<100	<0.1	11	170	0.5	<1000	990	n/a	n/a	34.12	0.23	-101.1
P14-40	10/9/2014	880	1100	8	7	0.42	n/a	n/a	110	43	n/a	41000	9.5	9.1	n/a	66	180	n/a	<100	<0.10	12	160	2.3	<1000	950	n/a	n/a	7.47	0.17	-102
P14-40	4/29/2015	880	960	15	11	0.45	n/a	n/a	110	51	n/a	48000	9.2	8	n/a	65	210	n/a	<100	<0.10	11	160	<0.5	<1000	970	n/a	n/a	32.2	0.24	-56.4
P14-40	10/22/2015	860	1000	9	8	0.39	n/a	n/a	100	46	n/a	51000	9.4	8.6	n/a	65	200	n/a	<100	<0.10	10	160	1.8	<1000	940	n/a	n/a	15.22	0.27	-80.3
P14-40	5/4/2016	860	1100	12	11	0.37	<1	<1	110	51	1	52000	7.5	7.3	<2	62	170	n/a	<100	<0.10	10	160	0.7	<1000	930	<1	<20	5.49	0.29	-93.5
P14-40	11/9/2016	780	1400	6	5	0.4	n/a	n/a	100	48	n/a	42000	7.5	7.6	n/a	63	170	n/a	<100	<0.10	9.9	140	2.3	<1000	890	n/a	n/a	5.59	0.38	-109
P14-40	4/13/2017	830	2300	14	12	0.41	n/a	n/a	110	51	n/a	49000	9.7	9.4	n/a	65	220	n/a	<100	<0.10	12	180	<0.5	<1000	970	n/a	n/a	15.25	0.31	-105.8
P14-40	10/26/2017	770	1400	10	7	0.38	n/a	n/a	100	39	n/a	44000	9.7	8.4	n/a	62	210	190	<100	<0.10	10	150	0.6	1800	850	n/a	n/a	25.5	0.34	-63.8
P14-40	5/24/2018	860	2400	18	14	0.38	n/a	n/a	100	54	n/a	49000	11	10	n/a	62	190	190	<100	<0.1	12	170	0.5	<1000	890	n/a	n/a	28.76	0.36	-67.2
P14-40	10/10/2018	790	1900	13	9	0.37	n/a	n/a	100	51	n/a	53000	9.1	8.5	n/a	61	180	170	<100	<0.1	11	160	<0.5	<1000	900	n/a	n/a	21.36	0.27	-71
P14-40	6/27/2019	830	3000	13	9	0.36	n/a	n/a	100	49	n/a	14000	7.3	6.2	n/a	60	160	150	<100	<0.1	12	170	21	<1000	950	n/a	n/a	16.26	0.18	-72
P14-40	12/11/2019	810	1500	7	4	0.37	<1	<1	110	41	1	39000	6	5.5	<2	62	150	160	<100	<0.1	9.2	150	13	n/a	940	<2	<20	13.21	0.36	142.5
P14-40	4/16/2020	830	2700	8	6	0.35	n/a	n/a	100	42	n/a	45000	5.8	4.9	n/a	60	160	150	<100	<0.1	9.7	150	0.6	n/a	880	n/a	n/a	13.88	0.36	24.3
P14-40	6/7/2021	930	1000	32	29	0.37	n/a	n/a	100	38	n/a	46000	3.2	1.8	n/a	58	150	140	<100	<0.1	11	130	19	n/a	850	n/a	n/a	25.98	1.02	99.9
P14-40	11/16/2021	640	930	9	5	0.32	n/a	n/a	100	35	n/a	37000	5.3	4.2	n/a	55	180	170	<100	<0.1	7.5	120	7.8	n/a	770	n/a	n/a	23.72	1.6	94.9
P14-40	6/23/2022	810	1400	6	5	0.34	n/a	n/a	110	40	n/a	50000	5.9	5.4	n/a	59	220	210	<100	<0.10	9.7	140	0.6	n/a	850	n/a	n/a	7.88	0.24	42.2
P14-40	12/13/2022	760	970	7	4	0.35	<1.0	<1.0	110	31	1	45000	5.8	4.9	<2.0	58	210	200	<100.0	<0.10	8.9	120	15	n/a	850	<2.0	30	18.31	0.55	45.7
P14-40	6/7/2023	790	1400	3	2	0.31	n/a	n/a	110	39	n/a	52000	4	3.8	n/a	54	180	170	<140	<0.10	6.9	120	1.5	n/a	820	n/a	n/a	<1	0.3	-137.5
P15-35	12/15/1994	338	<100	<1		0.13	n/a	<1	115	31	4	<5000	5.17		5	43.3	480	n/a	<100		2.74	14.7	100	<1000	n/a	<80	<20	55		
P15-35	2/15/1995	324	<100	<1		0.11	n/a	<1	110	37	<2	<5000	2.54		<5	40.1	380	n/a	<100		2.82	17.5	139	n/a	n/a	<80	20	25		
P15-35	5/11/1995	336	<100	<1		0.13	n/a	<1	111	34	<2	<5000	3.41		<5	38.6	400	n/a	<100		2.94	16.8	93	n/a	n/a	<80	<20	39		
P15-35	10/12/1995	285	<100	<2		0.16	n/a	<1	115	34	<2	<5000	3.66		<5	44.5	330	n/a	<100		2.82	18.3	115	<1000	n/a	<100	<20	26.5		
P15-35	4/9/1996	360	<100	<2		0.14	<10	<1	117	32	<2	<5000	1.84		<5	45	320	n/a	<100		2.91	18.4	94	n/a	572	<100	<20	4.5		
P15-35	10/22/1996	340	140	<2		0.15	<10	<1	123	33	<2	<5000	2.67		<5	42.9	290	n/a	<100		2.61	19.8	124	<1000	560	<100	<20	4.6		
P15-35	4/23/1997	356	<100	<2		0.15	<10	<1	124	36	<2	<5000	2.94		<5	43.5	300	n/a	<100		3.37	19.9	131	n/a	576	<100	<20	4.4		
P15-35	10/13/1997	330	<100	<2		0.15	<10	<1	116	37	<2	<5000	2.72		<5	41.9	280	n/a	<100		2.97	20.3	137	<1000	556	<100	<20	3.4		
P15-35	4/14/1998	322	<100	<2		0.1	<10	<1	113	35	<2	<5000	1.92		<5	39.6	290	n/a	<100		2.66	18	115	n/a	520	<100	<20	3.9		
P15-35	10/20/1998	301	<100	<2		0.13	<10	<1	113	33	<2	<5000	2.84		<5	41.9	280	n/a	<100		2.61	19.8	154	<1000	628	<100	<20	3.9		
P15-35	4/29/1999	329	<100	<2		0.14	<10	<1	117	30	<2	<5000	2.89		<5	43.6	290	n/a	<100		2.76	21.5	106	n/a	748	<100	<20	3.8		
P15-35	10/11/1999	316	<100	<2		0.12	<10	<1	111	32	<2	<5000	2.76		<5	39.8	270	n/a	<100		2.7	19.7	156	<1000	732	<100	<20	1.8		
P15-35	4/18/2000	326	<100	8		0.13	<10	<1	114	33	2	<5000	2.77		<5	39.5	810	n/a	<100		4.3	18.2	125	n/a	692	<100	<20	4.95		
P15-35	10/11/2000	316	<100	7		0.12	<10	<1	108	36	<2	<5000	3.32		<5	39.2	390	n/a	<100		2.57	17.9	141	2200	676	<100	<20	3.9		
P15-35	4/19/2001	340	<100	4		0.17	<10	<1	125	31	8	<5000	8.28		5	48.1	360	n/a	<100		4.93	19.7	103	n/a	684	<100	<20	4.99		
P15-35	10/17/2001	323	220	3		0.1	<10	<1	116	29	<2	<5000	4.42		<5	42.7	720	n/a	<100		3.29	17.8	112	<1000	672	<100	<20	4.8		
P15-35	4/16/2002	331	160	2		0.1	<10	<1	116	29	<2	<5000	4.98		<5	43.1	460	n/a	<100		2.59	18.8	114	n/a	696	<100	<20	4.7		
P15-35	10/14/2002	310	<100	2		0.11	<10	<1	114	29	<2	<5000	<5		<5	40.8	340	n/a	<100		2.3	17.9	120	<1000	680	<100	<20	4.93		

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P15-35	4/24/2003	340	<100	2		0.11	<10	<1	112	30	<2	<5000	4.49		<5	41.7	330	n/a	<100		2.5	18.5	120	n/a	640	<100	<20	4.8		
P15-35	10/16/2003	332	<100	2		0.11	<10	<1	113	31	<2	<5000	4.8		<5	41.5	320	n/a	<100		2.8	19.9	120	<1000	736	<100	<20	4.6		
P15-35	4/19/2004	344	260	8	7	0.13	<10	<1	116	37	<2	<5000	5.3	4.1	<5	42.3	960	n/a	<100		5.3	18.9	120	n/a	708	<100	<20	4.4		
P15-35	11/1/2004	304	180	4	n/a	0.11	<10	<1	117	44	<2	<5000	5.1	n/a	<5	43.7	630	n/a	<100		3.7	19.6	120	<1000	540	<100	<20	4.8		
P15-35	4/14/2005	222	220	4	4	0.09	<10	<1	74	22	<2	<5000	2.1	0.77	<5	30.5	760	n/a	<100		4.2	9.4	60	n/a	468	<100	<20	57.5		
P15-35	10/19/2005	309	530	4	4	0.11	<10	<1	105	46	<2	<5000	5.1	4.3	<5	38.7	920	n/a	<100		3.6	21.7	130	<1000	532	<100	<20	4.9		
P15-35	12/8/2005	n/a	n/a	<200	4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.3	4.9	n/a	n/a	930	n/a	n/a		n/a	25.2	n/a	n/a	n/a	n/a	n/a	n/a		
P15-35	4/26/2006	310	300	<2	<2	0.1	<10	<1	111	40	<2	<5000	5.9	4.3	<5	43	810	n/a	<100		3.3	26	110	n/a	560	<100	<20	416		
P15-35	11/10/2006	248	380	7	7	0.1	<10	<1	89	26	<2	12000	4.1	2.1	<5	27	990	n/a	<100		5.9	11	72	<1000	390	<100	<20	29.16		
P15-35	6/11/2007	300	280	3	3	0.12	<10	<1	114	40	2	<5000	7.6	4.9	<5	37	840	n/a	<100		5.6	23	96	n/a	500	<100	<20	76.48	2.71	75
P15-35	10/24/2007	304	560	4	4	0.11	<10	<1	114	43	<2	<5000	7.4	5.9	<5	36	750	n/a	<100		4.5	24	120	<1000	480	<100	<20	63.82	1.71	135
P15-35	10/14/2008	300	560	7	<5	0.11	<10	1	107	32	7	7000	4	3.2	8	32	1200	n/a	<100		4.5	14	77	<1000	450	<100	<20	82.48	0.4	-19
P15-35	5/12/2009	330	510	4	3	0.11	<10	<1	113	42	<2	10000	5.8	4.2	<5	35	940	n/a	<100		4.1	21	109	n/a	480	<100	<20	34.81	1.76	-135
P15-35	12/8/2009	310	710	4	3	0.11	<10	<1	114	45	2	<5000	8.3	5.6	<5	38	800	n/a	<100		3.7	24	117	1200	490	<100	<20	134.9	3.01	-144
P15-35	5/5/2010	n/a	470	4	3	0.11	<1	<1	100	46	<2	<10000	5.8	5	<2	33	740	n/a	<100	<0.10	3.6	24	140	n/a	480	<2	<20	49.9	1.2	-133
P15-35	11/11/2010	n/a	630	6	3	0.13	<10	<1	110	43	7	<10000	11	4.7	6	39	920	n/a	<100	<0.10	4.3	27	110	<1000	470	<100	50	44.72	0.42	-122
P15-35	6/21/2011	n/a	270	4	3	0.1	<1	<1	100	37	1	<10000	1.5	0.78	<2	30	800	n/a	<100	<0.10	4.1	17	91	n/a	500	<1	<20	26.22	0.21	-156.3
P15-35	12/8/2011	n/a	330	4	4	0.11	<1	<1	112	44	<2	<10000	3.9	2.9	<2	36	850	n/a	<100	<0.10	4.2	26	120	1200	520	<2	<20	27.7	0.12	-136.5
P15-35	5/30/2012	n/a	160	3	3	0.11	<1	<1	98	49	<1	<10000	2.7	2.3	<2	41	730	710	<100	<0.10	3	29	130	n/a	500	<1	<20	12.6	0.16	-106.9
P15-35	10/25/2012	n/a	280	2	2	0.11	<1	<1	94	51	<2	<10000	3.3	3.1	<2	38	620	620	<100	<0.10	2.9	25	140	<1000	520	<2	<20	14.25	0.18	-243.7
P15-35	5/15/2013	n/a	<100	2	2	0.12	<1	<1	95	50	<1	<10000	2.8	2.3	<2	37	620	590	<100	<0.10	3.1	25	140	n/a	470	<1	<20	17.02	0.21	-288.8
P15-35	11/6/2013	300	120	2	2	0.12	n/a	n/a	92	49	n/a	<10000	4.6	3.6	n/a	38	510	n/a	<100	<0.10	2.8	26	140	<1000	500	n/a	n/a	22.38	0.47	-118.8
P15-35	4/23/2014	260	130	2	1	0.12	n/a	n/a	99	47	n/a	<10000	3.7	2.3	n/a	42	550	n/a	<100	<0.1	3.1	31	140	<1000	530	n/a	n/a	22.7	2.23	-59.4
P15-35	10/22/2014	270	240	2	1	0.13	n/a	n/a	100	47	n/a	<10000	4.6	3.4	n/a	41	450	n/a	<100	<0.10	2.8	30	130	<1000	550	n/a	n/a	26.81	0.21	-109.7
P15-35	4/29/2015	270	130	1	1	0.12	n/a	n/a	93	45	n/a	<10000	3.3	2.6	n/a	37	410	n/a	<100	<0.10	2.6	26	120	<1000	520	n/a	n/a	19.72	0.21	-97.3
P15-35	10/22/2015	270	260	1	1	0.12	n/a	n/a	90	48	n/a	<10000	3.9	3.5	n/a	39	380	n/a	<100	<0.10	2.6	29	130	<1000	530	n/a	n/a	9.12	0.2	-108.8
P15-35	5/18/2016	260	230	1	<1	0.13	<1	<1	97	51	<1	<10000	3.9	2.9	<2	38	340	n/a	<100	<0.10	3	27	130	<1000	540	<1	<20	22.48	0.31	-102.6
P15-35	11/8/2016	250	320	1	<1	0.13	n/a	n/a	92	52	n/a	<10000	3.9	3.6	n/a	38	360	n/a	<100	<0.10	2.7	29	140	<1000	540	n/a	n/a	9.18	0.34	-143.6
P15-35	5/17/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	133	n/a	n/a
P15-35	12/7/2017	300	560	5	4	0.12	n/a	n/a	100	53	n/a	<10000	4.5	3.9	n/a	38	740	720	<100	<0.10	4	30	120	<1000	530	n/a	n/a	10.68	0.29	-80.4
P15-35	6/26/2018	260	330	5	4	0.11	n/a	n/a	94	55	n/a	<10000	3.4	2.4	n/a	35	660	640	<100	<0.1	3.6	28	110	<1000	540	n/a	n/a	38.98	0.38	-88.3
P15-35	10/24/2018	290	570	4	3	0.11	n/a	n/a	95	50.8	n/a	<10000	4.1	2.7	n/a	35	660	630	<100	<0.1	3.8	30	100	<1000	500	n/a	n/a	42.33	0.26	-94.8
P15-35	6/27/2019	300	690	5	4	0.1	n/a	n/a	95	47	n/a	<4500	3.3	2.1	n/a	34	760	730	<100	<0.1	3.7	28	91	<1000	560	n/a	n/a	30.46	0.15	81.8
P15-35	12/11/2019	310	460	3	3	0.11	<1	<1	110	53	<1	<4500	4.3	3.3	<2	36	700	650	<100	<0.1	3.3	30	99	n/a	650	<2	<20	24.12	0.2	123.1
P15-35	4/16/2020	290	440	3	2	0.11	n/a	n/a	93	54	n/a	7100	4.1	2.4	n/a	37	630	620	<100	<0.1	3.1	31	110	n/a	600	n/a	n/a	41.87	0.8	14.5
P15-35	10/7/2020	270	1200	5	5	0.1	n/a	n/a	90	49	n/a	8800	3.8	2.7	n/a	32	750	750	<100	<0.1	4.3	22	87	n/a	540	n/a	n/a	30.89	0.23	-1.6
P15-35	6/28/2021	410	430	4	3	0.1	n/a	n/a	91	47	n/a	<4500	4.7	3.4	n/a	33	670	640	<100	<0.1	3.7	28	94	n/a	510	n/a	n/a	61.18	0.36	-17.2
P15-35	11/16/2021	250	370	3	2	0.09	n/a	n/a	86	49	n/a	<4500	3.9	3.1	n/a	33	540	540	<100	<0.1	3.2	34	110	n/a	490	n/a	n/a	16.09	0.29	16.09
P15-35	6/28/2022	270	270	4	3	0.1	n/a	n/a	85	36	n/a	17000	2.6	0.74	n/a	28	630	600	<100	<0.10	4.6	24	80	n/a	470	n/a	n/a	32.77	0.32	136.3
P15-35	12/14/2022	310	370	5	4	0.098	<1.0	<1.0	92	42	<1.0	17000	3	2.2	<2.0	33	670	670	<100.0	<0.10	3.9	29	100	n/a	560	<2.0	<20.0	23.05	0.37	-11.4
P15-35	6/6/2023	300	350	3	3	0.1	n/a	n/a	91	45	n/a	18000	3.2	2.3	n/a	33	630	610	<140	<0.10	3.6	32	110	n/a	520	n/a	n/a	20.47	0.42	277
P16-50	12/19/2007	290	<100	3	2	0.13	<10	<1	101	19	<2	<5000	2.5	1.1	<5	34	440	n/a	<100		2.9	9.6	60	<1000	340	<100	<20	42.32	1.68	129
P16-50	3/12/2008	300	<100	2	<2	0.12	<10	<1	94	17	<2	<5000	1.2	0.89	<5	31	390	n/a	<100		2.5	8.6	54	<1000	460	<100	n/a	10.76	5.25	201
P16-50	6/6/2008	270	<100	2	<2	0.13	<10	<1	90	17	<2	<5000	1.5	0.63	<5	34	380	n/a	<100		2.9	8.8	55	<1000	400	<100	n/a	34.67	0.93	155
P16-50	9/18/2008	290	<100	2.5	<2	0.13	<10	<1	96	18	<2	<5000	1.9	1.1	<5	31	390	n/a	<100		2.8	7.9	58	<1000	380	<100	<20	10.64	2.9	28
P16-50	10/22/2008	290	<100	<5	<5	0.13	<10	<1	100	18	<2	<5000	1.4	0.23	<5	32	400	n/a	<100		2.5	8.4	54	<1000	410	<100	<20	n/a	1.56	-42
P16-50	3/24/2009	330	<100	<2	<2	0.13	<10	<1	97	19	<2	<5000	0.92	<0.03	<5	32	170	n/a	<100		2.9	9	56	<1000	440	<2	<20	5.98	5.77	129
P16-50	5/20/2009	320	<100	<2	<2	0.13	<10	<1	102	21	<2	<5000	1.2	0.93	<5	36	330	n/a	<100		2.7	7.1	67	<1000	460	<2	<20	3.92	0.72	-9
P16-50	8/6/2009	n/a	<100	<2	<2	0.14	<10	<1	111	21	<2	<5000	1.19	1.12	<5	32.1	390	n/a	<100		2.3	5.6	68	<1000	480	<2	<20	0.76	0.38	-105
P16-50	11/23/2009	n/a	<100	<2	<2	0.11	<10	<1	106	20	<2	<5000	1.3	1.3	<5	35	400	n/a	<100		2.5	6.2	66	<1000	420	<2	<20	1.26	0.91	-100
P16-50	3/24/2010	n/a	<100	<2	<2	0.13	<10	<1	115	19	<2	<10000	1.1	0.76	<2	36	400	n/a	<100		2.6	6.7	59	<1000	410	<2	<20	4.39	2.64	126
P16-50	5/19/2010	n/a	<100	<2	<2	0.12	<1	<1	100	20	<2	<10000	1.4	0.24	<2	34	220	n/a	<100	<0.10	2.5	6.2	69	<1000	400	<2	<20	19.6	0.9	137
P16-50	7/27/2010	300	<100	<2	<2	0.11	<1	<1	100	22	<2	<10000	1.2	1.2	<2	34	390	n/a	<100	<0.10	2.5	6.2	70	<1000	310	<2	<20	0.51	1.87	-90
P16-50	11/2/2010	310	<100	2	1	0.11	<1	<1	100	19	<1	<10000	1.4	1.2	<2	35	390	n/a	<100	<0.10	2.5	6.3	64	<1000	390	<1	<20	1	0.41	-91
P16-50	3/8/2011	330	<100	2	2	0.12	<1	<1	110	19	<1	<10000	1.1	1	<2	37	390	n/a	<100	<0.10	2.6	6.5	58	<1000	400	<1	<20	0.35	0.46	-50
P16-50	6/14/2011	310	<100	1	<1	0.11	<1	<1	98	20	<1	<10000	0.62	0.45	<2	35	290	n/a	<100	<0.10	2.5	6.8	60	<1000	340	<1	<20	3.73	0.23	-73.1

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P16-50	9/20/2011	310	<100	2	2	0.112	<1	<1	110	20	<1	<10000	1.2	1.1	<2	34	350	n/a	<100	<0.10	2.4	6.6	60	<1000	410	<1	<20	1.89	0.16	-93.1
P16-50	11/10/2011	300	<100	2	2	0.099	<1	<1	95	17	<1	<10000	1.1	1.1	<2	31	330	n/a	<100	<0.10	2.4	7.1	56	2700	390	<1	<20	<1	0.2	-92
P16-50	3/20/2012	300	<100	2	2	0.1	<1	<1	96	20	<1	<10000	1.1	1	<2	32	320	370	<100	<0.10	2.5	7.4	57	<1000	410	<1	<20	<1	0.34	11
P16-50	5/23/2012	300	<100	1	1	0.11	<1	<1	97	21	<1	<10000	0.97	0.95	<2	37	360	350	<100	<0.10	2.4	6.9	57	<1000	340	<1	<20	1.15	0.29	-42.9
P16-50	7/26/2012	310	<100	2	2	0.11	<1	<1	96	19	<1	<10000	1.4	1	<2	37	380	360	<100	<0.10	2.5	7.2	64	<1000	320	<1	<20	1.05	0.23	-73.5
P16-50	10/9/2012	310	<100	2	2	0.11	<1	<1	100	18	<1	<10000	1.1	1.1	<2	35	360	350	<100	<0.10	2.5	5.9	64	<1000	470	<1	<20	<1	0.26	-46.6
P16-50	4/10/2013	300	<100	2	1	0.1	<1	<1	87	19	<1	<10000	1.2	0.89	<2	30	320	330	<100	<0.10	2.4	6	60	<1000	410	<1	<20	2.86	0.29	-11.3
P16-50	10/8/2013	290	<100	2	1	0.099	<1	<1	82	19	<1	<10000	1.5	0.95	<2	29	300	290	<100	<0.10	2.2	6.1	51	<1000	370	<1	<20	5.25	0.51	-63.1
P16-50	4/16/2014	290	<100	4	1	0.11	n/a	n/a	89	19	n/a	<10000	2.4	0.56	n/a	31	270	n/a	<100	<0.10	2.5	6.6	58	<1000	400	n/a	n/a	23.45	0.64	-28.3
P16-50	10/21/2014	300	<100	5	2	0.1	n/a	n/a	95	18	n/a	<10000	3.8	1.1	n/a	34	370	n/a	<100	<0.10	2.6	6.8	58	<1000	410	n/a	n/a	25.45	0.32	-34.2
P16-50	4/15/2015	330	<100	3	2	0.11	n/a	n/a	95	17	n/a	<10000	2.2	1.1	n/a	34	370	n/a	<100	<0.10	2.5	5.7	62	<1000	440	n/a	n/a	8.97	0.28	-32.6
P16-50	10/13/2015	300	<100	5	2	0.1	n/a	n/a	91	19	n/a	<10000	3.7	1.1	n/a	34	360	n/a	<100	<0.10	2.4	6.6	53	<1000	390	n/a	n/a	19.04	0.3	-19.4
P16-50	4/19/2016	320	<100	3	2	0.11	<1	<1	99	18	<1	<10000	2.4	0.96	<2	36	360	n/a	<100	<0.10	2.5	6.9	60	<1000	450	<1	<20	14.13	0.93	-31.6
P16-50	11/16/2016	310	<100	7	2	0.12	n/a	n/a	98	18	n/a	<10000	4.2	1.3	n/a	35	420	n/a	<100	<0.10	2.5	7.2	64	<1000	420	n/a	n/a	24.16	0.5	-88.9
P16-50	4/13/2017	330	<200	4	2	0.11	n/a	n/a	110	18	n/a	<10000	2.9	1.1	n/a	38	430	n/a	<100	<0.10	2.4	6.9	63	<1000	440	n/a	n/a	13.96	0.39	-73
P16-50	10/25/2017	250	<100	6	1	0.11	n/a	n/a	95	18	n/a	<10000	3.7	0.75	n/a	34	410	380	<100	<0.10	2.4	7.6	58	<1000	420	n/a	n/a	19.86	0.32	-34.3
P16-50	5/2/2018	320	<200	4	1	0.11	n/a	n/a	96	18	n/a	<10000	2.5	0.8	n/a	35	420	380	<100	<0.1	2.3	7.7	55	<1000	430	n/a	n/a	12.64	0.52	14.3
P16-50	10/9/2018	280	<200	7	<2	0.11	n/a	n/a	94	20	n/a	<10000	4.5	1.3	n/a	34	450	380	<100	<0.1	2.4	8.8	52	<1000	420	n/a	n/a	10.18	0.37	-9.6
P16-50	6/11/2019	320	150	6	<2	0.11	n/a	n/a	95	19	n/a	<4500	3.4	0.49	n/a	33	480	350	<100	<0.1	2.3	8.6	51	<1000	460	n/a	n/a	25.16	0.41	221
P16-50	12/9/2019	330	94	5	<2	0.12	<1	<1	100	18	<1	4500	3	1.3	<2	36	450	430	<100	<0.1	2.4	7.4	64	n/a	460	<2	<20	14.88	0.31	130.6
P16-50	4/14/2020	360	140	3	<2	0.11	n/a	n/a	100	17	n/a	<4500	2.4	1.2	n/a	37	450	440	<100	<0.1	2.2	7.3	59	n/a	450	n/a	n/a	9.31	0.82	126.3
P16-50	10/6/2020	350	200	4	<2	0.11	n/a	n/a	102	17	n/a	<4500	3	1.2	n/a	37	460	430	<100	<0.1	2.5	7.6	54	n/a	450	n/a	n/a	16.45	0.71	240.6
P16-50	6/2/2021	420	66	4	<2	0.11	n/a	n/a	100	17	n/a	<4500	2.6	0.97	n/a	36	440	360	<100	<0.1	2.3	6.7	55	n/a	480	n/a	n/a	14.6	1.14	126
P16-50	11/15/2021	270	<20	5	<2	0.12	n/a	n/a	100	20	n/a	<4500	3.6	1.4	n/a	36	460	450	<100	<0.1	2.1	7.1	63	n/a	590	n/a	n/a	13.93	0.5	202.8
P16-50	6/21/2022	360	57	4	<2	0.12	n/a	n/a	100	19	n/a	9400	2.5	0.64	n/a	35	560	390	<100	<0.10	2.3	7.3	47	n/a	380	n/a	n/a	13.96	0.37	160.3
P16-50	12/7/2022	380	<20.0	3	<2.0	0.12	<1.0	<1.0	100	20	<1.0	12000	2	1.3	<2.0	36	470	450	<100.0	<0.10	2.2	7.8	56	n/a	450	<2.0	<20.0	6.64	0.5	214.8
P16-50	5/24/2023	360	33	4	<2	0.12	n/a	n/a	110	19	n/a	<30000	2.3	1.2	n/a	38	470	450	<0.10	<0.10	2.2	7.6	57	n/a	490	n/a	n/a	7.7	0.74	356.1
P17-50	12/19/2007	290	<100	2	<2	0.1	<10	<1	91	21	<2	<5000	0.38	0.3	<5	39	740	n/a	<100		3	13	62	<1000	350	<100	<20	2.16	1.52	132
P17-50	3/12/2008	330	<100	<2	<2	0.11	<10	<1	96	20	<2	<5000	0.51	0.32	<5	40	750	n/a	<100		3	13	60	<1000	490	<100	<20	0.07	2.07	196
P17-50	6/6/2008	360	<100	<2	<2	0.11	<10	<1	105	18	<2	<5000	0.39	0.34	<5	45	720	n/a	<100		3.2	11	64	<1000	480	<100	<20	0.01	1.03	121
P17-50	9/18/2008	360	<100	<2	<2	0.12	<10	<1	109	20	<2	<5000	0.82	0.31	<5	48	670	n/a	<100		3.1	11	68	<1000	440	<100	<20	6.47	2.08	15
P17-50	10/22/2008	330	<100	<5	<5	0.11	<10	<1	101	20	<2	<5000	0.65	<0.03	<5	44	820	n/a	<100		3	11	64	<1000	470	<100	<20	n/a	6.49	-54
P17-50	3/24/2009	330	<100	<2	<2	0.12	<10	<1	95	23	<2	<5000	0.59	0.43	<5	44	790	n/a	<100		3.6	16	76	<1000	370	<2	<20	0.69	0.44	-10
P17-50	5/20/2009	338	<100	<2	<2	0.12	<10	<1	99	24	<2	<5000	0.51	0.41	<5	45	420	n/a	<100		3.5	16	75	<1000	470	<2	<20	1.31	1.95	85
P17-50	8/6/2009	n/a	<100	2	<2	0.15	<10	<1	112	22	<2	<5000	0.9	0.49	<5	35.8	670	n/a	<100		2.8	12.5	83	<1000	450	<2	<20	0.01	0.27	-103
P17-50	11/23/2009	n/a	<100	<2	<2	0.12	<10	<1	111	20	<2	<5000	1	0.53	<5	43	790	n/a	<100		3.5	15	82	<1000	460	<2	<20	6.88	1.53	-113
P17-50	3/24/2010	n/a	<100	<2	<2	0.12	<10	<1	123	18	<2	<10000	0.46	0.25	<2	41	490	n/a	<100		3.7	15	66	<1000	460	<2	n/a	3.86	4.95	62
P17-50	5/19/2010	n/a	<100	<2	<2	0.12	<1	<1	100	19	<2	<10000	0.59	0.22	<2	41	430	n/a	<100	<0.10	3.5	13	64	<1000	420	<2	<20	7.5	2.6	38
P17-50	7/27/2010	370	<100	2	<2	0.13	<1	<1	120	22	<2	<10000	0.72	0.47	<2	44	950	n/a	<100	<0.10	3.6	14	72	<1000	360	<2	<20	3.17	0.37	-78
P17-50	11/2/2010	310	<100	2	2	0.13	<1	<1	110	17	<1	<10000	1.1	0.65	<2	43	810	n/a	<100	<0.10	3.5	12	64	<1000	440	<1	<20	4	0.46	-98
P17-50	3/8/2011	360	<100	2	1	0.12	<1	<1	100	18	<1	<10000	0.49	0.39	<2	41	660	n/a	<100	<0.10	3.5	12	61	<1000	410	<1	<20	1.32	2.42	-40
P17-50	6/14/2011	350	<100	2	1	0.12	<1	<1	100	19	<1	<10000	0.64	0.44	<2	42	850	n/a	<100	<0.10	3.3	10	60	1100	400	<1	<20	1.79	0.2	-85.8
P17-50	9/20/2011	340	<100	2	2	0.116	<1	<1	110	18	<1	<10000	0.65	0.66	<2	38	790	n/a	<100	<0.10	3.2	9.1	59	<1000	410	<1	<20	<1	0.15	-86.8
P17-50	11/10/2011	330	<100	2	2	0.12	<1	<1	100	15	<1	<10000	0.7	0.55	<2	38	760	n/a	<100	<0.10	3.2	9.6	47	1900	400	<1	<20	<1	0.15	-76.3
P17-50	3/20/2012	350	<100	2	2	0.12	<1	<1	110	21	<1	<10000	0.62	0.6	<2	40	790	820	<100	<0.10	3.3	11	61	<1000	450	<1	<20	<1	0.23	10.3
P17-50	5/23/2012	340	<100	2	2	0.14	<1	<1	100	20	<1	<10000	0.69	0.66	<2	41	860	840	<100	<0.10	3.3	12	60	<1000	370	<1	<20	<1	0.3	-43.7
P17-50	7/26/2012	340	<100	2	2	0.13	<1	<1	101	20	<1	<10000	0.73	0.68	<2	41	900	810	<100	<0.10	3.5	12	68	<1000	350	<1	<20	<1	0.28	-67.2
P17-50	10/9/2012	360	<100	2	2	0.14	<1	<1	110	20	<1	<10000	0.73	0.71	<2	36	790	840	<100	<0.10	3.5	9.9	69	<1000	490	<1	<20	<1	0.21	-45.5
P17-50	4/10/2013	338	<100	2	2	0.14	<1	<1	97	20	<1	<10000	0.73	0.61	<2	35	790	770	<100	<0.10	3	9.6	67	<1000	420	<1	<20	3.04	0.25	-368.2
P17-50	10/8/2013	340	<100	2	2	0.13	<1	<1	93	20	<1	<10000	0.8	0.69	<2	34	710	770	<100	<0.10	3	8.6	65	<1000	410	<1	<20	1.36	1.01	-55.3
P17-50	4/16/2014	350	<100	2	2	0.13	n/a	n/a	99	20	n/a	<10000	0.9	0.81	n/a	38	770	n/a	<100	<0.10	3	7	64	<1000	460	n/a	n/a	2.6	0.3	-60.4
P17-50	10/21/2014	360	<100	3	2	0.14	n/a	n/a	100	19	n/a	<10000	1.8	1	n/a	41	850	n/a	<100	<0.10	3.1	7.8	63	<1000	480	n/a	n/a	6.23	0.29	-42
P17-50	4/15/2015	370	<100	3	2	0.14	n/a	n/a	100	20	n/a	<10000	1.3	0.93	n/a	40	750	n/a	<100	<0.10	3	6.6	62	<1000	490	n/a	n/a	2.72	0.23	-44.4
P17-50	10/13/2015	350	<100	3	2	0.14	n/a	n/a	98	19	n/a	<10000	2	1.1	n/a	41	720	n/a	<100	<0.10	2.9	6.7	62	<1000	430	n/a	n/a	11	0.34	-36

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P17-50	4/19/2016	350	<100	3	2	0.16	<1	<1	110	19	<1	<10000	1.9	1.3	<2	45	650	n/a	<100	<0.10	2.9	6.3	60	<1000	470	<1	<20	8.78	0.52	-57.9
P17-50	11/16/2016	340	<100	3	2	0.16	n/a	n/a	110	20	n/a	<10000	1.7	1.4	n/a	44	660	n/a	<100	<0.10	2.9	6.5	61	n/a	460	n/a	n/a	5.8	0.45	-75.1
P17-50	4/13/2017	350	<200	2	2	0.15	n/a	n/a	100	20	n/a	<10000	1.5	1.3	n/a	41	580	n/a	<100	<0.10	2.7	5.8	62	<1000	460	n/a	n/a	1.55	0.34	-85.8
P17-50	10/25/2017	300	<100	3	2	0.15	n/a	n/a	97	18	n/a	<10000	1.9	1.4	n/a	41	570	530	<100	<0.10	2.7	5.7	60	<1000	450	n/a	n/a	5.7	0.34	-41.7
P17-50	5/2/2018	350	<200	2	2	0.16	n/a	n/a	99	18	n/a	10000	2	1.7	n/a	42	510	510	<100	<0.1	2.5	5.5	55	<1000	450	n/a	n/a	2.76	0.36	-39.1
P17-50	10/9/2018	320	<200	3	2	0.16	n/a	n/a	99	19	n/a	<10000	2.2	1.7	n/a	42	480	460	<100	<0.1	2.6	5.8	56	<1000	450	n/a	n/a	4.88	0.36	-34.4
P17-50	6/12/2019	340	80	3	2	0.17	n/a	n/a	100	18	n/a	<4500	2.9	1.8	n/a	40	480	420	<100	<0.1	2.5	5.9	52	<1000	490	n/a	n/a	12.64	0.59	70.3
P17-50	12/9/2019	370	89	2	3	0.18	<1	<1	100	17	<1	5800	1.9	2.8	<2	40	420	420	<100	<0.1	2.6	5.5	57	n/a	450	<2	<20	5.79	0.32	101.2
P17-50	4/14/2020	350	90	2	2	0.18	n/a	n/a	95	16	n/a	<4500	2.1	1.8	n/a	39	400	420	<100	<0.1	2.5	5.6	55	n/a	480	n/a	n/a	1.3	1.8	80.8
P17-50	10/6/2020	340	140	3	2	0.19	n/a	n/a	97	18	n/a	<4500	2.8	1.8	n/a	38	370	350	<100	<0.1	2.6	6	57	n/a	500	n/a	n/a	5.16	0.6	200.1
P17-50	6/7/2021	430	<20	2	2	0.2	n/a	n/a	100	18	n/a	<4500	2.5	2.2	n/a	38	360	350	<100	<0.1	2.6	5.1	55	n/a	460	n/a	n/a	1.43	0.5	43.5
P17-50	11/15/2021	330	45	3	2	0.2	n/a	n/a	100	18	n/a	<4500	2.4	1.9	n/a	39	380	370	<100	<0.1	2.5	5.6	56	n/a	760	n/a	n/a	1.57	0.54	171.1
P17-50	6/23/2022	350	<20	3	2	0.2	n/a	n/a	110	17	n/a	6500	2.6	1.9	n/a	40	400	370	<100	<0.10	2.8	6.2	54	n/a	450	n/a	n/a	7.45	0.47	89.3
P17-50	12/7/2022	370	73	4	2	0.21	<1.0	<1.0	110	19	<1.0	13000	3.1	2	<2.0	40	380	360	<100.0	<0.10	2.6	5.8	59	n/a	500	<2.0	<20.0	6.31	0.46	147.9
P17-50	5/24/2023	390	64	3	3	0.2	n/a	n/a	110	19	n/a	<30000	2.4	2.2	n/a	40	370	360	<100	<0.10	2.7	5.7	60	n/a	490	n/a	n/a	<1	0.49	310.8
P18-50	12/20/2007	n/a	n/a	3	2	n/a	n/a	n/a	n/a	19	n/a	<5000	1.4	1.4	n/a	n/a	310	n/a	n/a		n/a	17	n/a	n/a	390	n/a	n/a	2.12	2.76	98
P18-50	3/12/2008	n/a	n/a	2	2	n/a	n/a	n/a	n/a	19	n/a	<5000	1.2	1.1	n/a	n/a	260	n/a	n/a		n/a	16	n/a	n/a	500	n/a	<20	0.27	2.07	203
P18-50	6/5/2008	n/a	n/a	6	<2	n/a	n/a	n/a	n/a	21	n/a	<5000	4.6	0.36	n/a	n/a	450	n/a	n/a		n/a	16	n/a	n/a	430	n/a	n/a	37.27	1.48	84
P18-50	9/18/2008	310	n/a	2.8	<2	0.11	n/a	n/a	n/a	32	n/a	<5000	2.9	1.4	n/a	30	290	n/a	n/a		n/a	16	86	n/a	460	n/a	n/a	7.14	3.23	-2
P18-50	10/21/2008	300	n/a	<2	<2	0.11	n/a	n/a	n/a	30	n/a	<5000	1.7	1.3	n/a	30	280	n/a	n/a		n/a	16	80	n/a	440	n/a	n/a	n/a	1.94	-70
P18-50	3/24/2009	330	n/a	<2	<2	0.1	n/a	n/a	n/a	26	n/a	<5000	1.1	0.97	n/a	29	200	n/a	n/a		n/a	16	77	n/a	560	n/a	n/a	3.26	0.53	-17
P18-50	5/28/2009	320	n/a	<2	<2	0.09	n/a	n/a	n/a	28	n/a	<5000	1.3	0.75	n/a	28	170	n/a	n/a		n/a	15	82	n/a	440	n/a	n/a	1.94	2.1	1
P18-50	8/6/2009	n/a	n/a	<2	<2	0.1	n/a	n/a	n/a	32	n/a	<5000	0.89	0.94	n/a	23.6	170	n/a	n/a		n/a	11.9	84	n/a	n/a	n/a	n/a	0.85	0.76	-103
P18-50	11/23/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	29	n/a	<5000	1.1	1.1	n/a	29	210	n/a	n/a		n/a	17	76	n/a	420	n/a	n/a	0.75	1.54	-118
P18-50	3/24/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	36	n/a	<10000	1.3	1.5	n/a	31	250	n/a	n/a		n/a	18	76	n/a	480	n/a	n/a	1.55	2.28	-82
P18-50	5/19/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	36	n/a	<10000	1.9	0.52	n/a	28	200	n/a	n/a	n/a	n/a	16	83	n/a	440	n/a	n/a	10.2	2.3	32
P18-50	7/27/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	45	n/a	<10000	1.5	1.5	n/a	n/a	290	n/a	n/a	n/a	n/a	19	n/a	n/a	400	n/a	n/a	0.3	0.33	-100
P18-50	11/2/2010	340	<100	1	1	n/a	n/a	n/a	n/a	41	n/a	<10000	1.4	1.3	n/a	n/a	270	n/a	<100	n/a	3.4	22	n/a	n/a	460	n/a	n/a	4	0.17	-103
P18-50	3/17/2011	360	<100	2	2	n/a	n/a	n/a	n/a	35	n/a	<10000	1.1	1.1	n/a	n/a	230	n/a	<100	n/a	3	23	n/a	n/a	560	n/a	n/a	<1	0.15	-83
P18-50	6/7/2011	330	<100	4	3	n/a	n/a	n/a	n/a	43	n/a	<10000	2.9	2.2	n/a	n/a	460	n/a	<100	n/a	3.5	25	n/a	n/a	530	n/a	n/a	1.55	0.2	-107.8
P18-50	9/20/2011	350	<100	2	2	n/a	n/a	n/a	n/a	37	n/a	<10000	1.5	1.6	n/a	n/a	300	n/a	<100	n/a	3.6	27	n/a	n/a	480	n/a	n/a	2.06	0.47	-101.9
P18-50	11/10/2011	360	<100	2	1	n/a	n/a	n/a	n/a	36	n/a	<10000	1.3	1.2	n/a	n/a	250	n/a	<100	n/a	3.4	23	n/a	n/a	480	n/a	n/a	<1	0.16	-72
P18-50	3/20/2012	310	<100	1	1	n/a	n/a	n/a	n/a	31	n/a	<10000	1.2	1.1	n/a	n/a	220	230	<100	n/a	3.3	23	n/a	n/a	440	n/a	n/a	<1	0.22	51.2
P18-50	5/23/2012	310	<100	1	1	n/a	n/a	n/a	n/a	24	n/a	<10000	1.1	1.1	n/a	n/a	230	230	<100	n/a	3.1	23	n/a	n/a	330	n/a	n/a	<1	0.3	-54.7
P18-50	8/7/2012	300	<100	1	1	n/a	n/a	n/a	n/a	21	n/a	<10000	0.88	0.79	n/a	n/a	250	230	<100	n/a	3.1	20	n/a	n/a	370	n/a	n/a	<1	0.28	-49.6
P18-50	10/11/2012	290	<100	1	1	n/a	n/a	n/a	n/a	20	n/a	14000	0.96	0.94	n/a	n/a	220	220	<100	n/a	2.9	15	n/a	n/a	400	n/a	n/a	<1	0.32	-61.9
P18-50	4/10/2013	282	<100	2	1	n/a	n/a	n/a	n/a	30	n/a	<10000	1.4	1.2	n/a	n/a	230	240	<100	n/a	3	16	n/a	n/a	410	n/a	n/a	3.07	0.28	-79.1
P18-50	10/8/2013	290	<100	1	1	n/a	n/a	n/a	n/a	28	n/a	<10000	1.2	0.95	n/a	n/a	230	230	<100	n/a	2.8	18	n/a	n/a	430	n/a	n/a	2.92	0.53	-62.6
P18-50	4/16/2014	300	<100	2	1	0.081	n/a	n/a	99	33	n/a	<10000	1.2	1	n/a	27	230	n/a	<100	<0.10	3	17	75	<1000	460	n/a	n/a	1.17	0.27	-58.4
P18-50	10/21/2014	340	<100	6	1	0.092	n/a	n/a	110	39	n/a	<10000	4.7	1.1	n/a	31	260	n/a	<100	<0.10	3.1	22	75	<1000	510	n/a	n/a	22.76	0.22	-45.9
P18-50	4/15/2015	330	<100	2	1	0.088	n/a	n/a	110	40	n/a	<10000	1.6	1.1	n/a	29	260	n/a	<100	<0.10	3.1	20	75	<1000	520	n/a	n/a	4.8	0.29	-40.4
P18-50	10/13/2015	330	<100	10	2	0.094	n/a	n/a	110	49	n/a	<10000	6.8	1.3	n/a	32	320	n/a	<100	<0.10	3.2	28	75	<1000	490	n/a	n/a	22.57	0.24	-43.9
P18-50	4/19/2016	350	<100	5	2	0.096	<1	<1	120	50	<1	<10000	3.6	1.2	<2	33	300	n/a	<100	<0.10	3.4	27	72	<1000	530	<1	<20	17.44	0.4	-51.6
P18-50	11/16/2016	340	<100	2	1	0.098	n/a	n/a	120	51	n/a	<10000	1.8	1.2	n/a	35	320	n/a	<100	<0.10	3.4	31	72	<1000	530	n/a	n/a	2.8	0.46	-72.2
P18-50	4/12/2017	350	<200	3	1	0.094	n/a	n/a	110	54	n/a	<10000	2.7	1.1	n/a	31	460	n/a	<100	<0.10	3.3	28	75	<1000	540	n/a	n/a	10.35	0.42	-60.1
P18-50	10/25/2017	300	<100	3	2	0.096	n/a	n/a	120	37	n/a	<10000	2.9	1.3	n/a	34	320	310	<100	<0.10	3.4	32	72	<1000	550	n/a	n/a	9.56	0.34	-25.8
P18-50	5/2/2018	390	<200	2	1	0.095	n/a	n/a	120	37	n/a	<10000	2.2	1.3	n/a	35	350	340	<100	<0.1	3.3	28	69	<1000	530	n/a	n/a	4.61	0.68	-15.8
P18-50	10/9/2018	350	<200	3	<2	0.09	n/a	n/a	110	34	n/a	<10000	2.9	1.4	n/a	32	350	320	<100	<0.1	3.3	27	61	<1000	510	n/a	n/a	8.64	0.28	-32.3
P18-50	6/12/2019	450	70	<2	<2	0.09	n/a	n/a	130	33	n/a	<4500	2	0.91	n/a	36	350	330	<100	<0.1	3.3	30	56	<1000	580	n/a	n/a	12.95	0.41	70.4
P18-50	12/9/2019	440	89	<2	<2	0.086	<1	<1	130	29	<1	8800	1.4	1.4	<2	37	340	330	<100	<0.1	3.1	24	49	n/a	560	<2	<20	<1	0.26	97.3
P18-50	4/14/2020	450	70	<2	<2	0.09	n/a	n/a	130	30	n/a	<4500	1.5	1.4	n/a	37	340	340	<100	<0.1	3.1	25	53	n/a	550	n/a	n/a	1.09	1.03	99.7
P18-50	10/6/2020	420	210	<2	<2	0.08	n/a	n/a	120	33	n/a	<4500	1.4	1.4	n/a	35	320	320	<100	<0.1	2.9	22	54	n/a	560	n/a	n/a	<1	0.37	128
P18-50	6/2/2021	510	37	<2	<2	0.09	n/a	n/a	120	28	n/a	<4500	1.2	1.1	n/a	36	360	350	<100	<0.1	3.1	22	51	n/a	520	n/a	n/a	2.83	1.7	113.4
P18-50	11/15/2021	310	39	<2	<2	0.08	n/a	n/a	110	28	n/a	<4500	1.3	1.2	n/a	32	280	300	<100	<0.1	2.7	22	65	n/a	580	n/a	n/a	<1	0.46	149.4
P18-50	6/21/2022	420	<20	3	<2	0.09	n/a	n/a	130	37	n/a	10000	2.4	1.1	n/a	35	420	400	<100	<0.10	3.2	22	62	n/a	510	n/a	n/a	5.88	0.37	116.8
P18-50	12/7/2022	420	62	<2.0	<2.0	0.088	<1.0	<1.0	120	37	<1.0	12000	1.4	1.4	<2.0	34	280	300	<100.0	<0.10	2.9	21	66	n/a	550	<2.0	<20.0	<1.0	0.5	189.9
P18-50	5/24/2023	410	37	3	<2	0.09	n/a	n/a	120	37	n/a	<30000	2.5	1.1	n/a	35	320	290	<100	<0.10	2.9	23	68	n/a	540	n/a	n/a	10.15	0.82	276.4

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P19-50	12/20/2007	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	30	n/a	15000	20	17	n/a	n/a	270	n/a	n/a		n/a	30	n/a	n/a	490	n/a	n/a	8.21	3.52	107
P19-50	3/12/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	34	n/a	<5000	17	16	n/a	n/a	200	n/a	n/a		n/a	27	n/a	n/a	590	n/a	n/a	28.23	6.92	184
P19-50	6/6/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	31	n/a	<5000	13	16	n/a	n/a	150	n/a	n/a		n/a	26	n/a	n/a	470	n/a	n/a	55.65	4.51	157
P19-50	9/25/2008	410	n/a	<2	<2	0.25	n/a	n/a	n/a	29	n/a	<5000	11	11	n/a	38	180	n/a	n/a		n/a	26	22	n/a	460	n/a	n/a	7.15	2.36	-1
P19-50	10/21/2008	400	n/a	<2	<2	0.26	n/a	n/a	n/a	27	n/a	8000	14	0.38	n/a	37	160	n/a	n/a		n/a	25	21	n/a	490	n/a	n/a	n/a	4.81	-100
P19-50	3/24/2009	380	n/a	<2	<2	0.24	n/a	n/a	n/a	30	n/a	<5000	13.1	12.7	n/a	35	160	n/a	n/a		n/a	24	35	n/a	520	n/a	n/a	0.33	4.03	-67
P19-50	5/28/2009	380	n/a	<2	<2	0.23	n/a	n/a	n/a	27	n/a	7000	12	11	n/a	33	150	n/a	n/a		n/a	24	41	n/a	460	n/a	n/a	12.21	0.5	-114
P19-50	8/6/2009	n/a	n/a	<2	<2	0.25	n/a	n/a	n/a	28	n/a	7000	11.7	11.2	n/a	26.2	130	n/a	n/a		n/a	20.7	49	n/a	480	n/a	n/a	1.82	0.2	-128
P19-50	11/23/2009	n/a	n/a	<2	<2	0.2	n/a	n/a	n/a	32	n/a	<5000	10	10	n/a	29	150	n/a	n/a		n/a	22	51	n/a	420	n/a	n/a	2.35	0.6	-136
P19-50	3/24/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	29	n/a	10000	11	9.9	n/a	32	180	n/a	n/a		n/a	23	47	n/a	430	n/a	n/a	17.21	0.35	-110
P19-50	5/20/2010	n/a	n/a	<2	<2	0.21	n/a	n/a	n/a	35	n/a	15000	11	11	n/a	31	180	n/a	n/a	n/a	n/a	25	61	n/a	480	n/a	n/a	6.1	0.9	-115
P19-50	7/27/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	41	n/a	<10000	10	10	n/a	n/a	170	n/a	n/a	n/a	n/a	24	n/a	n/a	370	n/a	n/a	4.14	0.55	-102
P19-50	11/2/2010	280	830	<1	<1	n/a	n/a	n/a	n/a	54	n/a	<10000	13	9.8	n/a	n/a	220	n/a	<100	n/a	4.6	23	n/a	n/a	420	n/a	n/a	27	0.2	-141
P19-50	3/17/2011	290	190	<1	<1	n/a	n/a	n/a	n/a	38	n/a	<10000	9.3	8.9	n/a	n/a	200	n/a	<100	n/a	4.7	22	n/a	n/a	450	n/a	n/a	4.42	0.19	-110
P19-50	6/14/2011	280	<100	<1	<1	n/a	n/a	n/a	n/a	53	n/a	13000	5.5	6.7	n/a	n/a	120	n/a	250	n/a	4.6	23	n/a	n/a	390	n/a	n/a	11.65	0.25	-60.4
P19-50	9/21/2011	280	270	<1	<1	n/a	n/a	n/a	n/a	57	n/a	<10000	9.4	8.9	n/a	n/a	220	n/a	<100	n/a	4.6	22	n/a	n/a	420	n/a	n/a	2.37	0.13	-129.1
P19-50	11/10/2011	290	210	<1	<1	n/a	n/a	n/a	n/a	45	n/a	<10000	8.7	8.5	n/a	n/a	190	n/a	<100	n/a	4.5	22	n/a	n/a	380	n/a	n/a	<1	0.15	-32
P19-50	3/20/2012	310	110	<1	<1	n/a	n/a	n/a	n/a	43	n/a	<10000	9.2	8.9	n/a	n/a	190	190	<100	n/a	4.5	25	n/a	n/a	436	n/a	n/a	1.77	0.2	-27.6
P19-50	5/31/2012	290	200	<1	<1	n/a	n/a	n/a	n/a	55	n/a	<10000	9.9	9.1	n/a	n/a	210	200	<100	n/a	4.4	24	n/a	n/a	420	n/a	n/a	9.78	0.27	-108.7
P19-50	8/7/2012	270	230	<1	<1	n/a	n/a	n/a	n/a	65	n/a	<10000	9.4	8.8	n/a	n/a	220	210	<100	n/a	4.7	25	n/a	n/a	430	n/a	n/a	<1	0.19	22.7
P19-50	10/11/2012	270	250	<1	<1	n/a	n/a	n/a	n/a	58	n/a	15000	8.8	7.9	n/a	n/a	200	190	<100	n/a	4.3	23	n/a	n/a	430	n/a	n/a	<1	0.24	-292.1
P19-50	4/10/2013	292	400	<1	<1	n/a	n/a	n/a	n/a	50	n/a	12000	8.2	9.3	n/a	n/a	200	200	<100	n/a	4.2	23	n/a	n/a	450	n/a	n/a	2.67	0.56	-107
P19-50	10/8/2013	300	360	<1	<1	n/a	n/a	n/a	n/a	45	n/a	<10000	8	7.6	n/a	n/a	200	200	<100	n/a	4.3	24	n/a	n/a	480	n/a	n/a	4.51	0.36	-104
P19-50	4/17/2014	320	300	<1	<1	0.2	n/a	n/a	100	31	n/a	10000	8.5	8.2	n/a	23	200	n/a	<100	<0.1	4.5	28	64	<1000	500	n/a	n/a	5.25	0.34	-92.5
P19-50	10/21/2014	270	270	<1	<1	0.16	n/a	n/a	88	29	n/a	<10000	7.7	7.1	n/a	19	160	n/a	<100	<0.10	4.2	24	55	<1000	400	n/a	n/a	12.1	0.27	-91
P19-50	4/23/2015	350	380	<1	<1	0.2	n/a	n/a	110	36	n/a	<10000	8.8	7.9	n/a	24	210	n/a	<100	<0.10	4.6	26	61	<1000	490	n/a	n/a	8.02	0.23	-85.3
P19-50	10/13/2015	310	390	<1	<1	0.18	n/a	n/a	97	46	n/a	10000	8	7.5	n/a	24	190	n/a	<100	<0.10	4.4	26	60	<1000	440	n/a	n/a	7.18	0.23	-88
P19-50	4/19/2016	310	390	<1	<1	0.19	<1	<1	110	52	<1	<10000	8.5	7.4	<2	25	190	n/a	<100	<0.10	4.7	25	56	<1000	510	<1	<20	11.83	0.4	-96.3
P19-50	11/16/2016	220	540	<1	<1	0.2	n/a	n/a	110	97	n/a	<10000	8.4	7.8	n/a	27	210	n/a	<100	<0.10	4.7	25	73	n/a	490	n/a	n/a	1.45	0.4	-126
P19-50	4/12/2017	270	360	<1	<1	0.19	n/a	n/a	100	76	n/a	<10000	8.4	7.6	n/a	25	190	n/a	<100	<0.10	4.5	26	64	<1000	490	n/a	n/a	9.48	0.76	-123
P19-50	10/25/2017	250	<100	<1	<1	0.2	n/a	n/a	100	90	n/a	<10000	8.2	7.4	n/a	25	200	190	<100	<0.10	4.8	35	62	<1000	510	n/a	n/a	6.34	0.27	-84.7
P19-50	5/2/2018	380	680	<1	<1	0.2	n/a	n/a	100	61	n/a	<10000	8.4	7.6	n/a	24	180	180	<100	<0.1	4.6	40	56	<1000	500	n/a	n/a	7.73	0.47	-84
P19-50	10/9/2018	240	430	<2	<2	0.18	n/a	n/a	96	78	n/a	<10000	5.9	5.5	n/a	23	160	160	<100	<0.1	4.8	36	71	<1000	490	n/a	n/a	6.9	0.57	-65.6
P19-50	6/12/2019	280	490	<2	<2	0.16	n/a	n/a	91	42	n/a	<4500	6.4	5.1	n/a	22	170	160	<100	<0.1	4.5	37	53	<1000	450	n/a	n/a	8.26	0.26	-88.2
P19-50	12/9/2019	300	490	<2	<2	0.16	<1	<1	90	42	<1	5500	6.5	6.1	<2	21	150	150	<100	<0.1	4.4	32	44	n/a	440	<2	<20	3.2	0.26	-9.5
P19-50	4/14/2020	320	640	<2	<2	0.16	n/a	n/a	87	43	n/a	6500	6.2	6.2	n/a	21	150	150	<100	<0.1	4.3	34	51	n/a	440	n/a	n/a	1.66	0.74	-35.7
P19-50	10/6/2020	280	1400	<2	<2	0.18	n/a	n/a	99	86	n/a	6800	7.3	6.3	n/a	23	160	150	<100	<0.1	4.5	37	55	n/a	540	n/a	n/a	13.02	0.3	37
P19-50	6/2/2021	340	290	<2	<2	0.17	n/a	n/a	98	56	n/a	8400	6	5.2	n/a	23	140	140	<100	<0.1	4.4	32	58	n/a	500	n/a	n/a	9.44	5.68	30.8
P19-50	11/15/2021	240	290	<2	<2	0.15	n/a	n/a	85	48	n/a	<4500	7.4	5.1	n/a	20	150	140	<100	<0.1	3.9	32	66	n/a	440	n/a	n/a	19.22	0.45	109.2
P19-50	6/21/2022	300	360	<2	<2	0.16	n/a	n/a	93	37	n/a	8400	6.8	5.2	n/a	19	150	150	<100	<0.10	4.3	38	51	n/a	390	n/a	n/a	13.55	0.47	-30.4
P19-50	12/7/2022	320	330	<2.0	<2.0	0.15	<1.0	<1.0	85	37	<1.0	18000	6.3	5.6	<2.0	19	140	140	<100.0	<0.10	4	34	62	n/a	480	<2.0	<20.0	6.26	0.36	71.6
P19-50	5/25/2023	340	340	<2	<2	0.16	n/a	n/a	97	42	n/a	<30000	5.9	6.1	n/a	20	140	140	<140	<0.10	4.1	37	50	n/a	400	n/a	n/a	<1	0.29	278.1

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P20-50	12/20/2007	370	<100	<2	<2	0.16	<10	<1	138	39	<2	<5000	4.3	4.4	<5	36	360	n/a	<100		3.9	26	90	<1000	n/a	<100	<20	16.89	2.79	90
P20-50	3/13/2008	330	<100	<2	<2	0.13	<10	<1	113	35	<2	<5000	3.6	3.6	<5	28	350	n/a	<100		3.4	23	82	<1000	500	<100	<20	9.56	1.43	162
P20-50	6/6/2008	280	<100	2	<2	0.15	<10	<1	117	38	<2	<5000	6.3	3.9	<5	30	300	n/a	<100		3.7	20	91	<1000	480	<100	<20	23.01	1.13	105
P20-50	9/25/2008	300	<100	<2	<2	0.15	<10	<1	119	41	<2	<5000	4.4	3.7	<5	30	300	n/a	<100		3.6	22	82	<1000	460	<100	<20	8.81	1.6	31
P20-50	10/22/2008	290	<100	<5	<5	0.14	<10	<1	114	42	<2	<5000	4	0.95	<5	30	290	n/a	<100		3.5	23	82	<1000	510	<100	<20	n/a	4.43	-102
P20-50	3/24/2009	300	<100	<2	<2	0.13	<10	<1	113	43	<2	<5000	4	3.9	<5	28	270	n/a	<100		3.8	23	86	<1000	440	<2	<20	2.04	3.72	-90
P20-50	5/20/2009	340	<100	<2	<2	0.14	<10	<1	120	41.3	<2	<5000	3.6	3.4	<5	32	290	n/a	<100		3.8	25	92.7	<1000	540	<2	<20	7.69	0.69	-85
P20-50	8/6/2009	n/a	<100	<2	<2	0.16	<10	<1	120	44	<2	<5000	2.51	2.36	<5	26.6	250	n/a	<100		3.31	21.5	94	<1000	530	<2	<20	12.67	0.19	-57
P20-50	11/23/2009	n/a	<100	<2	<2	0.14	<10	<1	124	41	<2	<5000	3.4	3.1	<5	31	300	n/a	<100		3.7	24	91	<1000	480	<2	<20	2.8	1.61	-121
P20-50	3/24/2010	n/a	<100	<2	<2	0.15	<10	<1	127	43	<2	<10000	2.9	2.5	<2	30	300	n/a	<100		4	25	88	<1000	500	<2	n/a	14.36	2.95	-45
P20-50	5/19/2010	n/a	<100	<2	<2	0.11	<1	<1	98	46	<2	12000	0.55	0.11	<2	25	70	n/a	100	<0.10	3.2	22	92	<1000	488	<2	<20	10.6	3.3	46
P20-50	7/27/2010	350	<100	<2	<2	0.15	<1	<1	120	46	<2	<10000	3.5	3.3	<2	31	310	n/a	<100	<0.10	4.1	28	93	<1000	430	<2	<20	2.78	0.67	-106
P20-50	11/2/2010	360	<100	<1	<1	0.14	<1	<1	120	41	<1	<10000	3	2.9	<2	32	310	n/a	<100	<0.10	4	31	76	<1000	500	<1	<20	1	0.43	-116
P20-50	3/17/2011	380	<100	1	1	0.14	<1	<1	130	43	<1	<10000	3.4	3.3	<2	35	370	n/a	<100	<0.10	4	30	73	<1000	610	<1	<20	1.86	0.28	-77
P20-50	6/14/2011	270	<100	1	<1	0.11	<1	<1	90	31	<1	<10000	3	1.9	<2	26	400	n/a	<100	<0.10	3.3	25	73	<1000	320	<1	<20	14.72	0.13	-119.9
P20-50	9/20/2011	260	<100	1	<1	0.106	<1	<1	100	30	<1	<10000	2.3	1.9	<2	25	360	n/a	<100	<0.10	3.3	24	69	<1000	360	<1	<20	4.02	0.11	-116.8
P20-50	11/10/2011	270	<100	1	<1	0.11	<1	<1	93	37	<1	<10000	2.5	2.1	<2	24	310	n/a	<100	<0.10	3.4	23	70	2700	380	<1	<20	1.43	0.15	-100.1
P20-50	3/20/2012	320	<100	1	1	0.12	<1	<1	120	36	<1	<10000	2.8	2.6	<2	31	360	340	<100	<0.10	3.8	30	68	<1000	460	<1	<20	1.48	0.21	-10.2
P20-50	5/23/2012	310	<100	2	<1	0.12	<1	<1	100	36	<1	<10000	4.8	2.5	<2	30	390	360	<100	<0.10	3.5	28	70	<1000	350	<1	<20	14.56	0.28	52.7
P20-50	7/26/2012	310	<100	1	1	0.1	<1	<1	96	34	<1	<10000	2.7	2.3	<2	30	360	340	<100	<0.10	3.7	27	74	<1000	360	<1	<20	1.86	0.27	-97.9
P20-50	10/9/2012	320	<100	<1	<1	0.12	<1	<1	110	34	<1	<10000	2.3	2.3	<2	28	350	370	<100	<0.10	3.6	23	73	<1000	470	<1	<20	<1	0.22	-71.6
P20-50	4/10/2013	316	<100	1	1	0.14	<1	<1	98	37	<1	<10000	2.5	2.4	<2	30	370	390	<100	<0.10	3.2	25	77	<1000	460	<1	<20	10.58	0.17	-86.2
P20-50	10/8/2013	310	<100	2	1	0.13	<1	<1	98	37	<1	<10000	3.9	2.1	<2	28	380	370	<100	<0.10	3.1	25	76	<1000	470	<1	<20	13.35	0.43	-72.7
P20-50	4/16/2014	330	<100	2	1	0.13	n/a	n/a	110	46	n/a	<10000	3.3	2.5	n/a	31	410	n/a	<100	<0.10	3.5	25	80	<1000	540	n/a	n/a	12.34	0.32	-66
P20-50	10/21/2014	370	<100	4	1	0.14	n/a	n/a	120	54	n/a	<10000	6	2.8	n/a	34	480	n/a	<100	<0.10	3.7	29	69	<1000	560	n/a	n/a	51.79	0.35	-59.7
P20-50	4/15/2015	370	<100	1	1	0.14	n/a	n/a	110	42	n/a	<10000	2.9	2.6	n/a	34	460	n/a	<100	<0.10	3.5	26	76	<1000	550	n/a	n/a	8.38	0.23	-52.2
P20-50	10/13/2015	350	<100	2	1	0.14	n/a	n/a	110	61	n/a	<10000	3.8	2.5	n/a	35	490	n/a	<100	<0.10	3.7	33	78	<1000	540	n/a	n/a	19.95	0.29	-45.9
P20-50	4/19/2016	380	<100	2	1	0.16	<1	<1	120	59	<1	<10000	3.8	2.8	<2	37	480	n/a	<100	<0.10	3.9	34	75	<1000	590	<1	<20	20.94	0.33	-59.7
P20-50	11/16/2016	360	<100	2	1	0.16	n/a	n/a	130	59	n/a	<10000	3.8	3.1	n/a	38	540	n/a	<100	<0.10	4	38	74	<1000	560	n/a	n/a	14.35	0.51	-82.7
P20-50	4/12/2017	390	<200	2	1	0.16	n/a	n/a	120	57	n/a	<10000	4.1	2.9	n/a	39	530	n/a	<100	<0.10	3.9	33	77	<1000	600	n/a	n/a	25.27	0.39	-50.1
P20-50	10/25/2017	310	500	2	1	0.15	n/a	n/a	120	46	n/a	<10000	3.9	3	n/a	37	540	530	<100	<0.10	4.1	34	68	<1000	580	n/a	n/a	19.31	0.32	-48.1
P20-50	5/2/2018	420	<200	2	1	0.16	n/a	n/a	120	42	n/a	10000	4.5	3.2	n/a	39	550	550	<100	<0.1	3.8	29	69	<1000	540	n/a	n/a	30.17	0.38	-37.3
P20-50	10/9/2018	410	<200	2	<2	0.16	n/a	n/a	130	44	n/a	<10000	5	3.5	n/a	40	550	520	<100	<0.1	4	30	66	<1000	590	n/a	n/a	26.92	0.33	-34.9
P20-50	6/12/2019	350	190	<2	<2	0.17	n/a	n/a	130	44	n/a	<4500	4.7	4	n/a	40	480	480	<100	<0.1	4.2	32	66	<1000	480	n/a	n/a	9.38	0.45	14.2
P20-50	12/9/2019	460	150	<2	<2	0.16	<1	<1	130	35	<1	<4500	4.2	3.5	<2	39	550	550	<100	<0.1	3.7	29	53	n/a	300	<2	<20	6.37	0.27	81.1
P20-50	4/14/2020	490	220	2	<2	0.16	n/a	n/a	130	38	n/a	<4500	4.6	3.5	n/a	39	510	500	<100	<0.1	3.5	30	62	n/a	580	n/a	n/a	18	0.96	69.1
P20-50	10/6/2020	460	630	2	<2	0.16	n/a	n/a	130	38	n/a	<4500	4.1	3.7	n/a	40	530	540	<100	<0.1	3.4	29	58	n/a	600	n/a	n/a	6.64	0.46	156.3
P20-50	6/2/2021	560	22	<2	<2	0.16	n/a	n/a	130	39	n/a	<4500	3.9	3.5	n/a	40	540	530	<100	<0.1	3.5	30	67	n/a	590	n/a	n/a	4.01	0.73	87.2
P20-50	11/15/2021	370	68	2	<2	0.16	n/a	n/a	130	39	n/a	<4500	4.4	3.6	n/a	38	530	520	<100	<0.1	3.5	32	67	n/a	870	n/a	n/a	5.59	0.5	144.9
P20-50	6/21/2022	440	<20	2	<2	0.16	n/a	n/a	130	46	n/a	13000	4.2	3.1	n/a	39	500	500	<100	<0.10	3.7	29	71	n/a	540	n/a	n/a	9.83	0.7	109.1
P20-50	12/7/2022	440	38	2	<2.0	0.16	<1.0	<1.0	120	43	<1.0	14000	4	3.2	<2.0	36	460	480	<100.0	<0.10	3.6	29	70	n/a	610	<2.0	<20.0	6.63	0.4	222.8
P20-50	5/24/2023	410	81	<2	<2	0.16	n/a	n/a	120	45	n/a	<30000	3.6	3.2	n/a	36	500	500	<100	<0.10	3.6	29	78	n/a	580	n/a	n/a	2.6	0.44	282.4

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P21-47	12/20/2007	n/a	n/a	2	<2	n/a	n/a	n/a	n/a	42	n/a	12000	15	13	n/a	n/a	n/a	n/a	n/a		n/a	60	n/a	n/a	n/a	n/a	n/a	34.1	2.29	85
P21-47	3/13/2008	n/a	n/a	2	2	n/a	n/a	n/a	n/a	36	n/a	<5000	13	12	n/a	n/a	n/a	n/a	n/a		n/a	69	n/a	n/a	n/a	n/a	n/a	19.71	1.47	113
P21-47	6/12/2008	n/a	n/a	6	<2	n/a	n/a	n/a	n/a	35	n/a	7000	17	14	n/a	n/a	n/a	n/a	n/a		n/a	42	n/a	n/a	n/a	n/a	n/a	<0.1	0.97	115
P21-47	9/25/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	33	n/a	<5000	14	14	n/a	n/a	n/a	n/a	n/a		n/a	46	n/a	n/a	n/a	n/a	n/a	10.23	1.5	30
P21-47	10/21/2008	n/a	n/a	<3	<2	n/a	n/a	n/a	n/a	34	n/a	6000	15	0.22	n/a	n/a	n/a	n/a	n/a		n/a	43	n/a	n/a	n/a	n/a	n/a	n/a	3.42	-95
P21-47	3/26/2009	n/a	n/a	3	3	n/a	n/a	n/a	n/a	41	n/a	<5000	13.2	12.7	n/a	n/a	n/a	n/a	n/a		n/a	74	n/a	n/a	n/a	n/a	n/a	9.93	0.47	-17
P21-47	5/28/2009	n/a	n/a	2	2	n/a	n/a	n/a	n/a	39	n/a	8000	14	13	n/a	n/a	n/a	n/a	n/a		n/a	62	n/a	n/a	n/a	n/a	n/a	13.03	1.3	-95
P21-47	8/13/2009	n/a	n/a	3	3	n/a	n/a	n/a	n/a	37	n/a	6000	13.8	13.1	n/a	n/a	n/a	n/a	n/a		n/a	59.9	n/a	n/a	n/a	n/a	n/a	7.21	1.17	-128
P21-47	11/23/2009	n/a	n/a	3	3	n/a	n/a	n/a	n/a	45	n/a	<5000	14	14	n/a	n/a	n/a	n/a	n/a		n/a	39	n/a	n/a	n/a	n/a	n/a	3.73	0.45	-120
P21-47	3/24/2010	n/a	n/a	4	3	n/a	n/a	n/a	n/a	40	n/a	11000	14	13	n/a	n/a	n/a	n/a	n/a		n/a	43	n/a	n/a	n/a	n/a	n/a	10.44	1.75	-122
P21-47	5/20/2010	n/a	n/a	3	3	n/a	n/a	n/a	n/a	45	n/a	13000	14	13	n/a	n/a	n/a	n/a	n/a	n/a	n/a	48	n/a	n/a	n/a	n/a	n/a	25.24	0.3	-100
P21-47	7/28/2010	n/a	n/a	3	3	n/a	n/a	n/a	n/a	45	n/a	14000	15	15	n/a	n/a	n/a	n/a	n/a	n/a	n/a	47	n/a	n/a	n/a	n/a	n/a	0.01	0.42	-98
P21-47	11/9/2010	550	110	3	4	n/a	n/a	n/a	n/a	46	n/a	<10000	15	14	n/a	n/a	n/a	n/a	<100	n/a	5.5	50	n/a	n/a	580	n/a	n/a	3.17	0.33	-109
P21-47	3/17/2011	530	<100	3	3	n/a	n/a	n/a	n/a	41	n/a	<10000	14	14	n/a	n/a	n/a	n/a	<100	n/a	5.4	49	n/a	n/a	630	n/a	n/a	3.11	0.14	-96
P21-47	6/15/2011	540	<100	5	5	n/a	n/a	n/a	n/a	41	n/a	11000	13	13	n/a	n/a	n/a	n/a	<100	n/a	5.6	45	n/a	n/a	520	n/a	n/a	7.39	1.4	-91.9
P21-47	9/21/2011	550	<100	5	5	n/a	n/a	n/a	n/a	41	n/a	<10000	16	14	n/a	n/a	n/a	n/a	<100	n/a	5.6	47	n/a	n/a	570	n/a	n/a	3.56	0.22	-109.6
P21-47	11/18/2011	560	<100	5	6	n/a	n/a	n/a	n/a	43	n/a	<10000	14	14	n/a	n/a	n/a	n/a	<100	n/a	5.5	39	n/a	n/a	620	n/a	n/a	2.8	1.09	-90.1
P21-47	3/21/2012	460	<100	3	2	n/a	n/a	n/a	n/a	43	n/a	<10000	13	14	n/a	n/a	n/a	n/a	n/a	n/a	5.3	38	n/a	n/a	580	n/a	n/a	1.75	0.2	2.9
P21-47	5/31/2012	490	<100	3	3	n/a	n/a	n/a	n/a	46	n/a	<10000	14	14	n/a	n/a	n/a	n/a	<100	n/a	5.2	40	n/a	n/a	510	n/a	n/a	1.53	0.23	-79.6
P21-47	8/7/2012	500	<100	3	3	n/a	n/a	n/a	n/a	49	n/a	<10000	14	14	n/a	n/a	n/a	n/a	<100	n/a	5.6	40	n/a	n/a	540	n/a	n/a	<1	0.24	-88.6
P21-47	10/11/2012	530	<100	3	3	n/a	n/a	n/a	n/a	45	n/a	12000	14	13	n/a	n/a	n/a	n/a	<100	n/a	5.8	32	n/a	n/a	600	n/a	n/a	<1	0.3	-539.4
P21-47	4/17/2013	488	280	4	4	n/a	n/a	n/a	n/a	41	n/a	12800	14	14	n/a	n/a	n/a	n/a	<100	n/a	5.7	36	n/a	n/a	552	n/a	n/a	7.96	0.25	-39.1
P21-47	10/9/2013	490	<100	3	4	n/a	n/a	n/a	n/a	38	n/a	<10000	11	12	n/a	n/a	n/a	n/a	<100	n/a	4.9	32	n/a	n/a	570	n/a	n/a	5.67	0.45	-201.8
P21-47	4/17/2014	490	160	3	3	0.37	n/a	n/a	120	40	n/a	15000	13	13	n/a	38	160	n/a	<100	<0.10	6	34	18	<1000	600	n/a	n/a	9.03	0.34	-72.5
P21-47	10/29/2014	510	190	3	3	0.34	n/a	n/a	130	40	n/a	10000	13	13	n/a	41	180	n/a	<100	<0.10	5	37	9.5	<1000	560	n/a	n/a	6.57	0.3	-73.1
P21-47	4/23/2015	510	170	3	3	0.34	n/a	n/a	120	40	n/a	11000	13	13	n/a	37	180	n/a	<100	<0.10	5	32	15	<1000	590	n/a	n/a	3.46	0.27	-74.5
P21-47	10/21/2015	520	240	3	3	0.35	n/a	n/a	130	51	n/a	13000	14	13	n/a	43	200	n/a	<100	<0.10	5.5	40	7.2	<1000	590	n/a	n/a	8.71	0.43	-31.7
P21-47	4/21/2016	490	350	3	3	0.37	<1	<1	130	52	<1	<10000	14	13	<2	40	180	n/a	<100	<0.10	5.4	36	19	<1000	590	<1	<20	20.89	0.33	-74.8
P21-47	11/17/2016	490	400	3	2	0.4	n/a	n/a	140	59	n/a	<10000	15	14	n/a	44	230	n/a	<100	<0.10	5.8	43	15	<1000	600	n/a	n/a	6.39	0.55	-91
P21-47	4/12/2017	500	380	3	3	0.39	n/a	n/a	130	58	n/a	10000	14	14	n/a	41	210	n/a	<100	<0.10	5.6	41	18	<1000	610	n/a	n/a	2.31	0.35	-96.5
P21-47	10/26/2017	520	450	3	3	0.39	n/a	n/a	140	57	n/a	12000	14	14	n/a	41	210	210	<100	<0.10	5.7	45	11	2600	610	n/a	n/a	9.03	0.43	-63.8
P21-47	5/23/2018	520	570	3	3	0.37	n/a	n/a	130	54	n/a	20000	14	14	n/a	38	210	210	<100	<0.1	5.6	42	17	<1000	570	n/a	n/a	9.15	0.39	-26.6
P21-47	10/10/2018	480	500	4	4	0.38	n/a	n/a	130	50	n/a	12000	14	14	n/a	37	200	200	<100	<0.1	5.5	44	13	<1000	600	n/a	n/a	13.3	0.33	-46.9
P21-47	6/12/2019	570	720	4	3	0.38	n/a	n/a	140	53	n/a	9400	15	14	n/a	39	210	210	<100	<0.1	5.6	48	13	<1000	630	n/a	n/a	10.03	0.22	-81.3
P21-47	12/9/2019	530	640	3	2	0.37	<1	<1	140	55	<1	5500	14	14	<2	38	240	230	<100	<0.1	5.5	45	12	n/a	620	<2	<20	14.98	0.23	27.3
P21-47	4/14/2020	530	1300	3	2	0.35	n/a	n/a	130	48	n/a	7100	14	13	n/a	35	230	210	<100	<0.1	5.1	45	19	n/a	600	n/a	n/a	18.42	0.29	-27.9
P21-47	10/6/2020	540	910	3	3	0.35	n/a	n/a	130	43	n/a	8400	13	13	n/a	35	210	220	<100	<0.1	5.1	47	16	n/a	590	n/a	n/a	7.94	0.27	54.8
P21-47	6/2/2021	650	200	<2	<2	0.3	n/a	n/a	130	44	n/a	5500	13	12	n/a	38	270	260	<100	<0.1	4.9	46	20	n/a	580	n/a	n/a	4.96	1.09	18.6
P21-47	11/16/2021	390	350	3	2	0.34	n/a	n/a	120	41	n/a	<4500	14	13	n/a	34	210	200	<100	<0.1	5	48	11	n/a	540	n/a	n/a	15.8	0.57	157.4
P21-47	6/22/2022	490	380	5	3	0.36	n/a	n/a	140	44	n/a	13000	15	13	n/a	35	200	190	<100	<0.10	5	45	14	n/a	570	n/a	n/a	23.22	0.43	-7.2
P21-47	12/8/2022	560	260	3	3	0.33	<1.0	<1.0	130	43	<1.0	21000	14	13	<2.0	35	230	220	<100.0	<0.10	5	48	12	n/a	600	<2.0	<20.0	6.01	0.38	42.6
P21-47	5/25/2023	540	270	3	2	0.34	n/a	n/a	140	48	n/a	<30000	14	13	n/a	35	220	210	<140	<0.10	5	49	17	n/a	570	n/a	n/a	16.63	0.39	163

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P22-45	12/20/2007	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	38	n/a	14000	17	16	n/a	n/a	n/a	n/a	n/a		n/a	48	n/a	n/a	n/a	n/a	n/a	71.43	1.7	89
P22-45	3/13/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	36	n/a	<5000	15	15	n/a	n/a	n/a	n/a	n/a		n/a	51	n/a	n/a	n/a	n/a	n/a	43.01	1.74	98
P22-45	6/12/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	39	n/a	8000	16	15	n/a	n/a	n/a	n/a	n/a		n/a	49	n/a	n/a	n/a	n/a	n/a	30.42	3.39	127
P22-45	9/25/2008	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	38	n/a	10000	13	12	n/a	n/a	n/a	n/a	n/a		n/a	53	n/a	n/a	n/a	n/a	n/a	0.38	1.11	-46
P22-45	10/21/2008	n/a	n/a	<5	<5	n/a	n/a	n/a	n/a	36	n/a	5000	15	<0.03	n/a	n/a	n/a	n/a	n/a		n/a	59	n/a	n/a	n/a	n/a	n/a	n/a	3.05	-106
P22-45	3/26/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	44	n/a	<5000	9	11.8	n/a	n/a	n/a	n/a	n/a		n/a	68	n/a	n/a	n/a	n/a	n/a	2.24	3.75	-61
P22-45	5/28/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	45	n/a	8000	10	11	n/a	n/a	n/a	n/a	n/a		n/a	69	n/a	n/a	n/a	n/a	n/a	0.94	1.6	-107
P22-45	8/13/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	42	n/a	12000	8.85	10.9	n/a	n/a	n/a	n/a	n/a		n/a	67.6	n/a	n/a	n/a	n/a	n/a	1.68	0.88	-129
P22-45	11/23/2009	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	36	n/a	<5000	12	11	n/a	n/a	n/a	n/a	n/a		n/a	57	n/a	n/a	n/a	n/a	n/a	1.46	1.92	-117
P22-45	3/24/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	37	n/a	<10000	9.8	10	n/a	n/a	n/a	n/a	n/a		n/a	48	n/a	n/a	n/a	n/a	n/a	5.45	1.51	-107
P22-45	5/20/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	38	n/a	17000	12	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	45	n/a	n/a	n/a	n/a	n/a	0.1	0.9	-128
P22-45	7/28/2010	n/a	n/a	<2	<2	n/a	n/a	n/a	n/a	38	n/a	10000	11	11	n/a	n/a	n/a	n/a	n/a	n/a	n/a	50	n/a	n/a	n/a	n/a	n/a	0.1	3.21	-87
P22-45	11/9/2010	540	270	<1	<1	n/a	n/a	n/a	n/a	36	n/a	<10000	11	10	n/a	n/a	n/a	n/a	<100	n/a	5.6	54	n/a	n/a	550	n/a	n/a	4	0.3	-116
P22-45	3/31/2011	540	110	<1	<1	n/a	n/a	n/a	n/a	38	n/a	17000	10	11	n/a	n/a	n/a	n/a	<100	n/a	5.7	55	n/a	n/a	610	n/a	n/a	<1	0.21	-67
P22-45	6/15/2011	540	<100	<1	<1	n/a	n/a	n/a	n/a	38	n/a	<10000	10	10	n/a	n/a	n/a	n/a	<100	n/a	5.5	53	n/a	n/a	520	n/a	n/a	3.04	0.72	-98.4
P22-45	9/21/2011	540	<100	<1	<1	n/a	n/a	n/a	n/a	37	n/a	<10000	11	10	n/a	n/a	n/a	n/a	<100	n/a	5.6	50	n/a	n/a	590	n/a	n/a	1.21	0.16	-111.5
P22-45	11/18/2011	560	<100	<1	<1	n/a	n/a	n/a	n/a	37	n/a	<10000	11	11	n/a	n/a	n/a	n/a	<100	n/a	5.6	46	n/a	n/a	600	n/a	n/a	1.37	0.86	-97.6
P22-45	3/21/2012	490	<100	<1	<1	n/a	n/a	n/a	n/a	37	n/a	16000	11	12	n/a	n/a	n/a	n/a	n/a	n/a	5.6	48	n/a	n/a	610	n/a	n/a	1.3	0.15	-16
P22-45	5/31/2012	560	<100	<1	<1	n/a	n/a	n/a	n/a	42	n/a	<10000	11	12	n/a	n/a	n/a	n/a	<100	n/a	5.2	43	n/a	n/a	560	n/a	n/a	1.25	0.22	-83.9
P22-45	8/7/2012	550	<100	<1	<1	n/a	n/a	n/a	n/a	44	n/a	17000	11	12	n/a	n/a	n/a	n/a	<100	n/a	5.9	45	n/a	n/a	550	n/a	n/a	1.24	0.21	-87.1
P22-45	10/11/2012	550	<100	<1	<1	n/a	n/a	n/a	n/a	42	n/a	22000	11	11	n/a	n/a	n/a	n/a	<100	n/a	5.6	40	n/a	n/a	580	n/a	n/a	<1	0.28	-75.2
P22-45	4/17/2013	502	370	<1	<1	n/a	n/a	n/a	n/a	44	n/a	12000	11	12	n/a	n/a	n/a	n/a	<100	n/a	5	39	n/a	n/a	564	n/a	n/a	6.13	0.24	-77.1
P22-45	10/9/2013	520	110	<1	<1	n/a	n/a	n/a	n/a	43	n/a	11000	11	9.7	n/a	n/a	n/a	n/a	<100	n/a	5.1	44	n/a	n/a	630	n/a	n/a	4.55	0.33	-365
P22-45	4/17/2014	490	190	<1	<1	0.34	n/a	n/a	120	41	n/a	15000	10	10	n/a	43	110	n/a	<100	<0.10	5.3	39	24	<1000	630	n/a	n/a	7.27	0.27	-76.5
P22-45	10/29/2014	510	280	<1	<1	0.33	n/a	n/a	120	42	n/a	<10000	10	12	n/a	46	120	n/a	<100	<0.10	5.2	42	18	<1000	580	n/a	n/a	5.08	0.27	-82.9
P22-45	4/23/2015	530	200	<1	<1	0.35	n/a	n/a	120	40	n/a	<10000	11	11	n/a	42	110	n/a	<100	<0.10	5.5	36	13	<1000	610	n/a	n/a	6.11	0.21	-77.8
P22-45	10/21/2015	520	280	<1	<1	0.32	n/a	n/a	120	39	n/a	17000	11	10	n/a	47	120	n/a	<100	<0.10	5.2	41	14	<1000	570	n/a	n/a	4.58	0.36	-50.9
P22-45	4/21/2016	510	210	<1	<1	0.36	<1	<1	120	43	<1	10000	11	10	<2	45	120	n/a	<100	<0.10	5.4	37	12	1100	580	<1	<20	13.61	0.3	-75.5
P22-45	11/17/2016	490	460	<1	<1	0.37	n/a	n/a	130	45	n/a	<10000	12	11	n/a	47	130	n/a	<100	<0.10	5.5	40	13	<1000	600	n/a	n/a	3.07	0.51	-95
P22-45	4/12/2017	510	370	<1	<1	0.36	n/a	n/a	130	47	n/a	16000	11	11	n/a	46	130	n/a	<100	<0.10	5.1	39	16	<1000	590	n/a	n/a	4.16	0.31	-105.3
P22-45	10/26/2017	490	400	<1	<1	0.34	n/a	n/a	120	49	n/a	<10000	11	11	n/a	44	130	130	<100	<0.10	5.2	40	21	n/a	590	n/a	n/a	4.01	0.33	-64.3
P22-45	5/23/2018	520	650	<1	<1	0.32	n/a	n/a	130	49	n/a	13000	11	11	n/a	45	140	140	<100	<0.1	4.9	38	25	<1000	590	n/a	n/a	4.33	0.41	-36.4
P22-45	10/10/2018	460	480	<2	<2	0.33	n/a	n/a	130	50	n/a	12000	11	11	n/a	45	150	140	<100	<0.1	5.1	39	35	<1000	580	n/a	n/a	5.01	0.35	-55.7
P22-45	6/12/2019	540	790	<2	<2	0.33	n/a	n/a	130	51	n/a	8400	11	11	n/a	45	140	140	<100	<0.1	4.9	43	22	<1000	610	n/a	n/a	3.6	0.2	-75
P22-45	12/10/2019	570	490	<2	<2	0.33	<1	<1	130	45	<1	5200	12	11	<2	44	150	150	<100	<0.1	5	39	36	n/a	640	<2	<20	8.34	0.29	138.1
P22-45	4/16/2020	540	740	<2	<2	0.33	n/a	n/a	130	45	n/a	16000	12	11	n/a	43	150	140	<100	<0.1	4.9	43	26	n/a	640	n/a	n/a	20.72	0.55	43.7
P22-45	10/7/2020	530	810	<2	<2	0.33	n/a	n/a	130	50	n/a	10000	11	11	n/a	42	150	140	<100	<0.1	5	41	19	n/a	620	n/a	n/a	5.31	0.34	116
P22-45	6/7/2021	620	310	<2	<2	0.34	n/a	n/a	130	48	n/a	4500	10	10	n/a	44	170	170	<100	<0.1	4.7	43	17	n/a	610	n/a	n/a	<1	0.75	1.3
P22-45	11/16/2021	460	380	<2	<2	0.35	n/a	n/a	130	39	n/a	<4500	13	13	n/a	37	140	140	<100	<0.1	5.3	43	6.7	n/a	540	n/a	n/a	9.95	0.42	136.6
P22-45	6/7/2022	520	530	<2	<2	0.33	n/a	n/a	130	42	n/a	11000	12	11	n/a	39	140	140	<100	<0.10	5.4	44	12	n/a	580	n/a	n/a	3.64	0.25	23.8
P22-45	12/8/2022	560	320	<2.0	<2.0	0.32	<1.0	<1.0	130	38	<1.0	24000	12	11	<2.0	37	150	150	<100.0	<0.10	4.9	45	14	n/a	640	<2.0	<20.0	3.88	0.37	26.7
P22-45	6/6/2023	530	530	<2	<2	0.34	n/a	n/a	130	43	n/a	13000	11	11	n/a	36	150	150	<140	<0.10	5.2	46	18	n/a	570	n/a	n/a	2.25	0.38	183.2

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
P23-40	12/20/2007	n/a	n/a	57	60	n/a	n/a	n/a	n/a	56	n/a	61000	22	16	n/a	n/a	n/a	n/a	n/a		n/a	191	n/a	n/a	n/a	n/a	n/a	130	3	88
P23-40	3/13/2008	n/a	n/a	73	67	n/a	n/a	n/a	n/a	45	n/a	28000	17	14	n/a	n/a	n/a	n/a	n/a		n/a	169	n/a	n/a	n/a	n/a	n/a	54.08	1.34	112
P23-40	6/12/2008	n/a	n/a	50	60	n/a	n/a	n/a	n/a	44	n/a	38000	24	21	n/a	n/a	n/a	n/a	n/a		n/a	146	n/a	n/a	n/a	n/a	n/a	19.95	2.88	205
P23-40	9/25/2008	n/a	n/a	48.8	46.4	n/a	n/a	n/a	n/a	49	n/a	33000	19	16	n/a	n/a	n/a	n/a	n/a		n/a	139	n/a	n/a	n/a	n/a	n/a	47.35	0.84	-46
P23-40	10/22/2008	n/a	n/a	44	19	n/a	n/a	n/a	n/a	51	n/a	33000	19	6.1	n/a	n/a	n/a	n/a	n/a		n/a	143	n/a	n/a	n/a	n/a	n/a	n/a	0.69	-106
P23-40	3/26/2009	n/a	n/a	38	39	n/a	n/a	n/a	n/a	54	n/a	36000	13.6	14.1	n/a	n/a	n/a	n/a	n/a		n/a	160	n/a	n/a	n/a	n/a	n/a	13.09	0.35	-87
P23-40	5/28/2009	n/a	n/a	46	46	n/a	n/a	n/a	n/a	51	n/a	40000	14	14	n/a	n/a	n/a	n/a	n/a		n/a	166	n/a	n/a	n/a	n/a	n/a	15.39	0.7	-104
P23-40	8/13/2009	n/a	n/a	39	42	n/a	n/a	n/a	n/a	50	n/a	39000	14.9	14.9	n/a	n/a	n/a	n/a	n/a		n/a	167	n/a	n/a	n/a	n/a	n/a	9.26	0.6	-118
P23-40	11/23/2009	n/a	n/a	50	49	n/a	n/a	n/a	n/a	50	n/a	42000	13	13	n/a	n/a	n/a	n/a	n/a		n/a	166	n/a	n/a	n/a	n/a	n/a	6.36	0.99	-124
P23-40	3/30/2010	n/a	n/a	54	54	n/a	n/a	n/a	n/a	47	n/a	39000	13	12	n/a	n/a	n/a	n/a	n/a		n/a	147	n/a	n/a	n/a	n/a	n/a	4.99	1.76	-112
P23-40	5/20/2010	n/a	n/a	54	55	n/a	n/a	n/a	n/a	45	n/a	44000	14	14	n/a	n/a	n/a	n/a	n/a	n/a	n/a	150	n/a	n/a	n/a	n/a	n/a	3.3	1.1	-108
P23-40	7/28/2010	n/a	n/a	51	48	n/a	n/a	n/a	n/a	45	n/a	12000	16	16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	150	n/a	n/a	n/a	n/a	n/a	11.37	0.48	-92
P23-40	11/9/2010	940	2700	50	49	n/a	n/a	n/a	n/a	50	n/a	55000	15	15	n/a	n/a	n/a	n/a	<100	n/a	15	160	n/a	n/a	950	n/a	n/a	8.83	0.42	-111
P23-40	3/31/2011	850	800	50	50	n/a	n/a	n/a	n/a	46	n/a	45000	13	13	n/a	n/a	n/a	n/a	<100	n/a	13	160	n/a	n/a	910	n/a	n/a	2.5	0.31	-94
P23-40	6/15/2011	920	2400	46	43	n/a	n/a	n/a	n/a	50	n/a	35000	13	13	n/a	n/a	n/a	n/a	110	n/a	14	154	n/a	n/a	890	n/a	n/a	3.85	0.68	-89.5
P23-40	9/21/2011	950	870	43	43	n/a	n/a	n/a	n/a	45	n/a	49000	17	16	n/a	n/a	n/a	n/a	<100	n/a	15	140	n/a	n/a	940	n/a	n/a	3.02	0.29	-105.3
P23-40	12/1/2011	940	950	47	47	n/a	n/a	n/a	n/a	49	n/a	35000	15	15	n/a	n/a	n/a	n/a	<100	n/a	14	130	n/a	n/a	940	n/a	n/a	<1	0.29	-104.7
P23-40	3/21/2012	830	860	49	49	n/a	n/a	n/a	n/a	48	n/a	40000	15	15	n/a	n/a	n/a	n/a	n/a	n/a	15	160	n/a	n/a	1040	n/a	n/a	<1	0.14	-12.9
P23-40	5/31/2012	930	850	46	47	n/a	n/a	n/a	n/a	53	n/a	43000	15	15	n/a	n/a	n/a	n/a	<100	n/a	14	140	n/a	n/a	920	n/a	n/a	<1	0.23	-89
P23-40	8/7/2012	930	800	47	48	n/a	n/a	n/a	n/a	56	n/a	56000	15	16	n/a	n/a	n/a	n/a	<100	n/a	16	151	n/a	n/a	960	n/a	n/a	<1	0.34	-87
P23-40	10/11/2012	920	2200	45	44	n/a	n/a	n/a	n/a	53	n/a	45000	14	14	n/a	n/a	n/a	n/a	<100	n/a	14	140	n/a	n/a	1110	n/a	n/a	<1	0.28	-320.1
P23-40	4/17/2013	834	2300	46	45	n/a	n/a	n/a	n/a	47	n/a	51900	14	13	n/a	n/a	n/a	n/a	<100	n/a	13	140	n/a	n/a	902	n/a	n/a	17.71	0.19	-88.3
P23-40	10/9/2013	890	1600	44	42	n/a	n/a	n/a	n/a	47	n/a	41000	13	13	n/a	n/a	n/a	n/a	<100	n/a	15	130	n/a	n/a	980	n/a	n/a	1.25	0.3	-78.9
P23-40	4/17/2014	890	1200	46	43	0.55	n/a	n/a	140	44	n/a	35000	15	14	n/a	75	50	n/a	<100	<0.10	14	140	0.7	<1000	1010	n/a	n/a	11.93	0.37	-75.6
P23-40	10/29/2014	900	1600	40	38	0.56	n/a	n/a	130	49	n/a	40000	16	14	n/a	74	59	n/a	<100	<0.10	14	140	<0.5	<1000	980	n/a	n/a	9.73	0.39	-77.6
P23-40	4/15/2015	830	1300	42	42	0.49	n/a	n/a	110	47	n/a	42000	13	13	n/a	59	54	n/a	<100	<0.10	14	150	<0.5	<1000	940	n/a	n/a	11.6	0.21	-84.2
P23-40	10/21/2015	930	1700	42	42	0.57	n/a	n/a	120	49	n/a	45000	16	16	n/a	74	61	n/a	<100	<0.10	15	150	0.6	<1000	1010	n/a	n/a	6.42	0.3	-57.8
P23-40	4/21/2016	920	1200	43	40	0.57	<1	<1	120	51	<1	35000	15	14	<2	68	61	n/a	<100	<0.10	15	160	<0.5	<1000	990	<1	<20	11.79	0.33	-77.5
P23-40	11/17/2016	850	2600	44	43	0.61	n/a	n/a	130	53	n/a	41000	16	15	n/a	71	66	n/a	<100	<0.10	17	160	<0.5	<1000	970	n/a	n/a	9.2	n/a	-81.3
P23-40	4/13/2017	840	3200	42	42	0.52	n/a	n/a	120	40	n/a	38000	14	15	n/a	63	61	n/a	<100	<0.10	16	150	<0.5	<1000	920	n/a	n/a	5.41	0.32	-112.2
P23-40	10/26/2017	850	2400	41	41	0.56	n/a	n/a	120	42	n/a	40000	16	15	n/a	70	59	58	<100	<0.10	16	140	<0.5	n/a	900	n/a	n/a	6.32	0.3	-64.2
P23-40	5/24/2018	1000	4000	47	45	0.61	n/a	n/a	160	40	n/a	39000	22	22	n/a	81	100	95	<100	<0.1	17	130	<0.5	<1000	920	n/a	n/a	6.49	0.41	-45.5
P23-40	10/10/2018	860	3500	46	41	0.59	n/a	n/a	140	46	n/a	39000	18	17	n/a	75	70	66	<100	<0.1	17	130	<0.5	<1000	930	n/a	n/a	5.26	0.29	-57.1
P23-40	6/12/2019	1000	4800	43	41	0.62	n/a	n/a	160	44	n/a	36000	20	20	n/a	76	80	80	<100	<0.1	17	130	<0.5	<1000	1000	n/a	n/a	9.54	0.23	-75.7
P23-40	12/10/2019	870	2900	40	40	0.58	<1	<1	130	51	<1	41000	16	16	<2	62	60	60	<100	<0.1	17	140	<0.5	n/a	1100	<2	<20	5.32	0.21	71.4
P23-40	4/16/2020	890	4800	40	38	0.54	n/a	n/a	120	41	n/a	39000	15	14	n/a	60	60	60	<100	<0.1	17	150	<0.5	n/a	970	n/a	n/a	4.19	0.25	-12.4
P23-40	10/7/2020	950	4800	39	38	0.62	n/a	n/a	150	46	n/a	41000	18	17	n/a	74	70	70	<100	<0.1	17	130	<0.5	n/a	1000	n/a	n/a	2.08	0.27	-14.6
P23-40	6/7/2021	860	1900	37	36	0.54	n/a	n/a	120	41	n/a	38000	15	14	n/a	58	70	64	<100	<0.1	17	140	<0.5	n/a	890	n/a	n/a	5.45	0.3	40.9
P23-40	11/16/2021	810	2600	36	35	0.55	n/a	n/a	120	43	n/a	<4500	14	14	n/a	63	60	60	<100	<0.1	17	150	<0.5	n/a	760	n/a	n/a	4.58	0.92	92.3
P23-40	6/7/2022	990	2700	38	34	0.57	n/a	n/a	130	39	n/a	35000	15	15	n/a	67	70	70	<100	<0.10	17	140	0.5	n/a	940	n/a	n/a	6.73	0.74	-24.2
P23-40	12/8/2022	920	2700	37	33	0.58	<1.0	<1.0	130	43	2	55000	16	15	<2.0	68	65	60	<100.0	<0.10	17	140	<0.5	n/a	1200	<2.0	<20.0	6.81	1.09	60.2
P23-40	6/7/2023	990	3000	36	36	0.57	n/a	n/a	130	41	n/a	49000	16	15	n/a	68	70	70	<140	<0.10	17	130	0.7	n/a	990	n/a	n/a	6.88	0.27	-127.6

Paint Street Landfill Water Quality Data

Well	Date	Alkalinity (mg/L)	Ammonia (ug/L)	Arsenic (ug/L)	Arsenic-Dissolved (ug/l)	Barium (mg/L)	Beryllium (ug/L)	Cadmium (ug/L)	Calcium (mg/L)	Chloride (mg/L)	Chromium (ug/L)	COD (ug/L)	Iron (mg/L)	Iron-Dissolved (mg/l)	Lead (ug/L)	Magnesium (mg/L)	Manganese (ug/L)	Manganese-Dissolved (ug/L)	Nitrate (ug/L)	Nitrite (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Sulfate (mg/L)	Sulfide (ug/L)	TDS (mg/L)	Thallium (ug/L)	Zinc (ug/L)	Turbidity (NTU)	Dissolved Oxygen (mg/l)	Eh (mV)
OW-10	4/15/2004	330	<100	<2	<2	0.1	<10	5	117	40	<2	290000	5	0.34	14	34.2	770	n/a	580		5.6	16.8	61	n/a	670	<100	50	24		
OW-10	12/1/2004	n/a	<100	5	2	0.21	<10	<1	119	n/a	2	26000	2	0.07	<5	40.2	500	n/a	n/a		5.1	21.4	n/a	n/a	608	<100	30	38.4		
OW-10	4/13/2005	371	<100	27	<2	0.15	<10	3	120	22	<2	5000	16	<0.03	<5	36.9	290	n/a	410		2.9	15.6	57	n/a	608	<100	20	34.3		
OW-10	10/19/2005	392	<100	6	<2	0.13	<10	7	125	22	<2	<5000	6.6	0.1	5	34	600	n/a	<100		3.6	16.4	53	<1000	512	<100	20	n/a		
OW-10	12/8/2005	n/a	n/a	<200	<2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6.3	0.06	n/a	n/a	620	n/a	n/a		n/a	19.8	n/a	n/a	n/a	n/a	n/a	n/a		
OW-10	4/27/2006	320	<100	<2	<2	0.14	<10	<1	103	29	<2	6000	5.5	5.3	<5	26	540	n/a	<100		4.2	23	59	n/a	570	<100	<20	20		
OW-10	11/10/2006	278	<100	<2	<2	0.11	<10	<1	100	31	<2	<5000	4.2	4.3	<5	24	500	n/a	<100		3.9	22	83	<1000	360	<100	<20	3.11		
OW-10	6/11/2007	280	<100	<2	<2	0.11	<10	<1	108	23	<2	<5000	3.7	3.7	<5	25	480	n/a	<100		4	21	69	n/a	400	<100	<20	1.23	0.23	112
OW-10	10/24/2007	280	<100	<2	2	0.1	<10	<1	106	25	<2	<5000	3.5	3.5	<5	23	460	n/a	<100		3.6	19	74	<1000	400	<100	<20	2.27	0.49	106
OW-10	6/5/2008	270	<100	2	<2	0.11	<10	2	108	23	<2	<5000	4	3.2	<5	26	470	n/a	<100		4	19	70	n/a	420	<100	<20	11.43	1.7	46
OW-10	10/21/2008	290	<100	<2	<2	0.11	<10	1	115	28	<2	<5000	3.9	3.3	<5	26	500	n/a	<100		4.1	20	73	<1000	380	<100	<20	n/a	0.61	-42
OW-10	5/20/2009	285	<100	3	<2	0.11	<10	17	104	26	<2	<5000	3.7	0.98	<5	28	430	n/a	<100		3.6	15	76	n/a	430	<100	30	20.17	3.01	-87
OW-11	4/15/2004	510	110	4	<2	0.13	<10	6	241	23	<2	21000	7.4	0.04	<5	56	1000	n/a	1300		3.9	29	20	n/a	970	<100	20	17		
OW-11	11/3/2004	438	<100	<2	<2	0.15	<10	<1	140	35	<2	8000	1.6	<0.03	<5	47	590	n/a	<100		4.5	40	85	<1000	640	<100	<20	19.4		
OW-11	4/13/2005	530	<100	<2	<2	0.11	<10	5	196	21	<2	<5000	1.7	0.04	<5	53.5	300	n/a	590		2.2	27.7	160	n/a	784	<100	<20	15.3		
OW-11	10/19/2005	446	160	<2	<2	0.14	<10	12	134	35	<2	<5000	0.94	0.03	<5	43.7	910	n/a	<100		3.2	32.5	81	<1000	616	<100	<20	n/a		
OW-11	12/9/2005	n/a	n/a	<200	<2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.43	<0.03	n/a	n/a	1300	n/a	n/a		n/a	29.7	n/a	n/a	n/a	n/a	n/a	n/a		
OW-11	4/27/2006	420	<100	<2	<2	0.19	<10	1	113	32	2	11000	7.5	3	<5	46	620	n/a	250		4.8	32	43	n/a	700	<100	<20	98		
OW-11	11/10/2006	396	<100	4	<2	0.13	<10	2.6	137	26	9	10000	9.3	1.5	10	43	590	n/a	260		4.5	26	124	<1000	640	<100	<20	34.73		
OW-11	6/11/2007	390	<100	<2	<2	0.18	<10	<1	115	34	<2	<5000	0.87	0.52	<5	38	150	n/a	<100		4.1	32	55	n/a	540	<100	<20	4.81	0.47	98
OW-11	11/8/2007	390	<100	<2	<2	0.2	<10	<1	107	40	<2	<5000	4.5	3.8	<5	38	670	n/a	<100		4.9	33	55	<1000	460	<100	<20	5.56	0.39	100
OW-11	6/6/2008	370	<100	<2	n/a	0.13	<10	<1	150	21	<2	<5000	0.86	n/a	<5	40	20	n/a	430		4	22	140	n/a	600	<100	<20	8.49	1.16	107
OW-11	10/21/2008	360	<100	<2	<2	0.2	<10	<1	113	34	<2	<5000	3.1	<0.03	<5	37	530	n/a	<100		4.8	32	71	<1000	460	<100	<20	n/a	0.87	-79
OW-11	6/2/2009	370	<100	<2	<2	0.19	<10	<1	103	37	<2	<5000	0.98	1.5	<5	35	150	n/a	280		4.8	31	72	n/a	520	<100	<20	12.08	4.1	54
Paint Creek Boat Ramp	11/28/2017	260	<100	1	<1	0.068	n/a	n/a	74	22	n/a	<10000	0.72	0.03	n/a	32	37	17	3100	<0.10	3.2	9.3	28	<1000	320	n/a	n/a	17.21	9.56	186.5
Paint Creek Bridge	11/28/2017	250	<100	1	<1	0.06	n/a	n/a	72	22	n/a	12000	0.76	0.02	n/a	30	38	15	3100	<0.10	3.3	9.6	27	<4000	330	n/a	n/a	18.73	10.91	264.5

1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

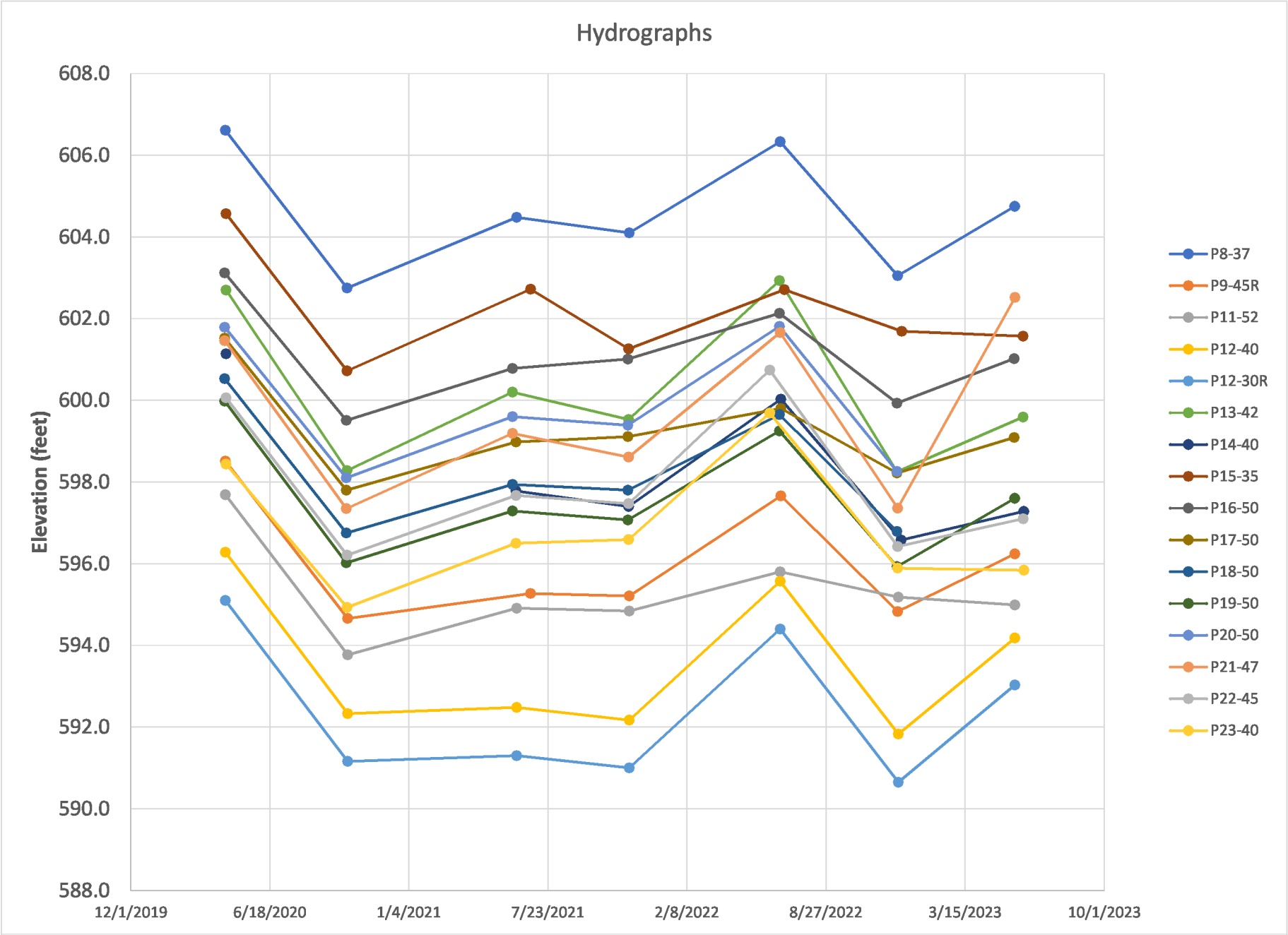
Appendix C Groundwater Level Data

WestRock Monitoring Program
Paint Street Landfill
Chillicothe, Ohio

Well ID	Date/Time	Depth to Water (feet)	Reference Elevation (feet)	Water Elevation (feet)
P8-37	5/25/2023 9:00	15.80	620.55	604.75
P9-45R	5/25/2023 14:26	22.42	618.66	596.24
P11-52	5/25/2023 13:23	23.14	618.13	594.99
P12-40	5/25/2023 12:15	20.0	614.18	594.18
P12-30R	5/25/2023 11:19	20.62	613.65	593.03
P13-42	6/6/2023 11:51	28.84	628.43	599.59
P14-40	6/7/2023 10:48	31.45	628.73	597.28
P15-35	6/6/2023 10:48	9.70	611.27	601.57
P16-50	5/24/2023 14:19	18.30	619.32	601.02
P17-50	5/24/2023 15:13	17.66	616.75	599.09
P18-50	5/24/2023 16:59	19.43	617.75	598.32
P19-50	5/25/2023 10:12	19.27	616.87	597.60
P20-50	5/24/2023 16:09	19.05	618.99	599.94
P21-47[a]	5/25/2023 15:20	22.34	624.86	602.52
P22-45	6/6/2023 12:54	22.67	619.77	597.10
P23-40	6/7/2023 11:51	26.20	622.04	595.84

Notes:

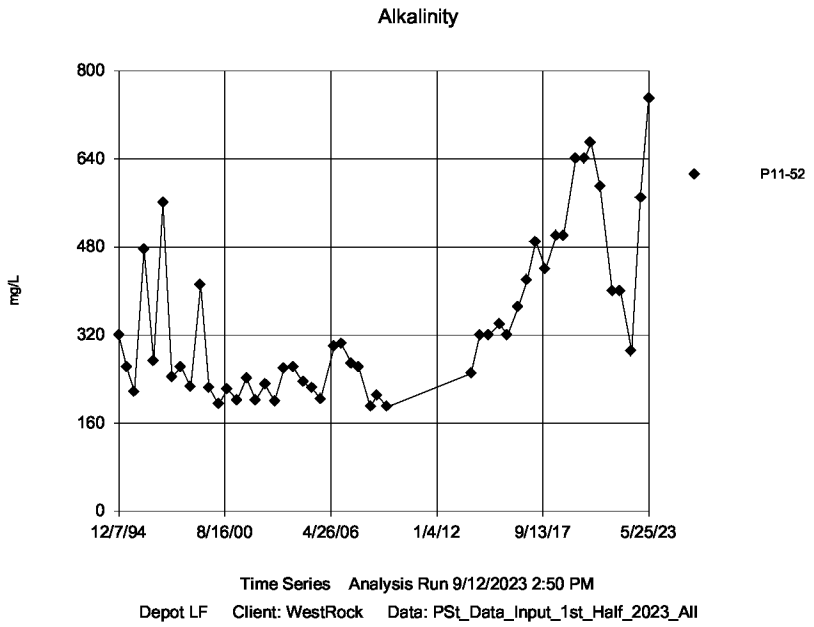
[a] - Calculated water level appears anomolous


Hydrographs
Elevation (feet)
608.0
606.0
604.0
602.0
600.0
598.0
596.0
594.0
592.0
590.0
588.0
12/1/2019
6/18/2020
1/4/2021
7/23/2021
2/8/2022
8/27/2022
3/15/2023
10/1/2023
P8-37
P9-45R
P11-52
P12-40
P12-30R
P13-42
P14-40
P15-35
P16-50
P17-50
P18-50
P19-50
P20-50
P21-47
P22-45
P23-40

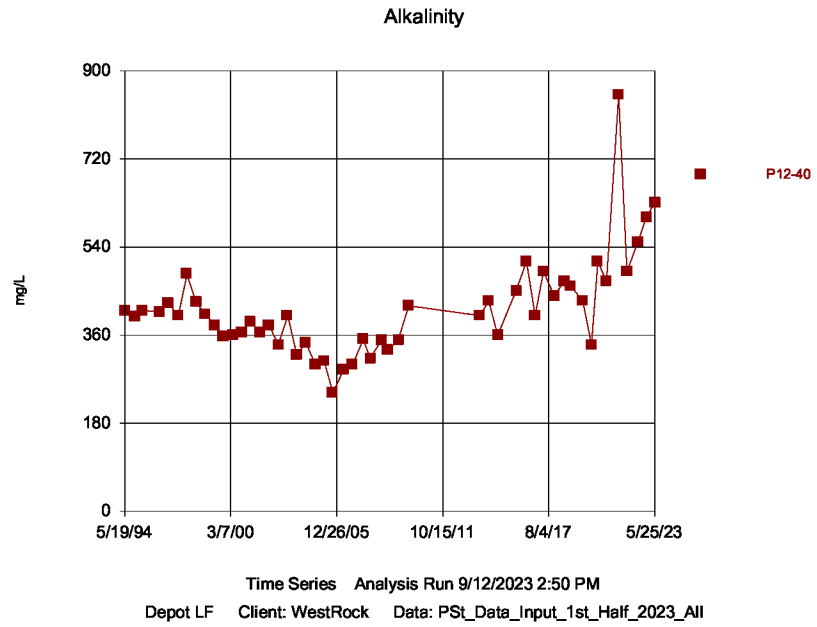
1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

Appendix D Time Series Plots

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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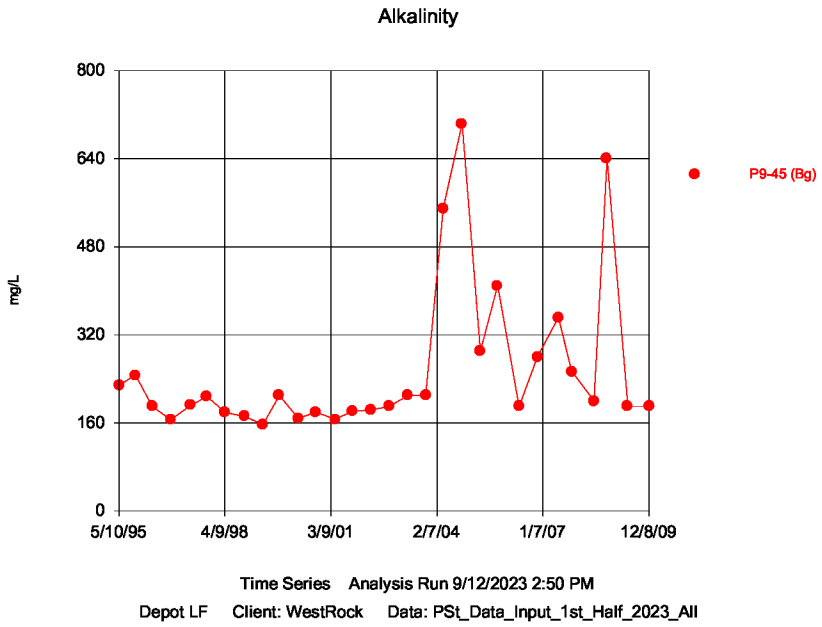

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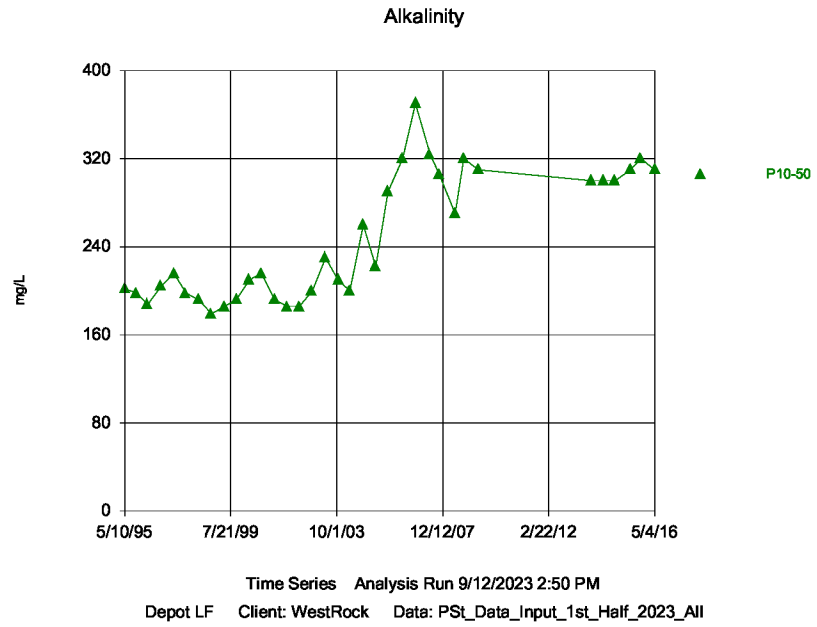
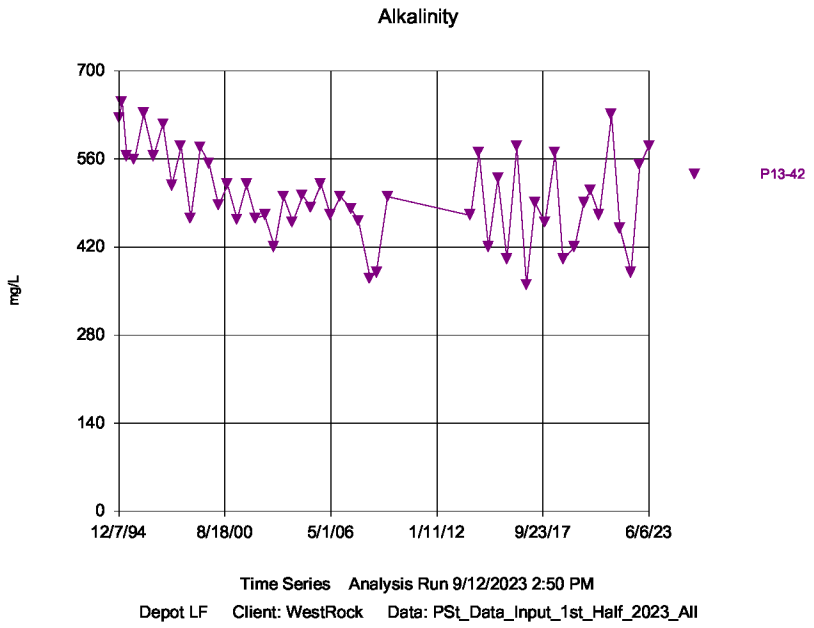
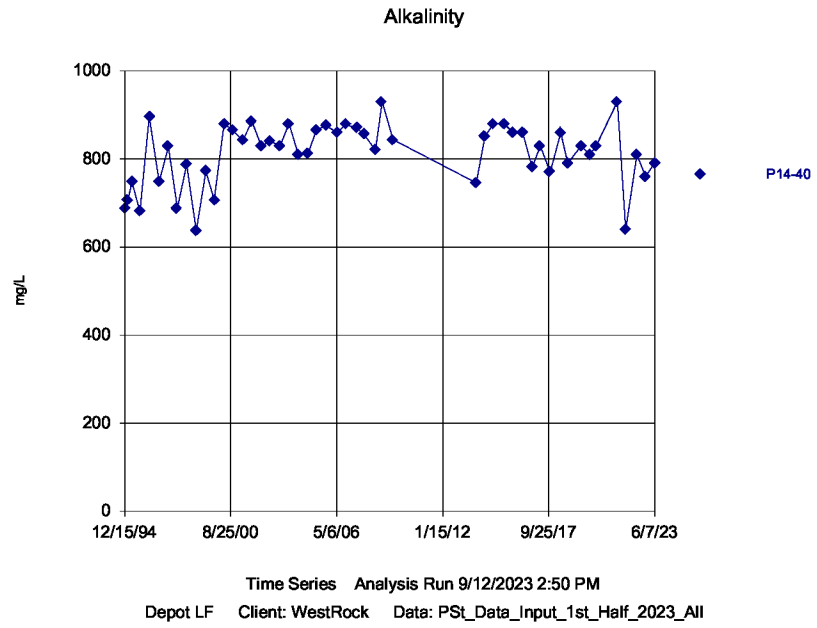


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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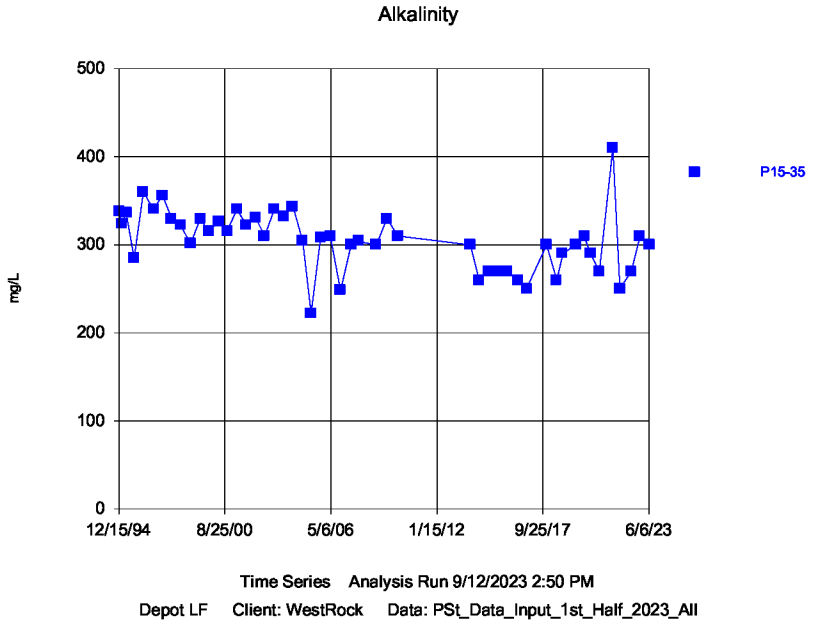

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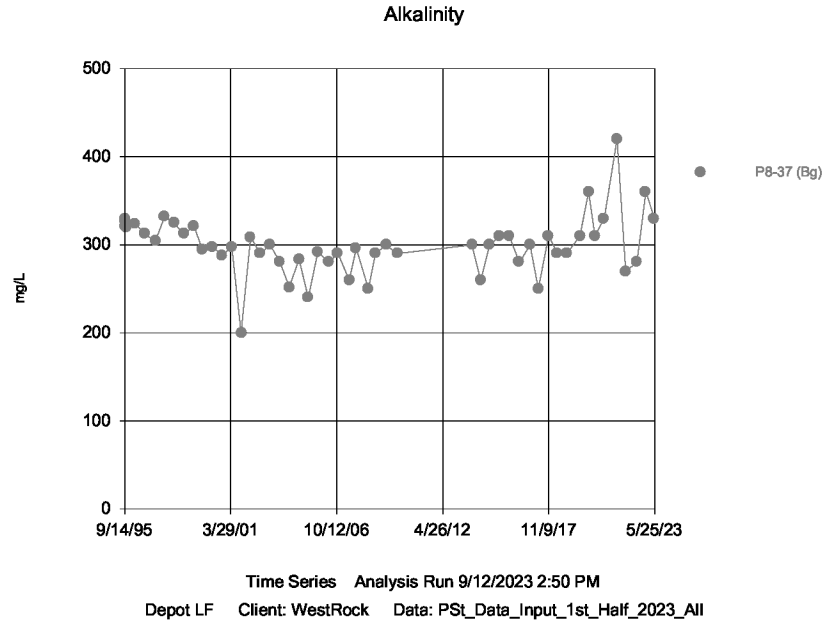

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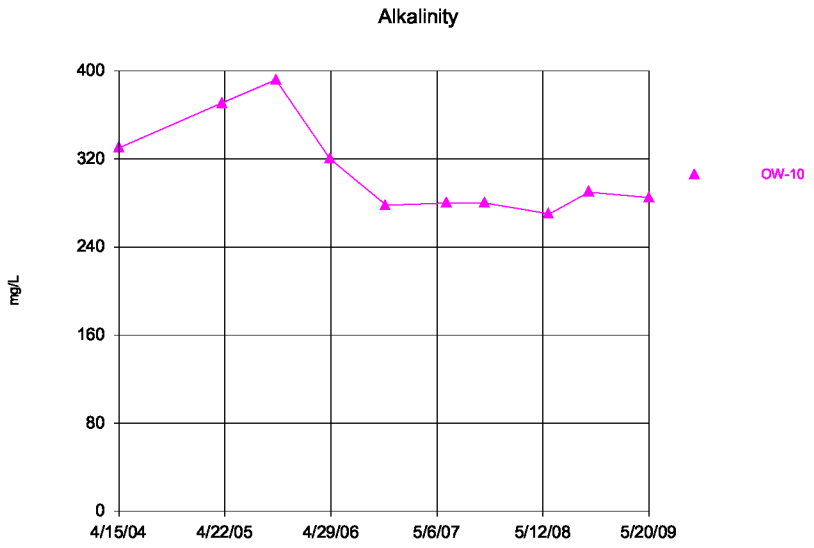

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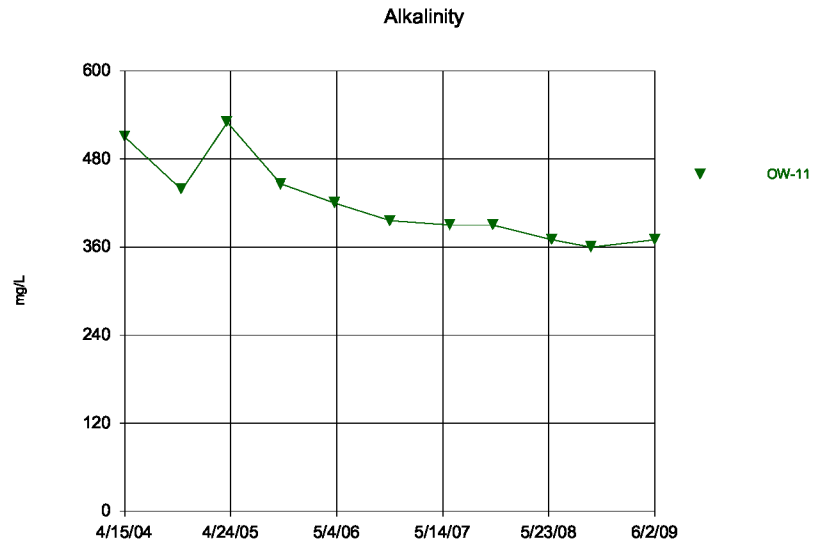
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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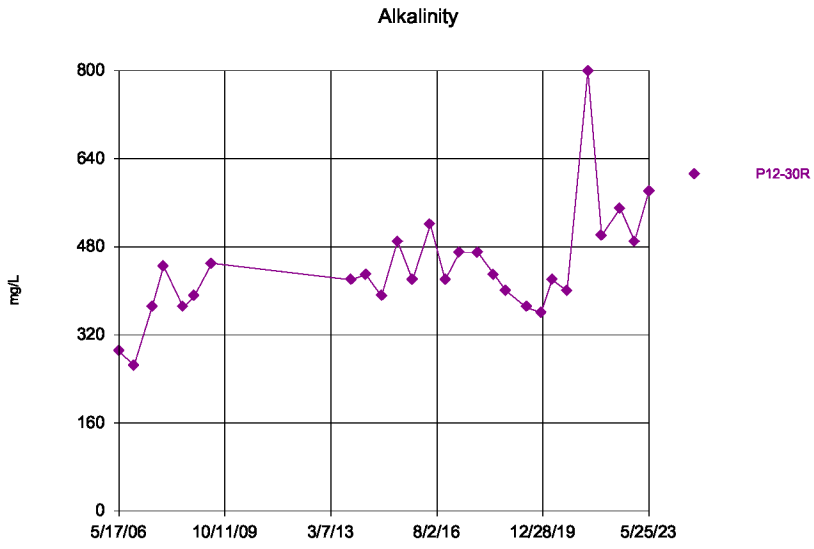

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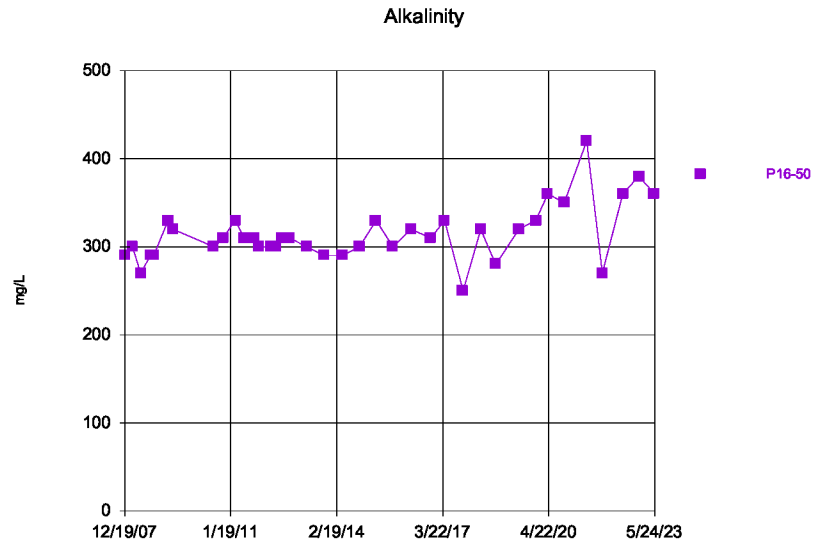
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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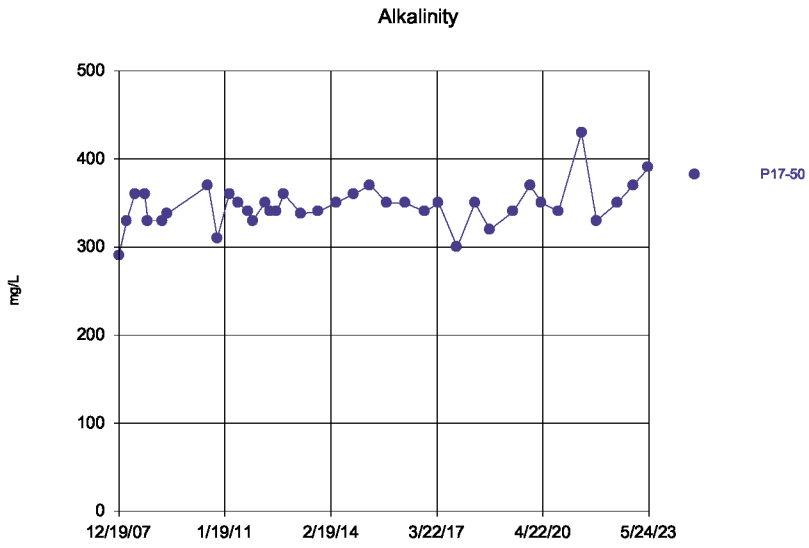

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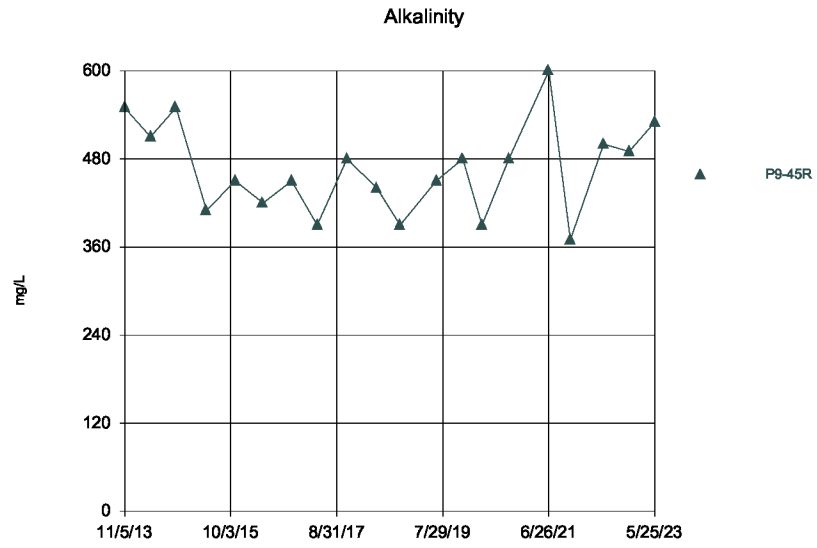

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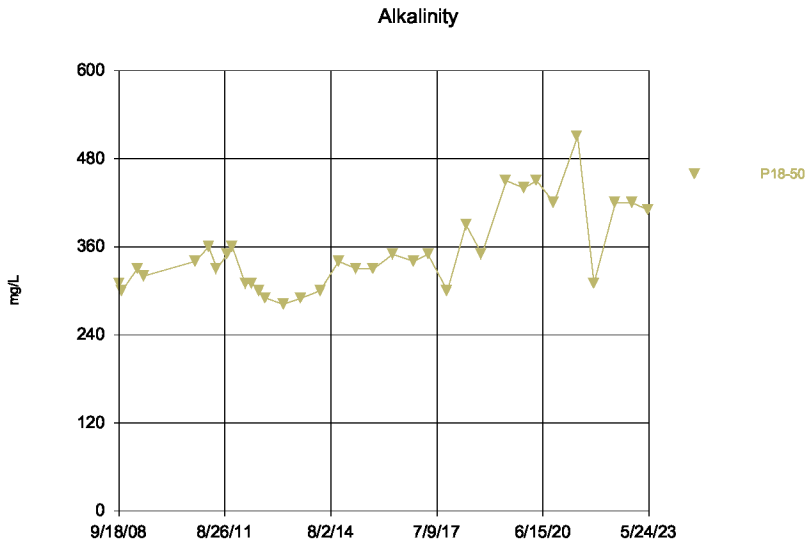

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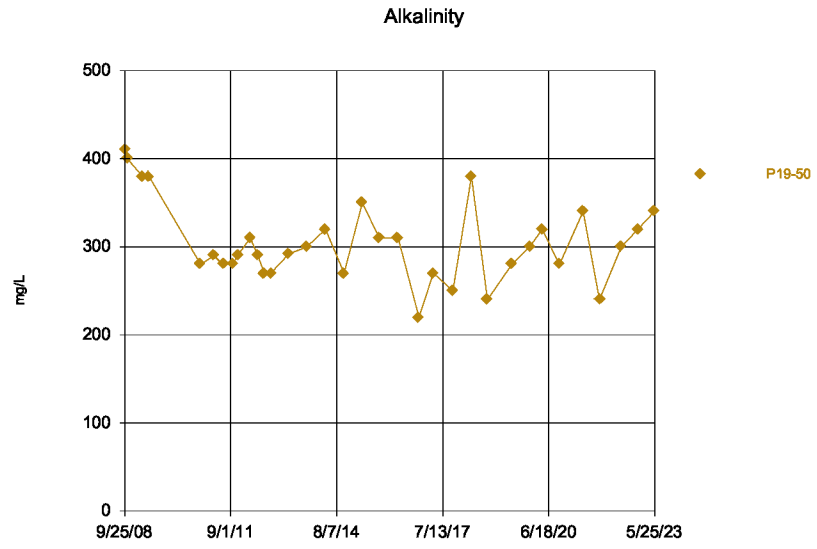

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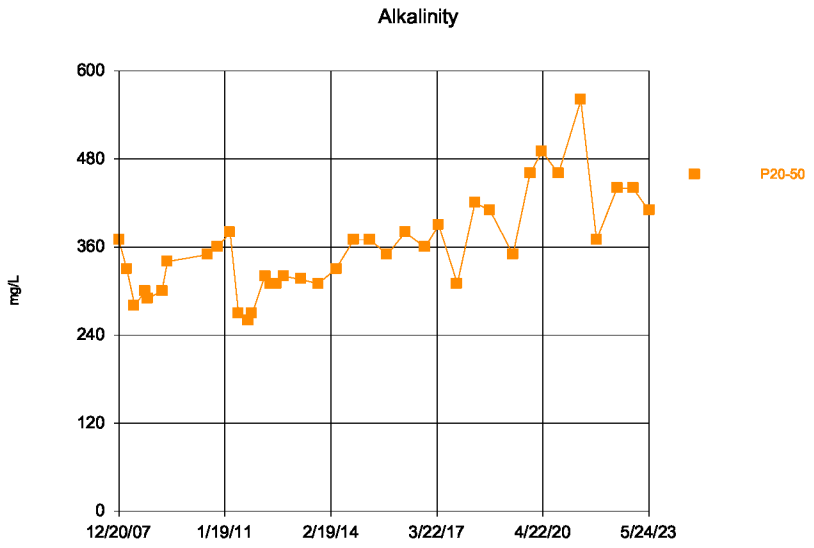

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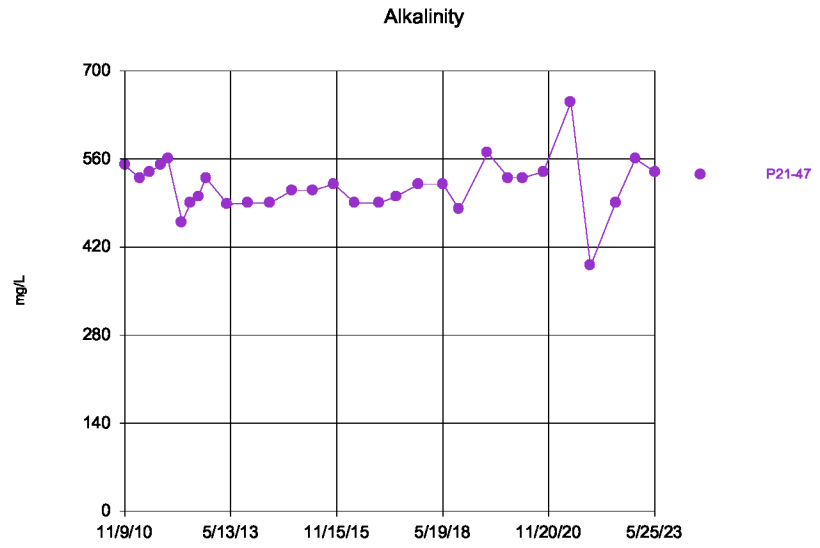

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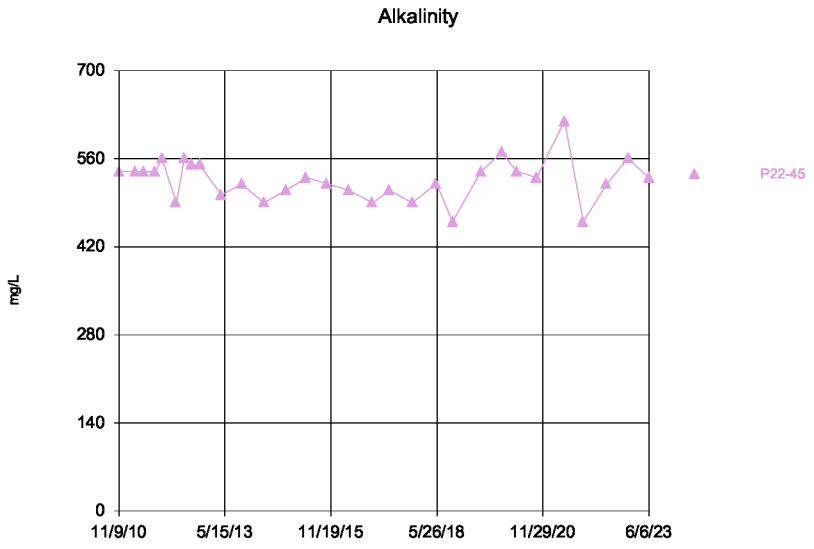

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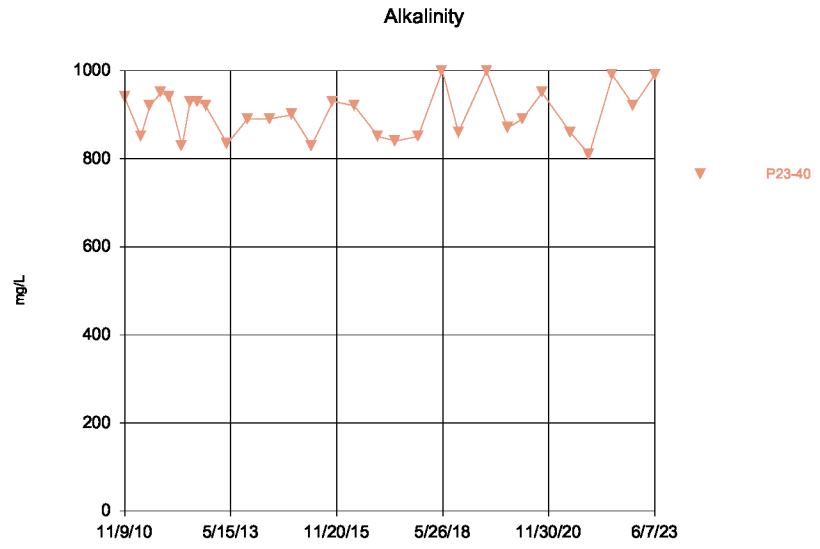

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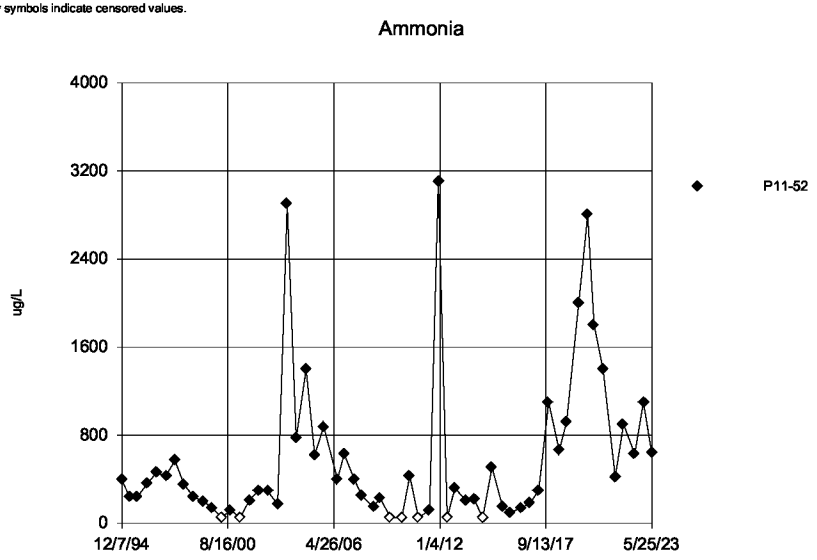

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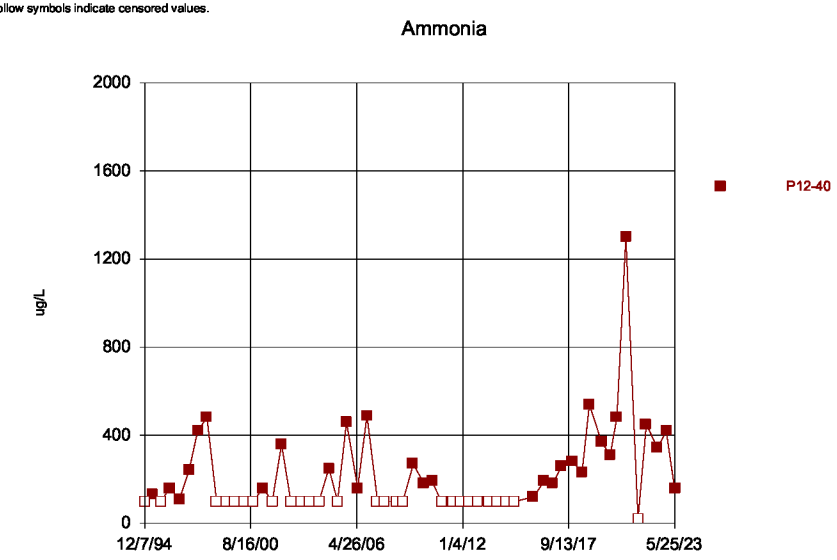

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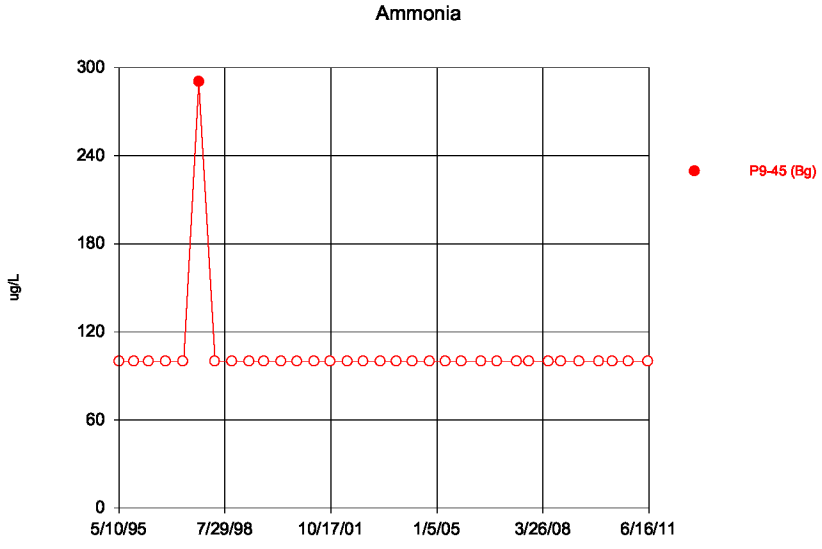

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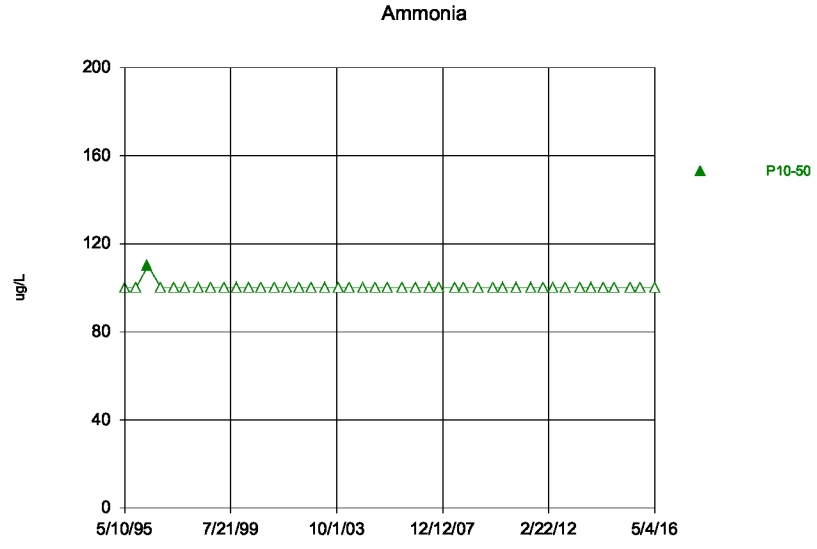

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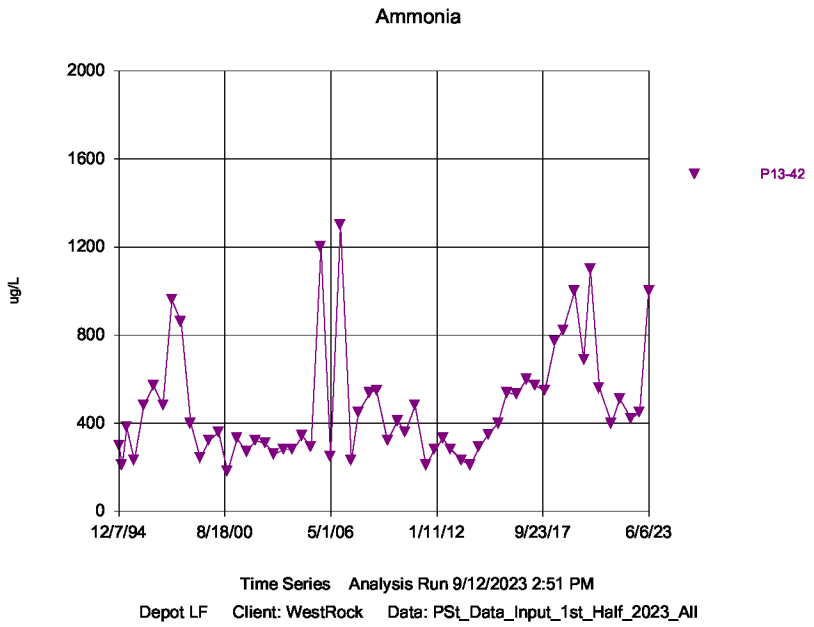

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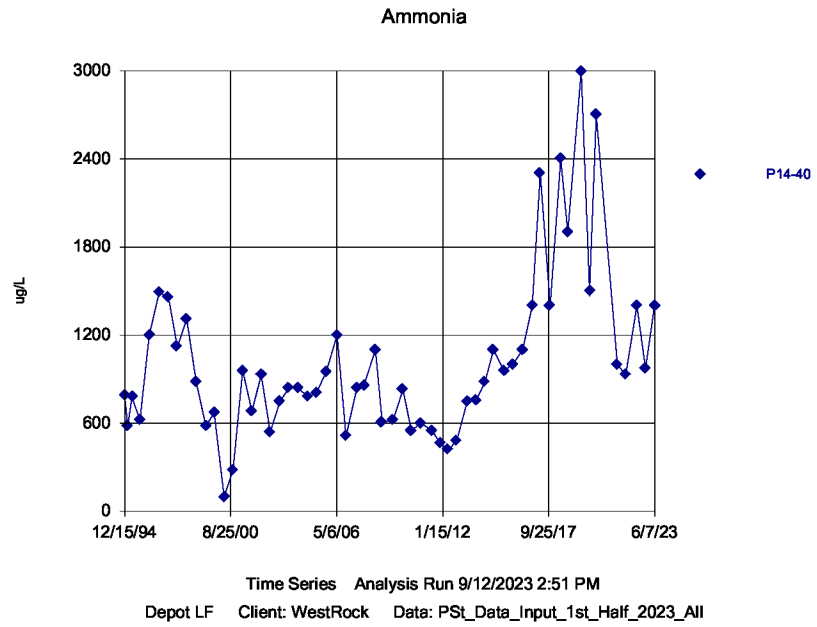

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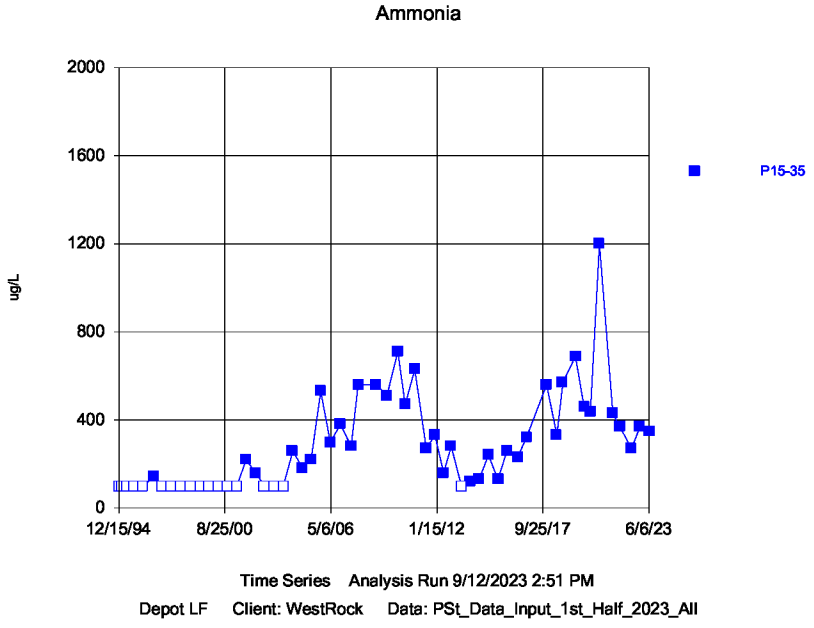

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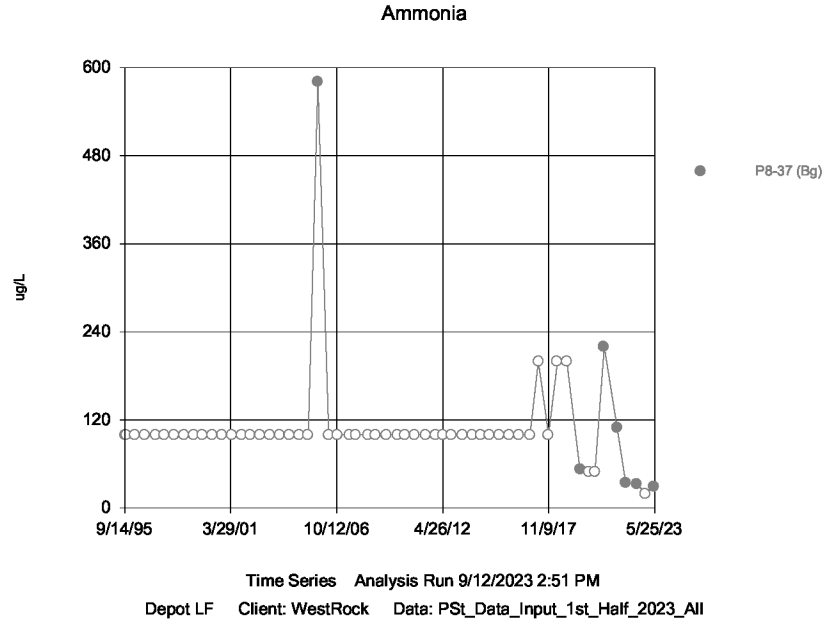

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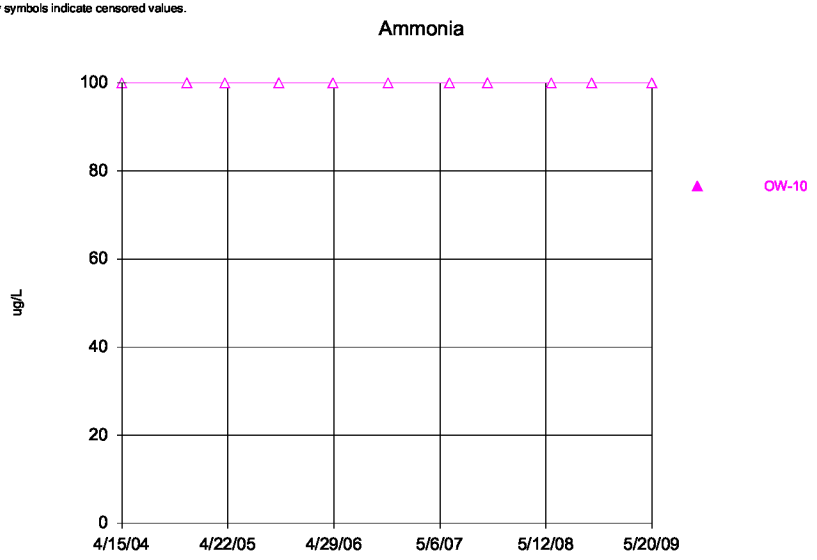

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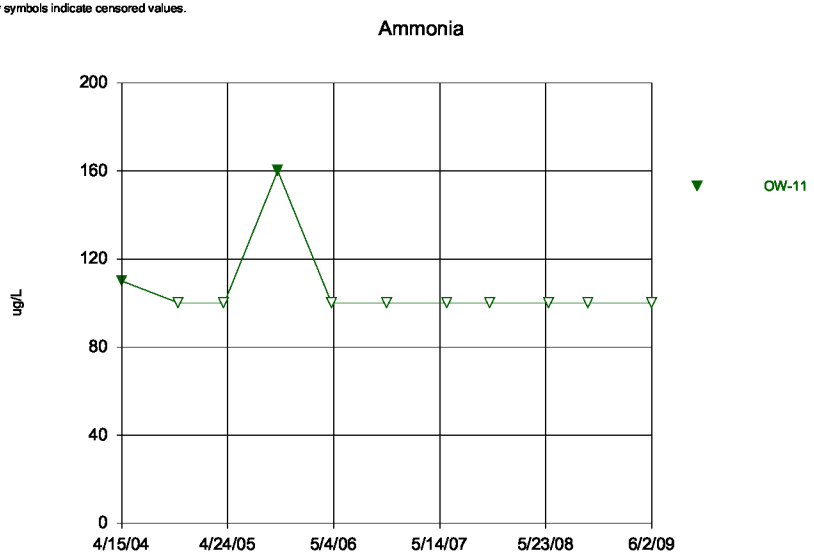

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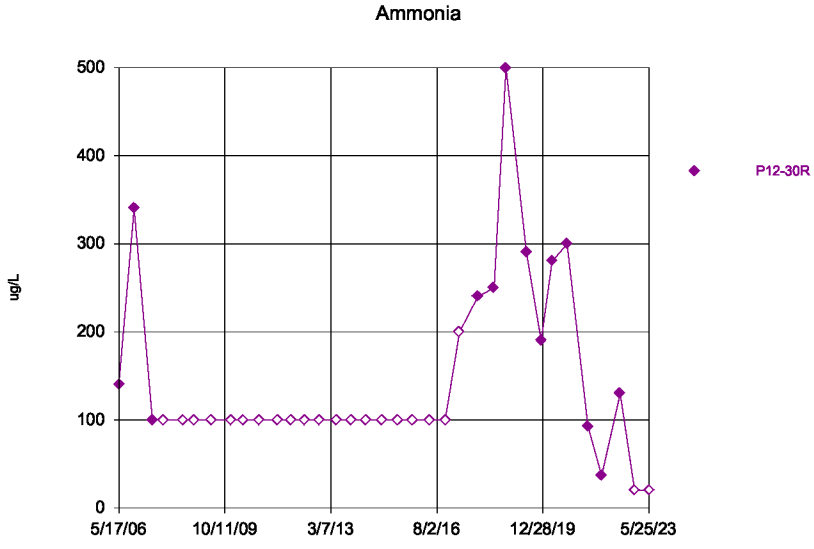

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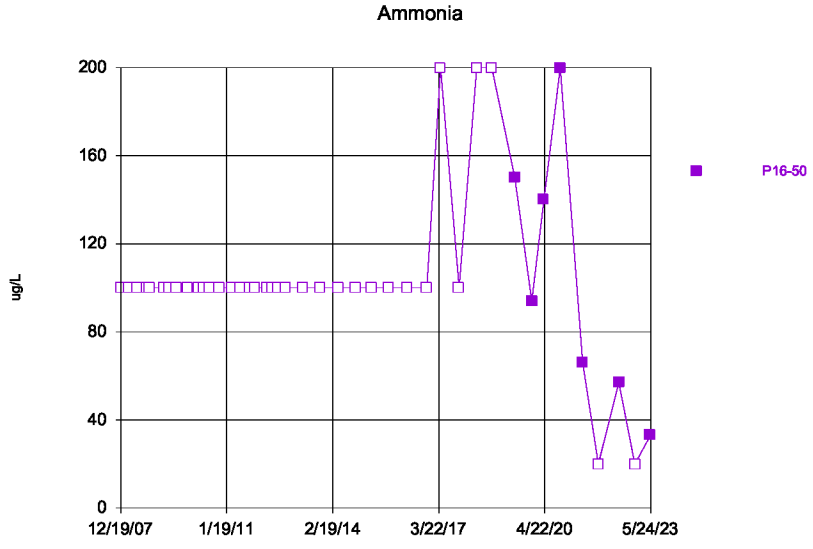

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Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

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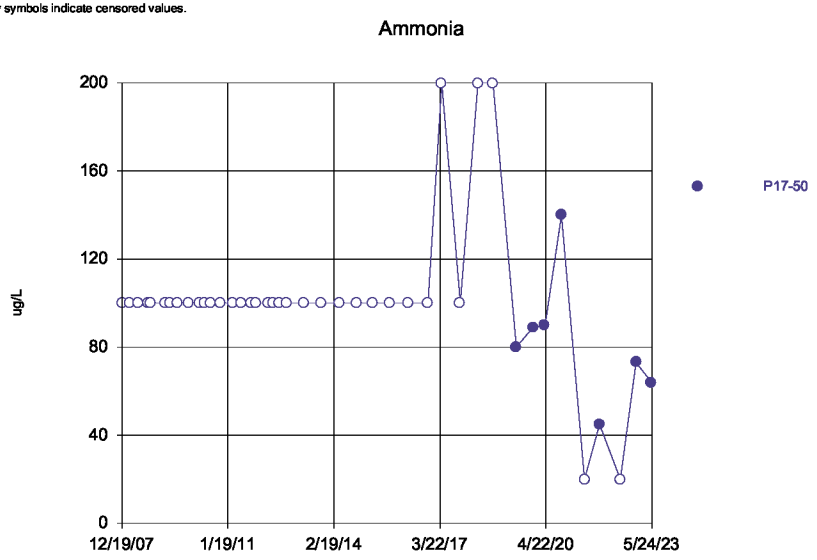
Hollow symbols indicate censored values.



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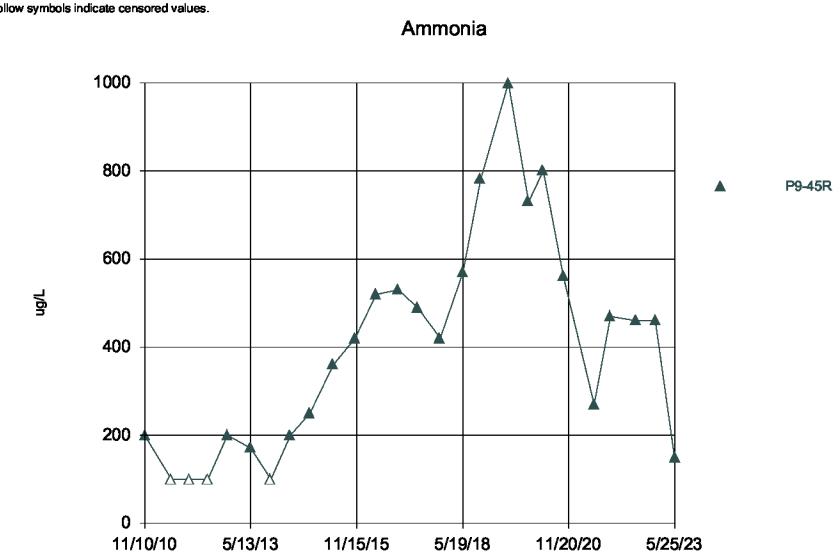

Time Series Analysis Run 9/12/2023 2:51 PM
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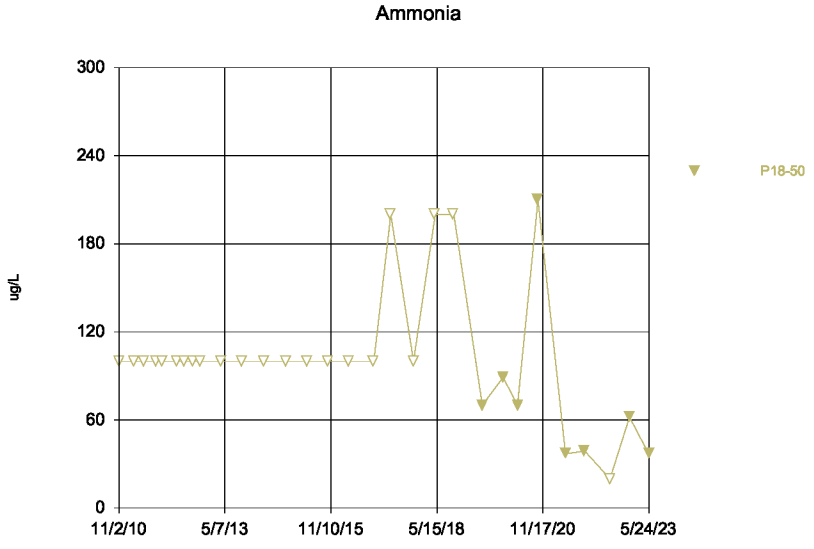
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Time Series Analysis Run 9/12/2023 2:51 PM
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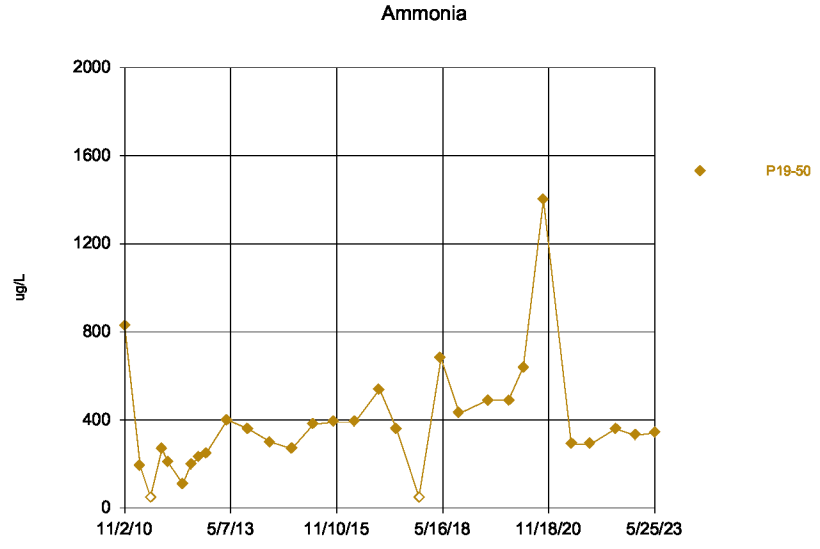
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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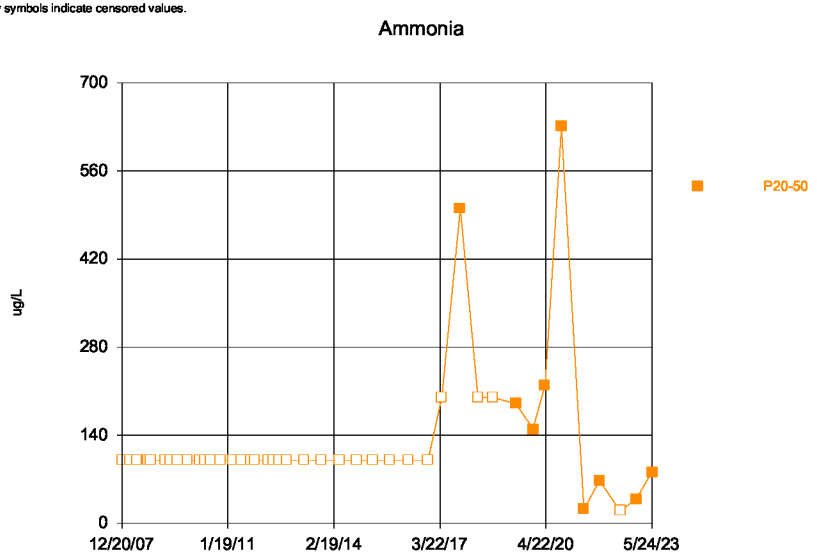

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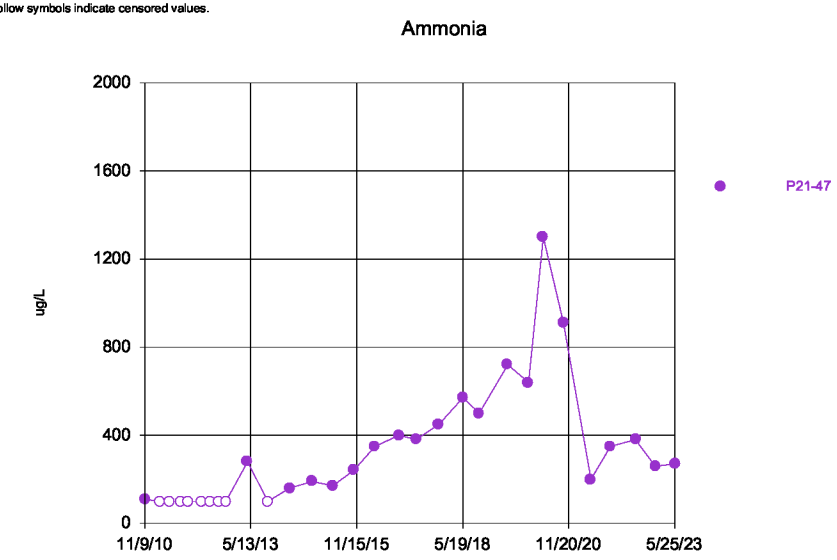

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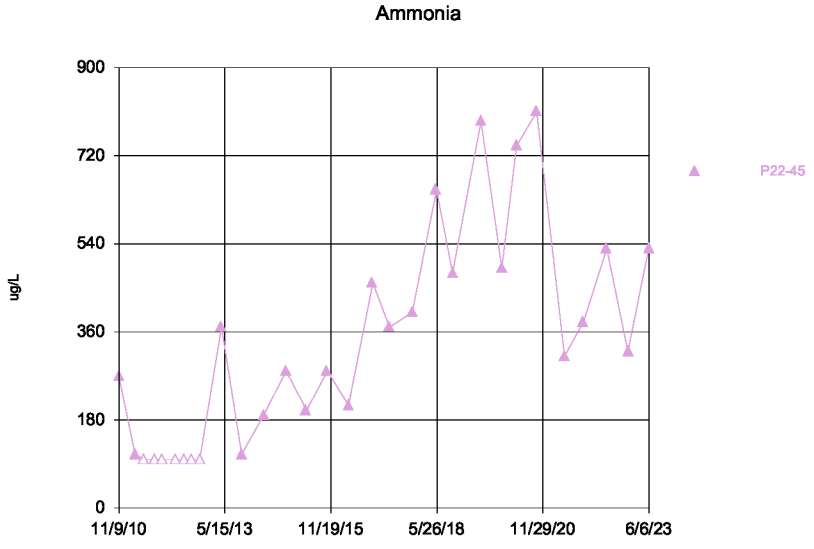

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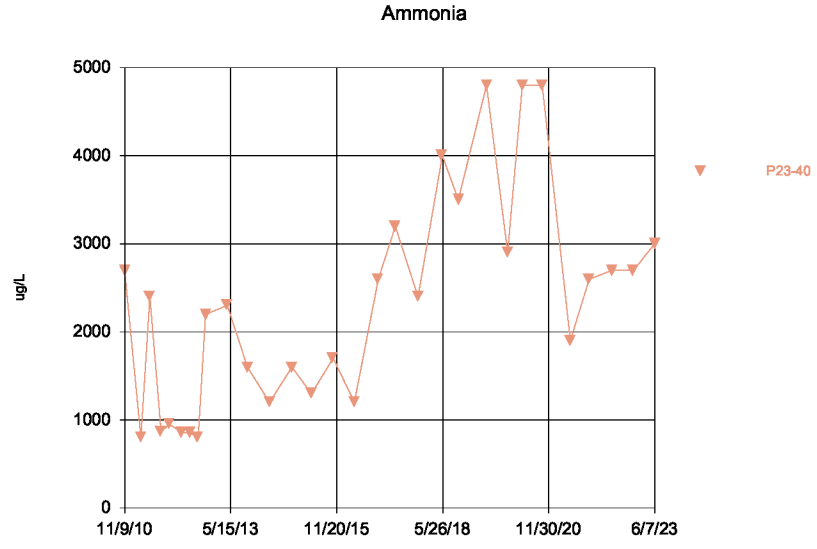

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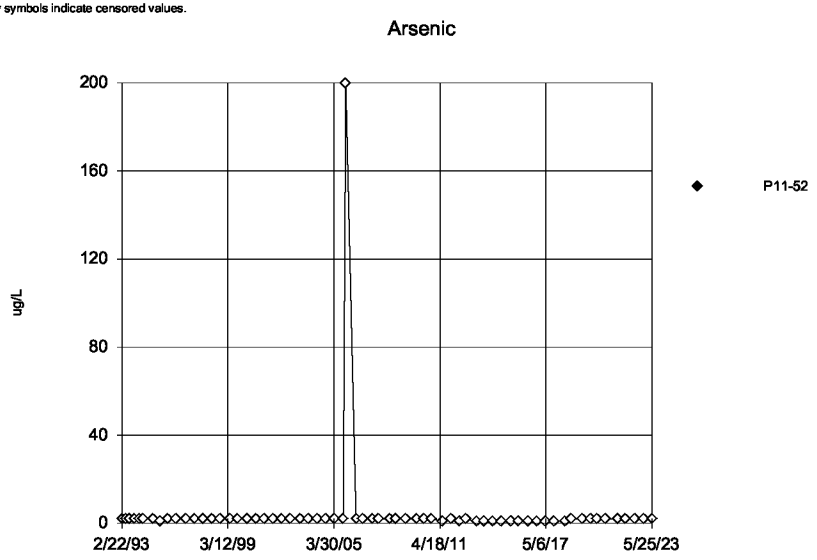

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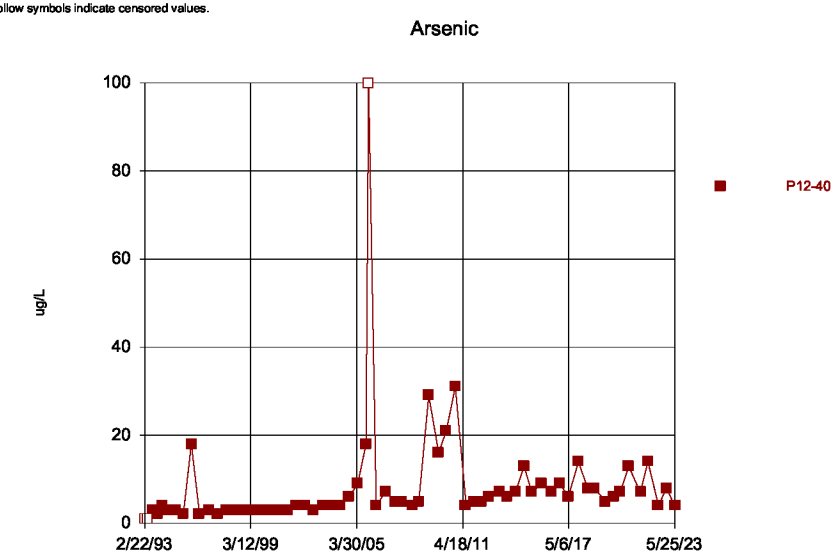

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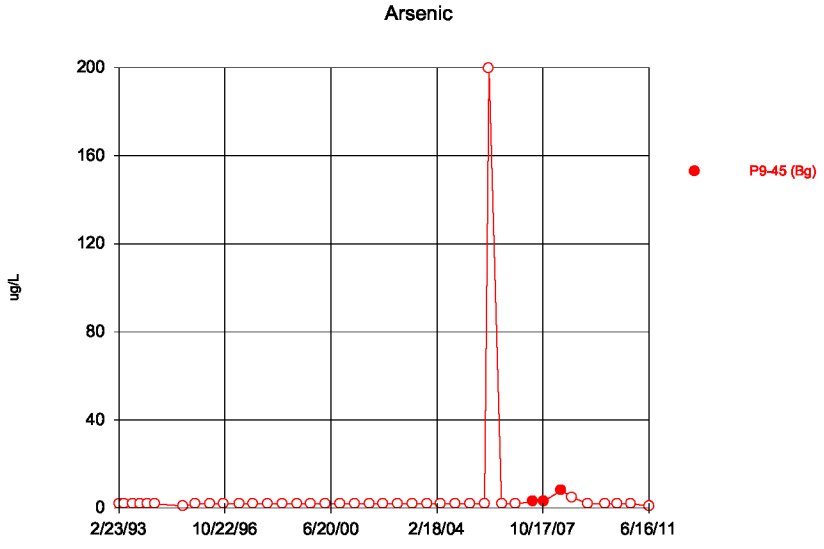

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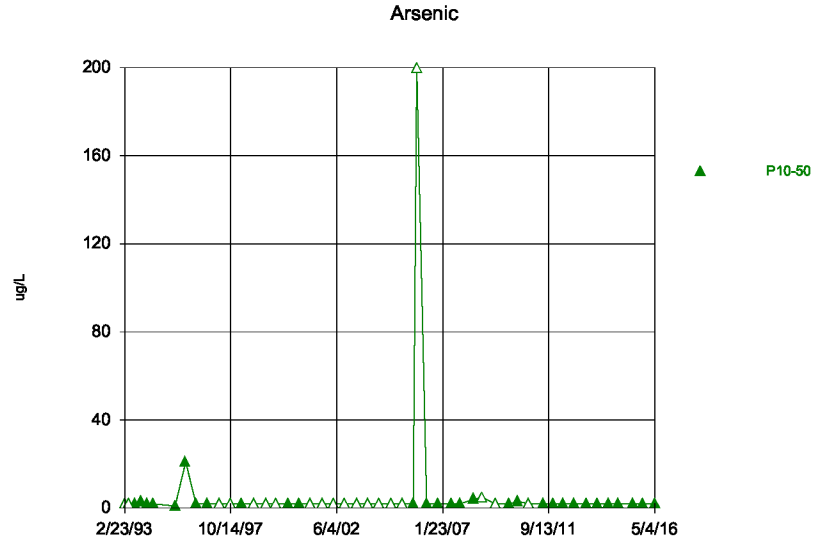

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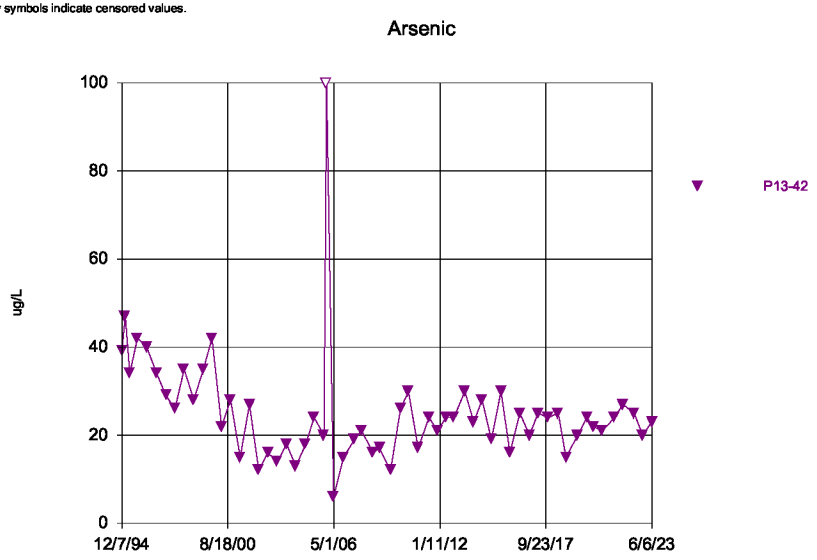

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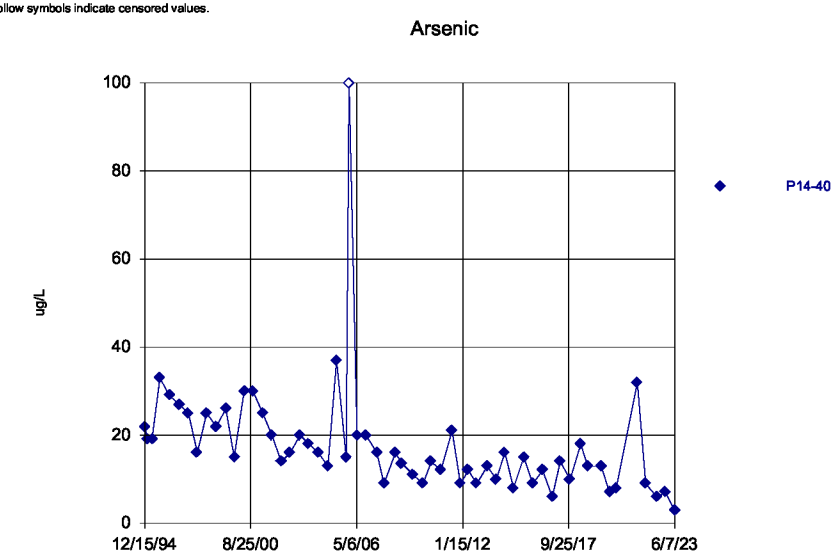

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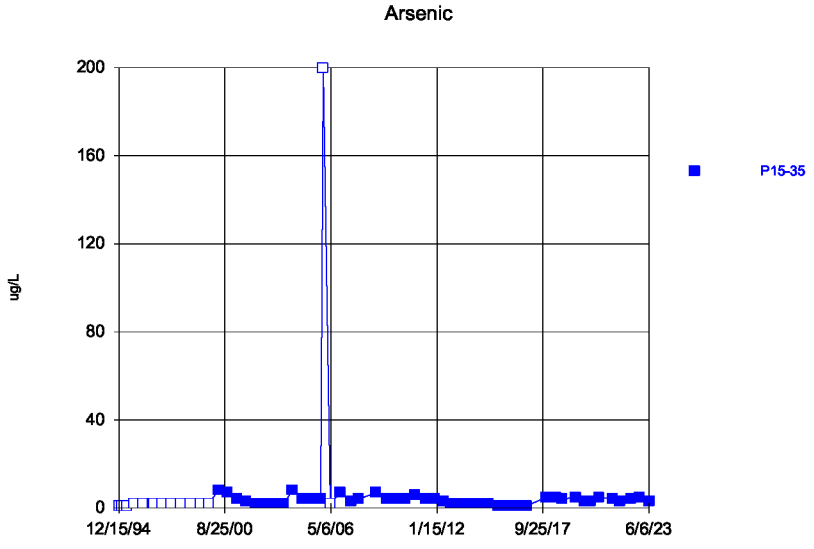

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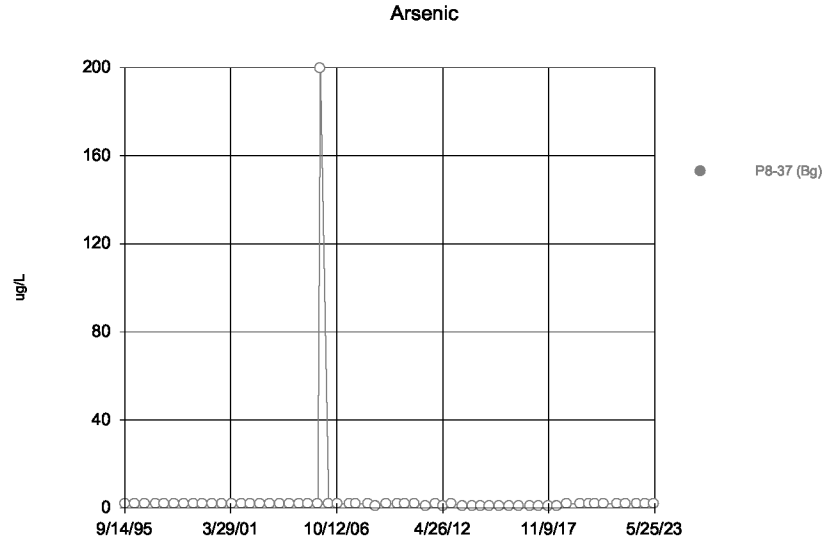

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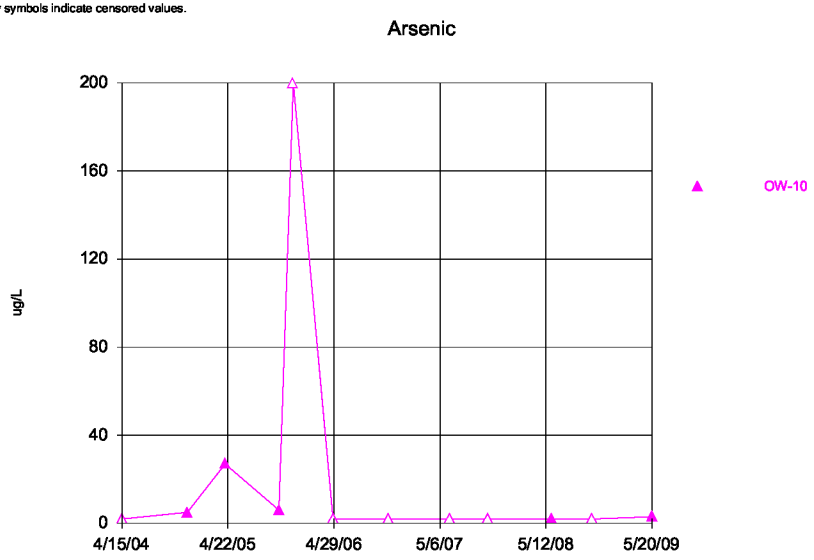

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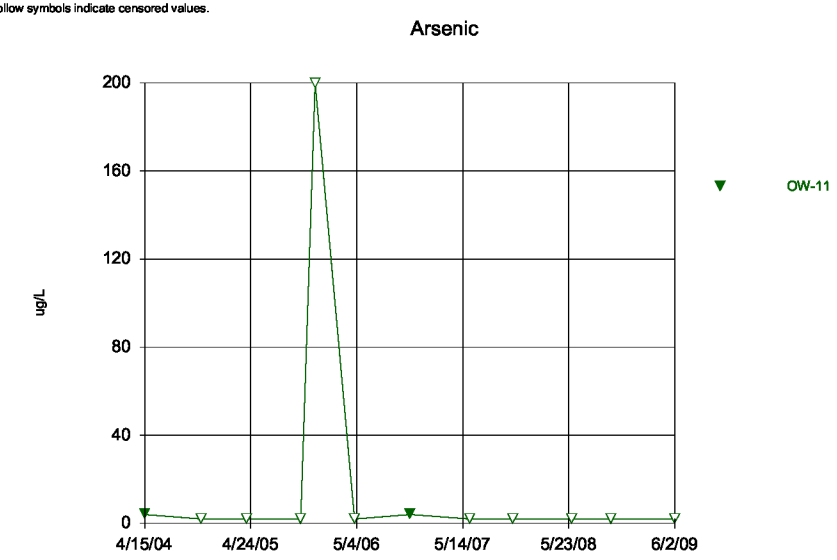

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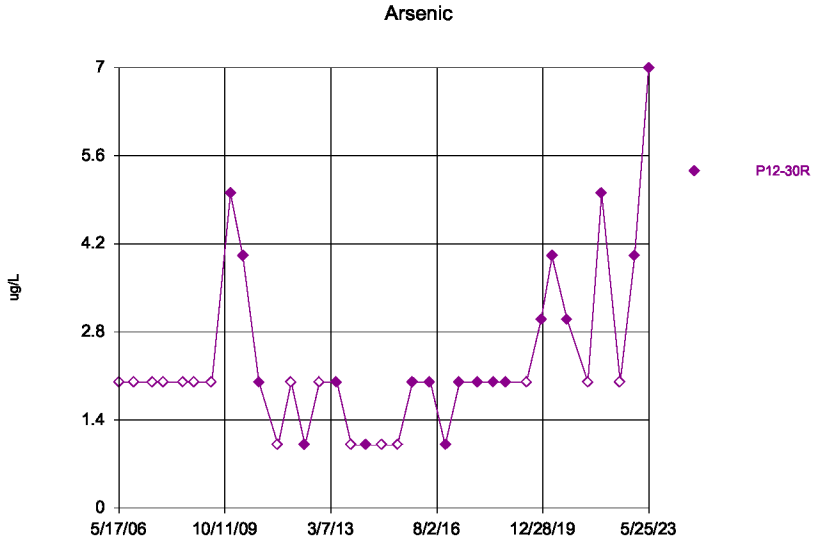

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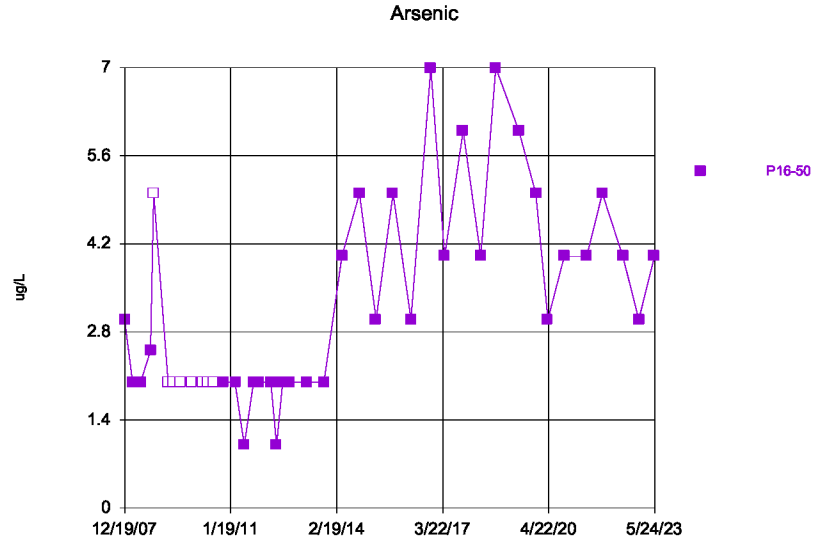

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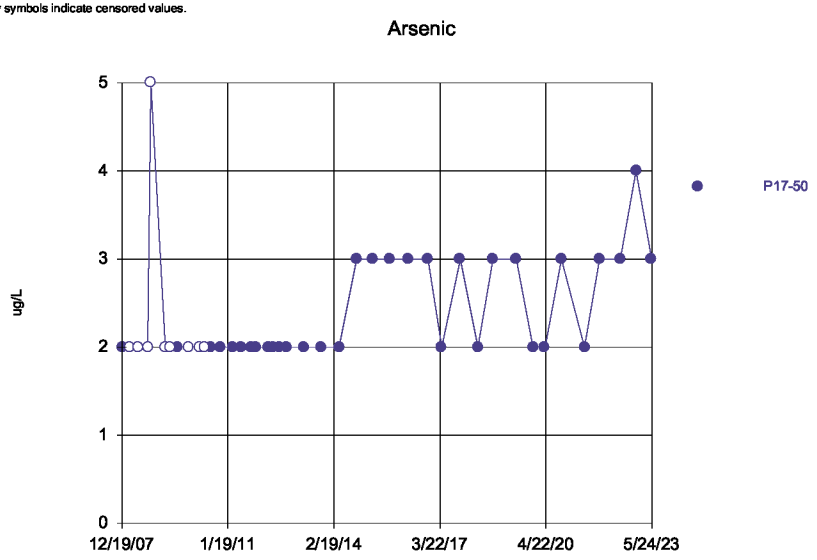

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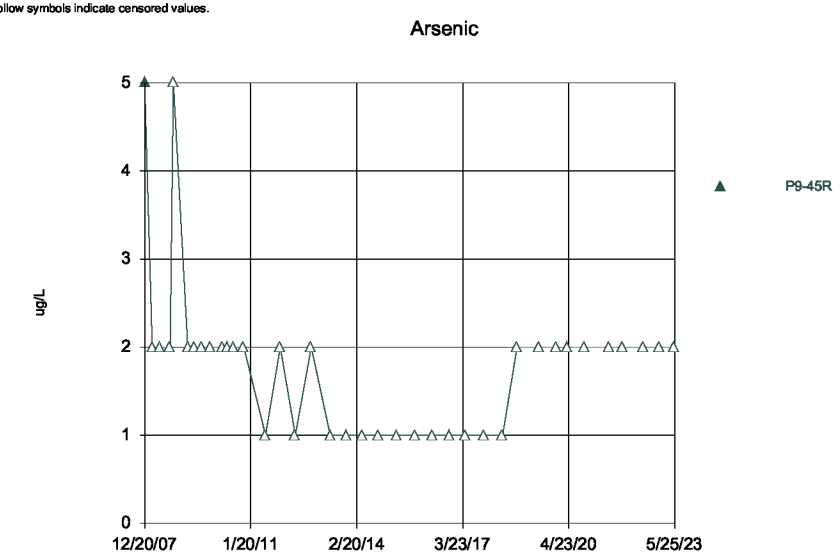

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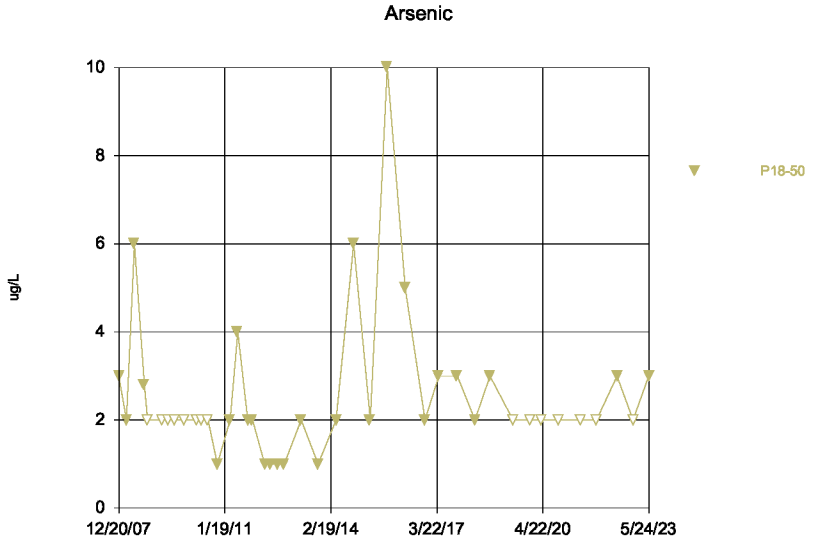

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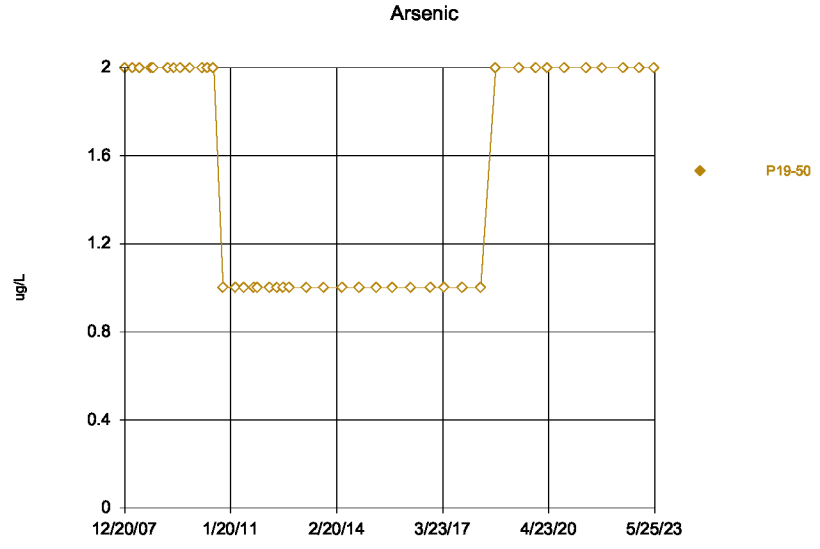

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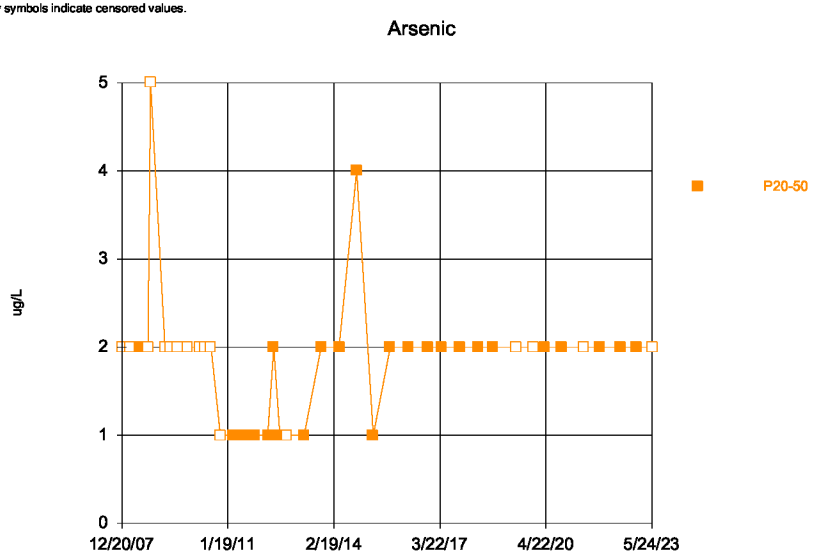

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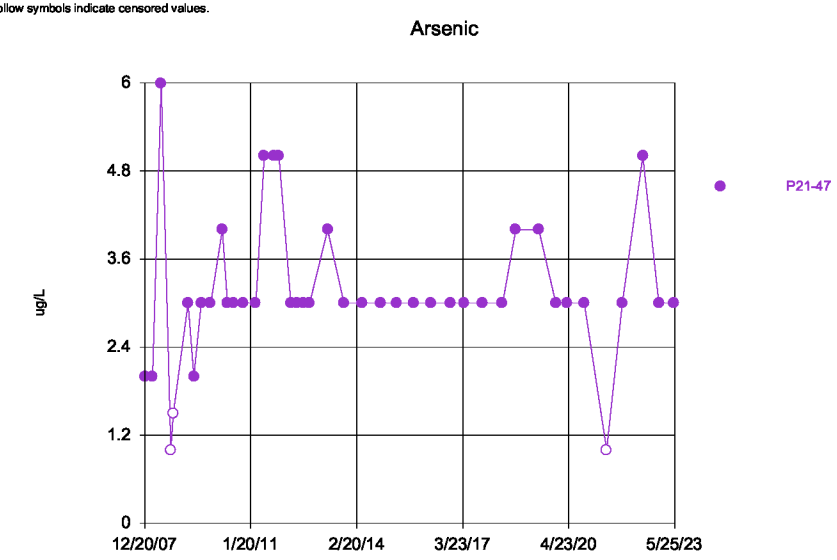

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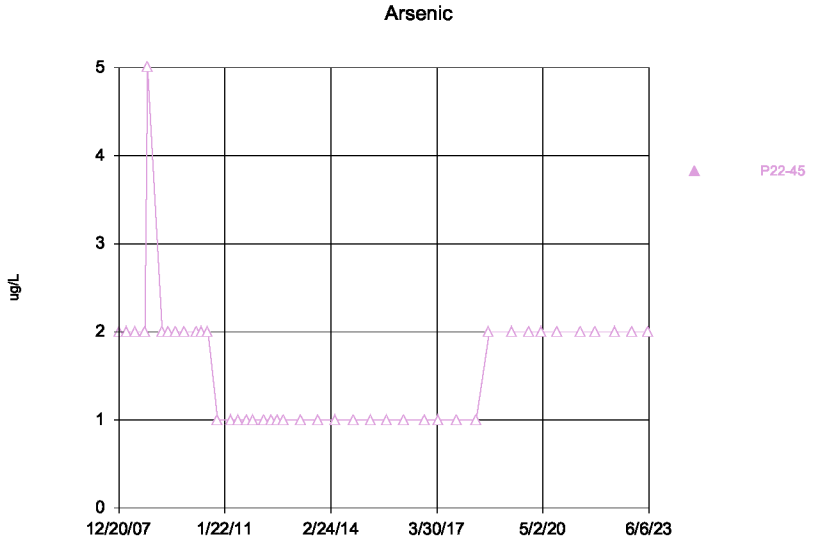

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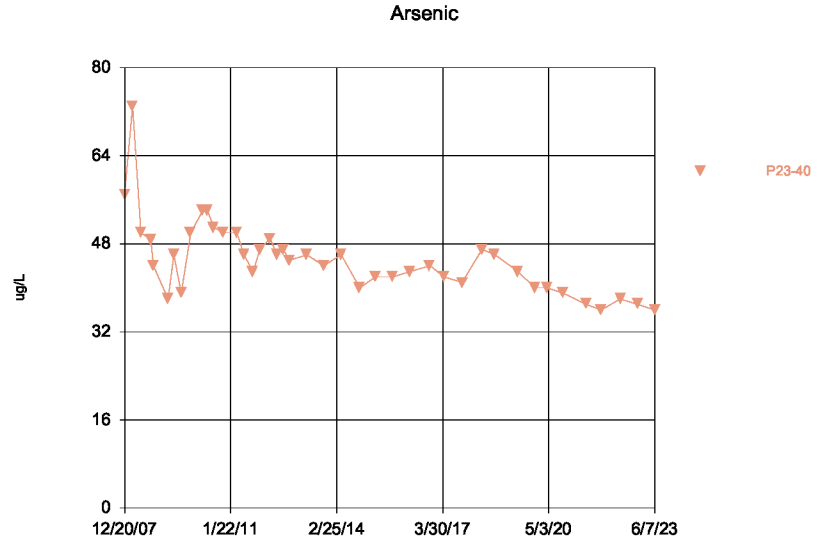

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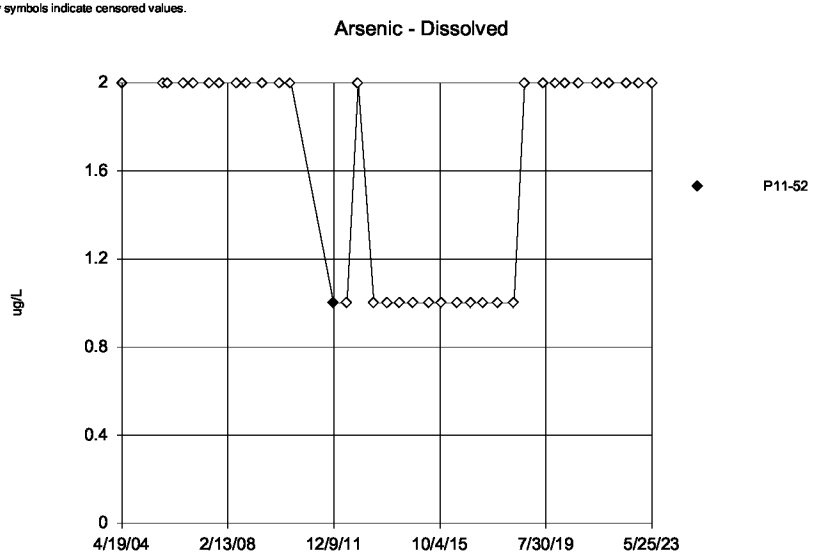

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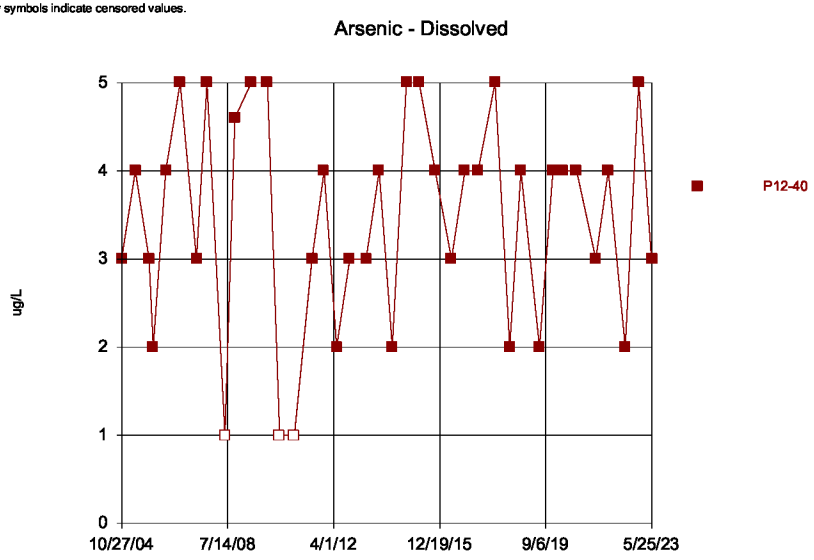

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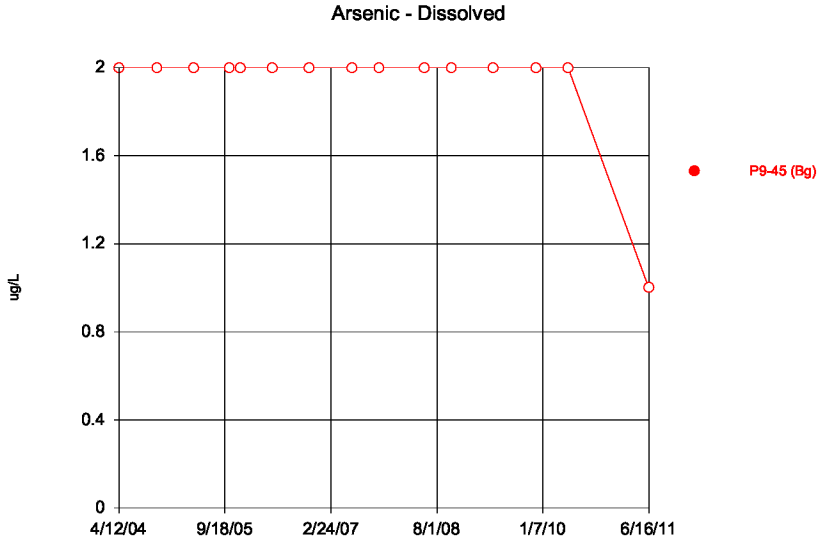

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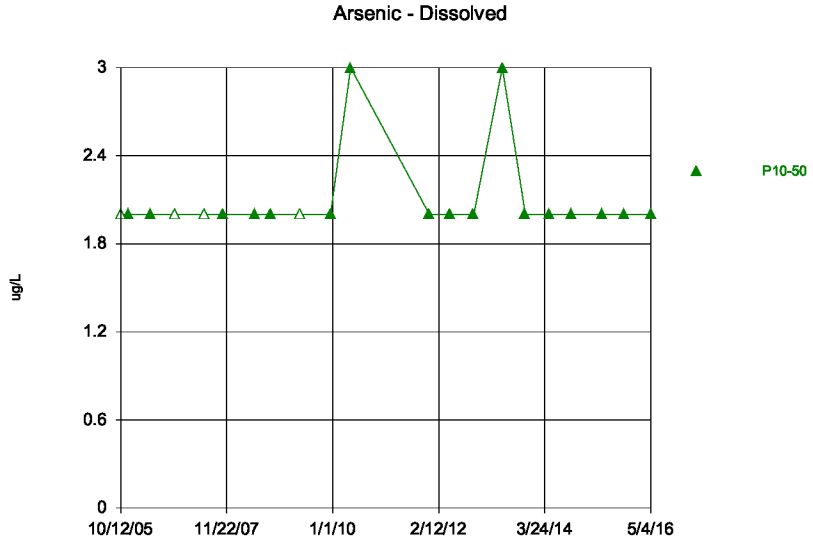

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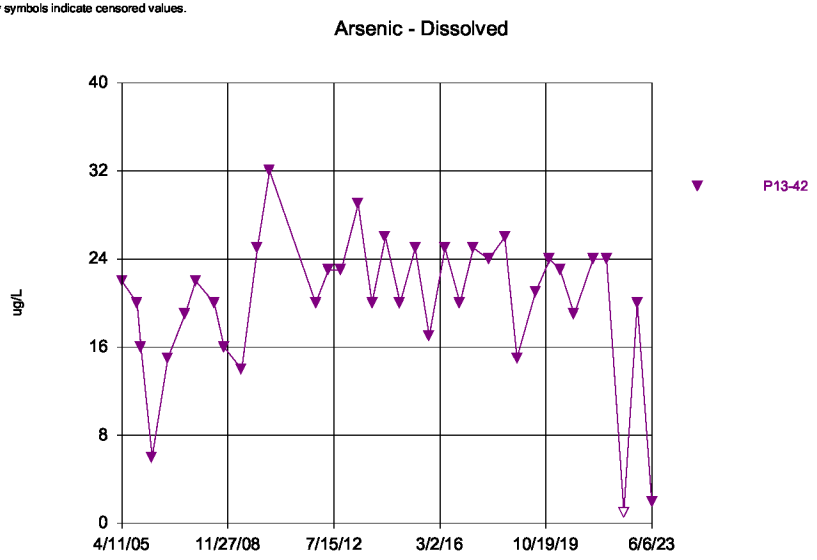

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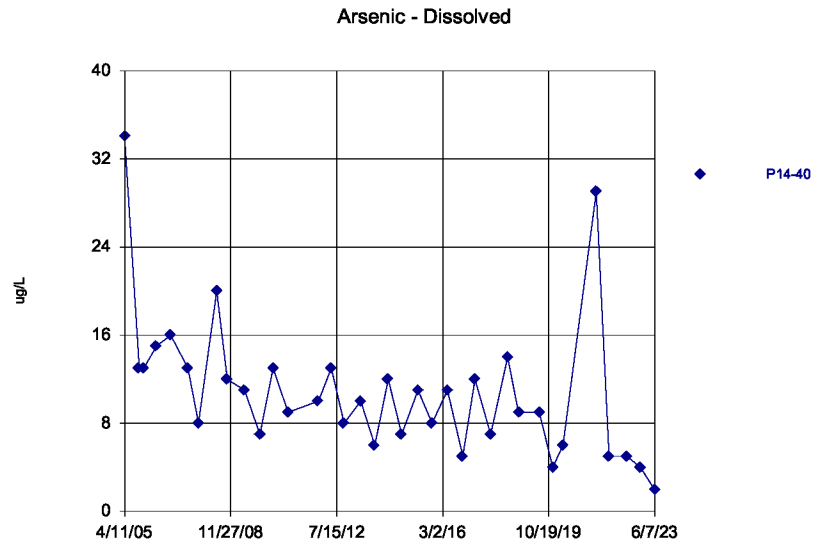

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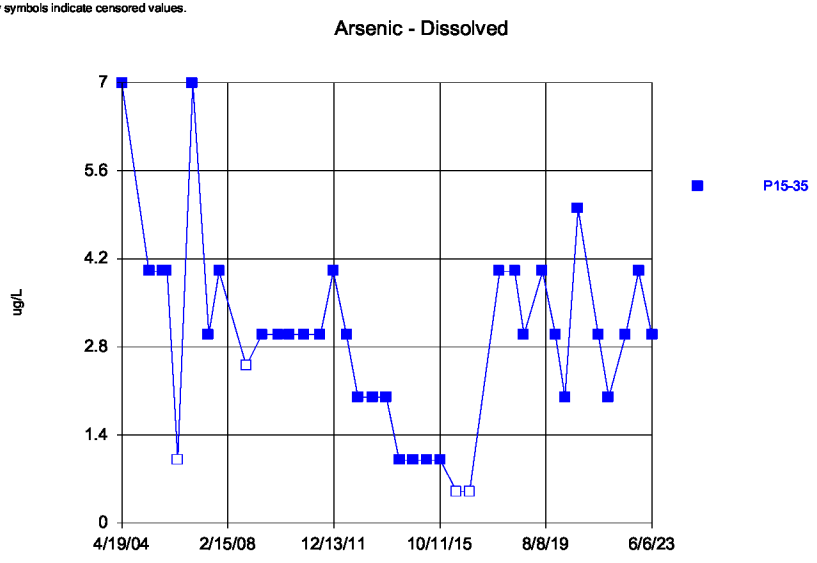

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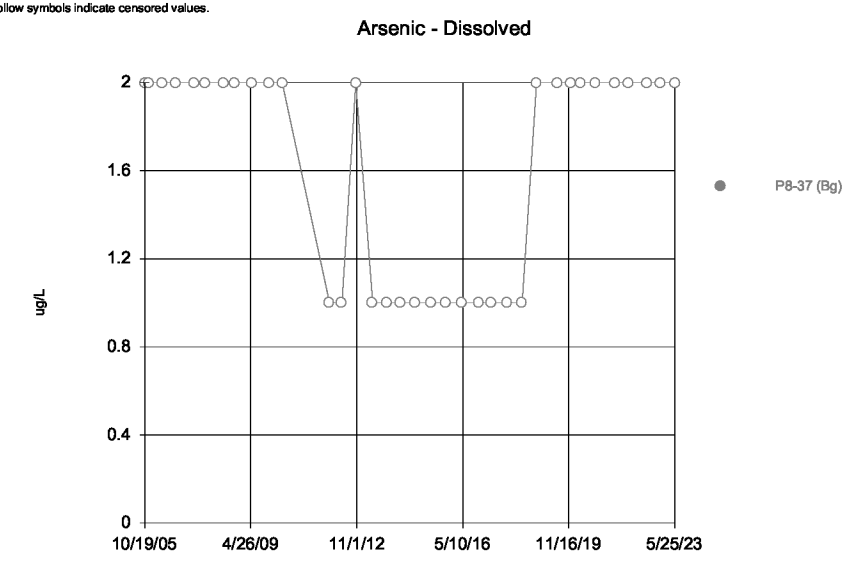

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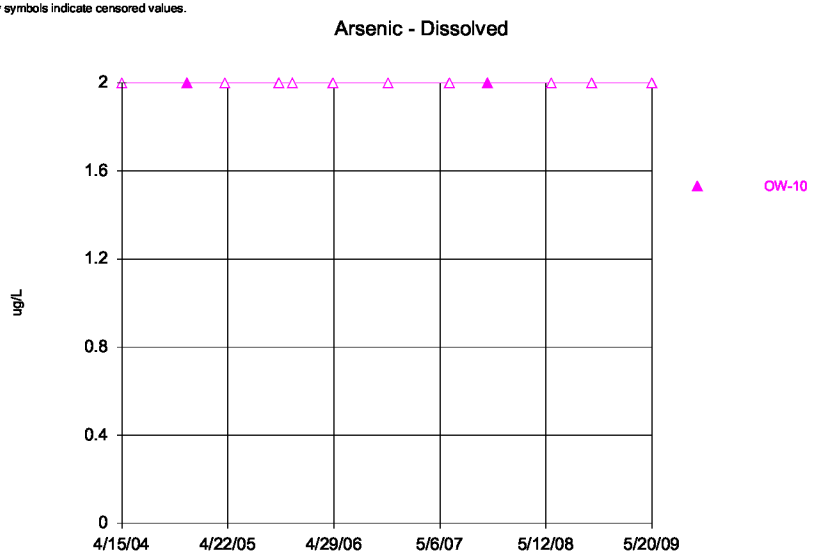

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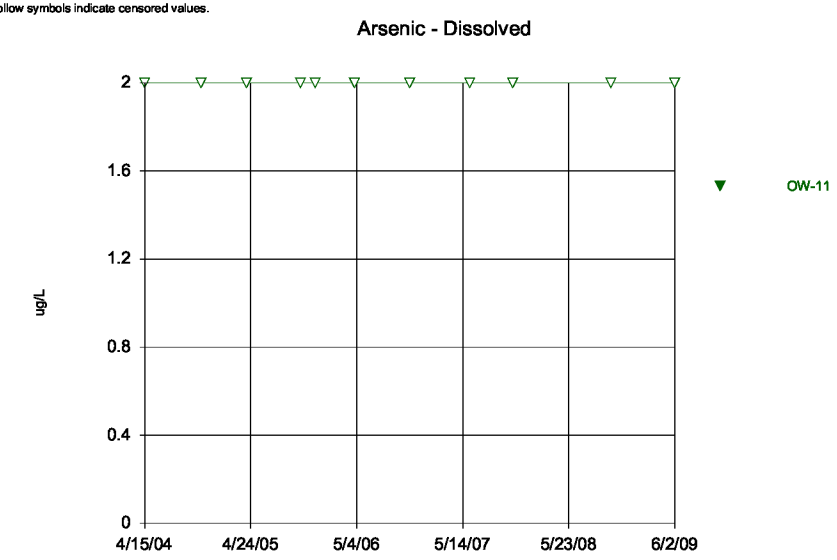

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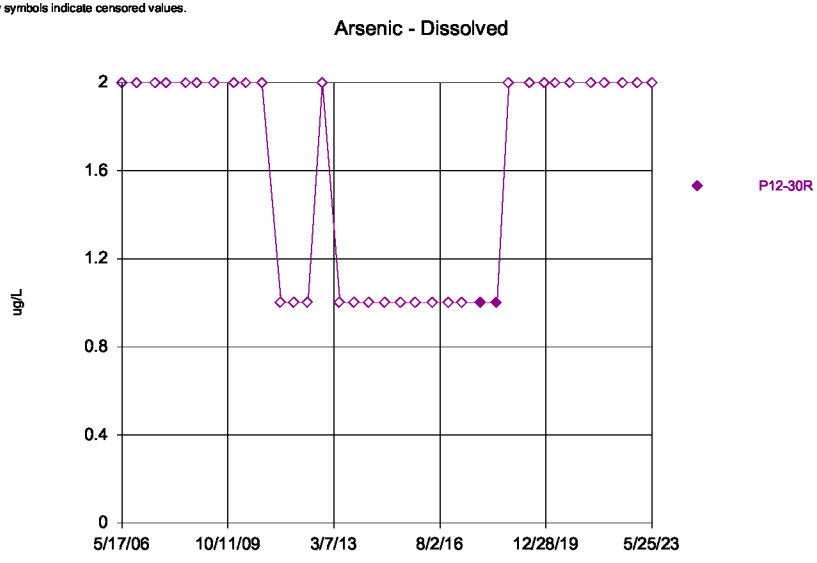

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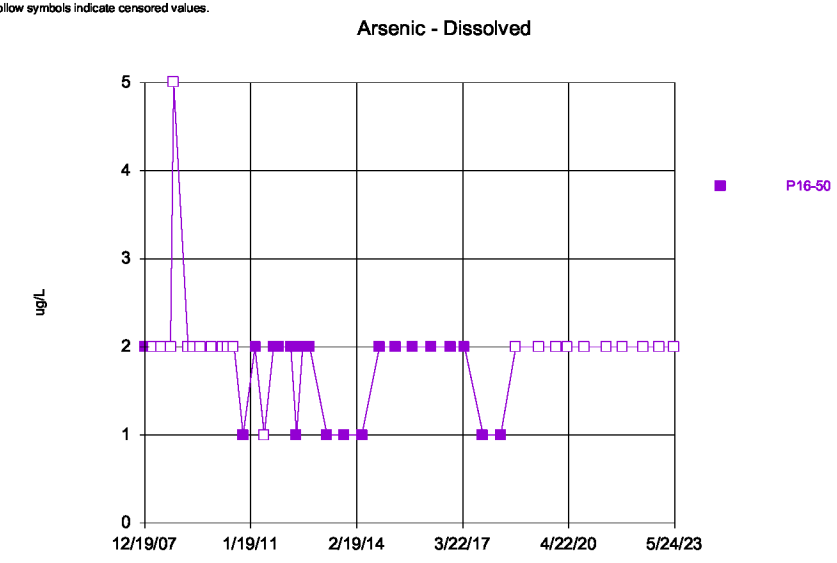

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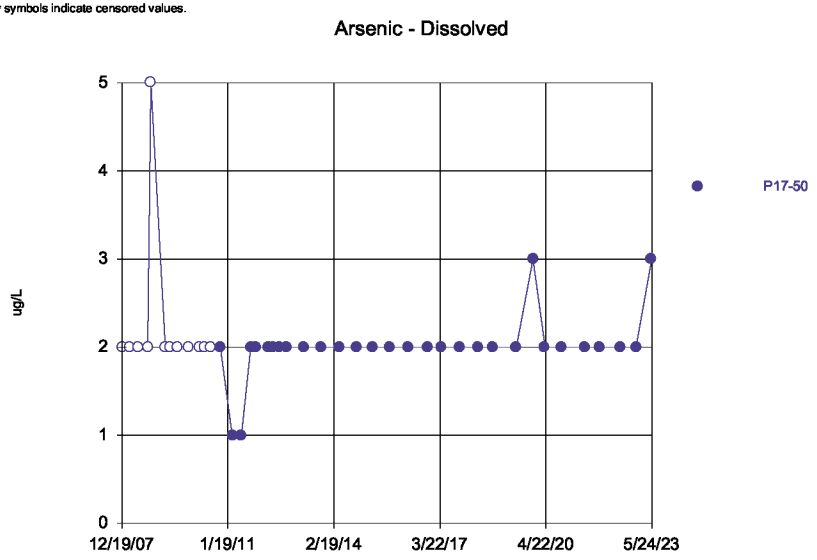

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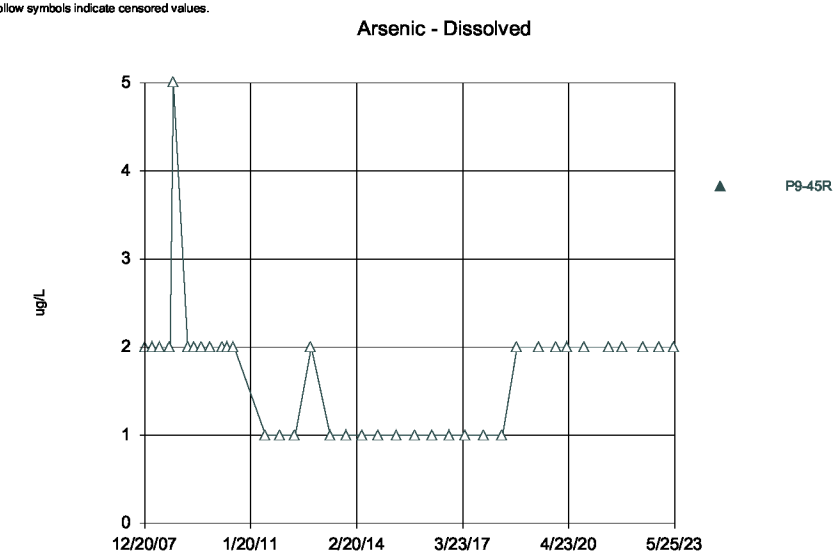

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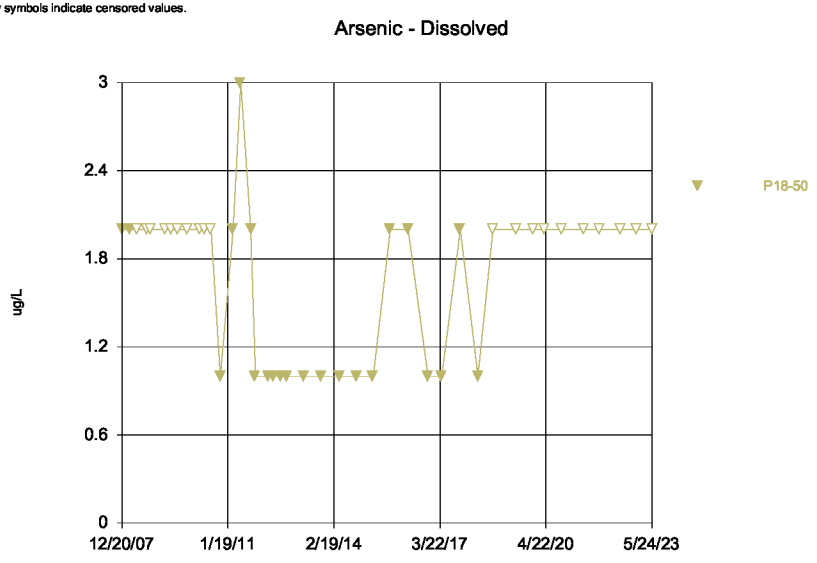
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Time Series Analysis Run 9/12/2023 2:51 PM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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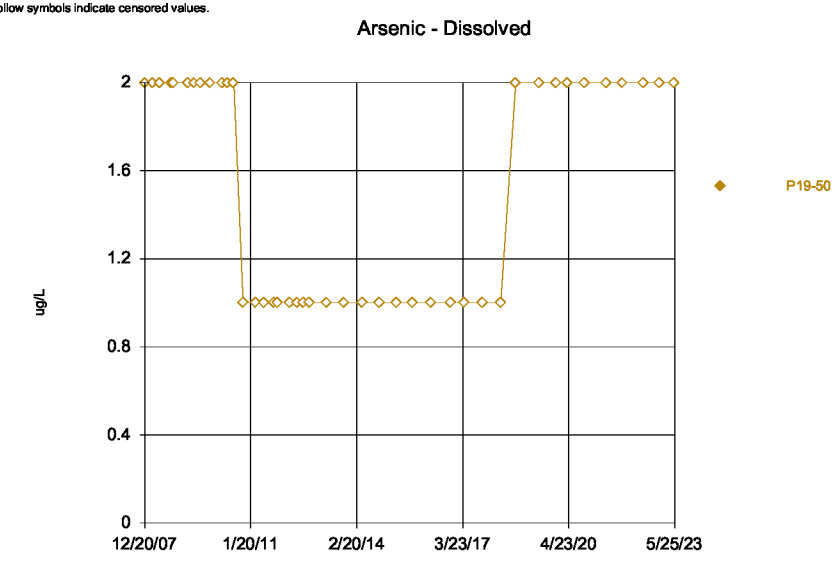

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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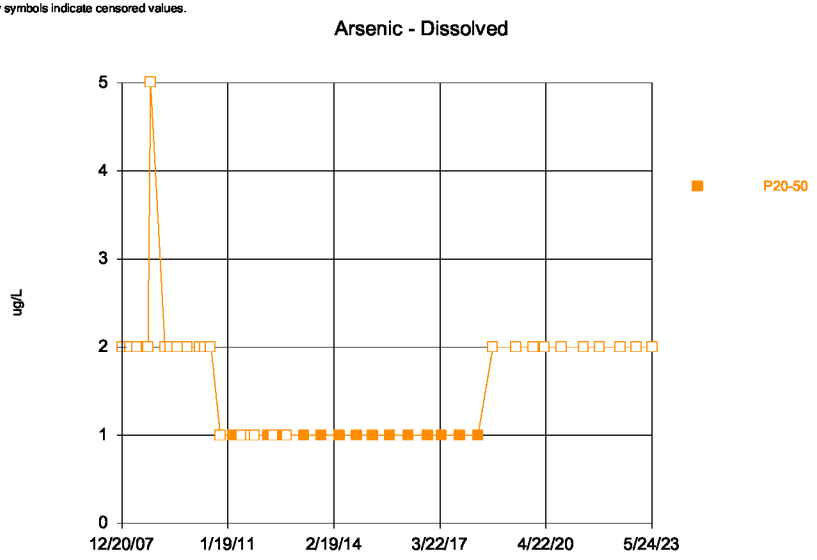

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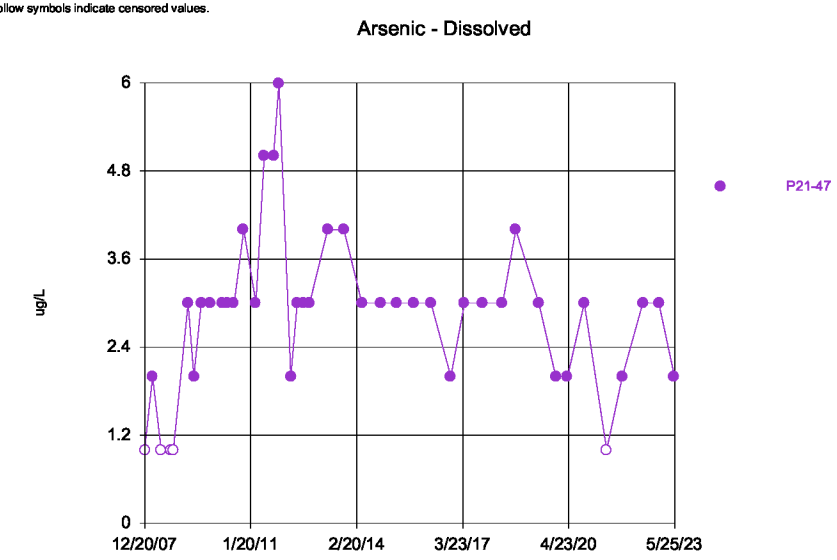

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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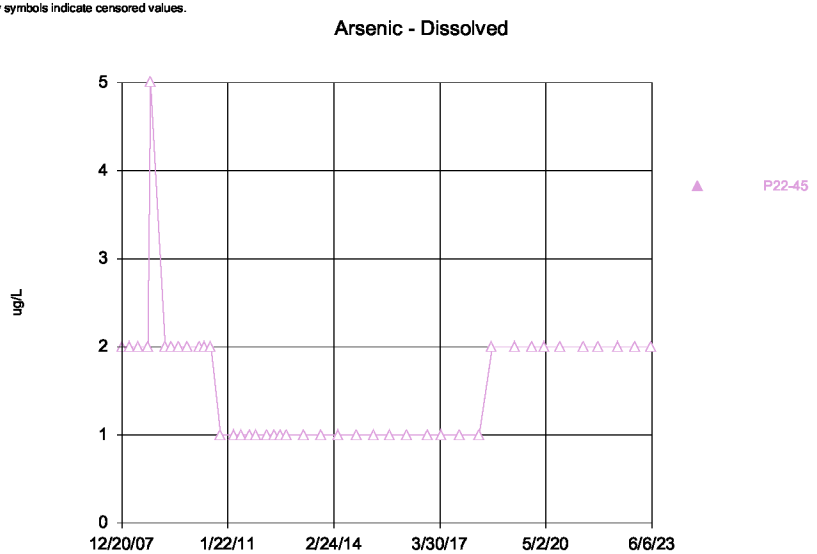

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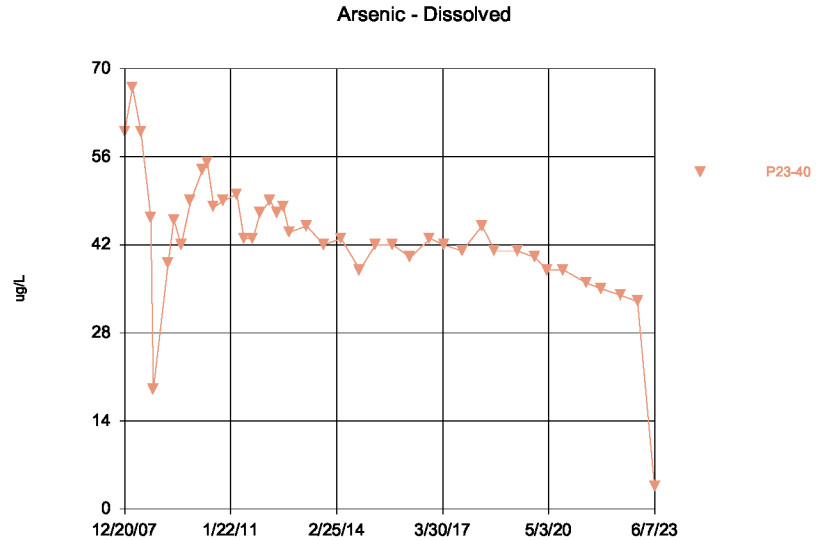

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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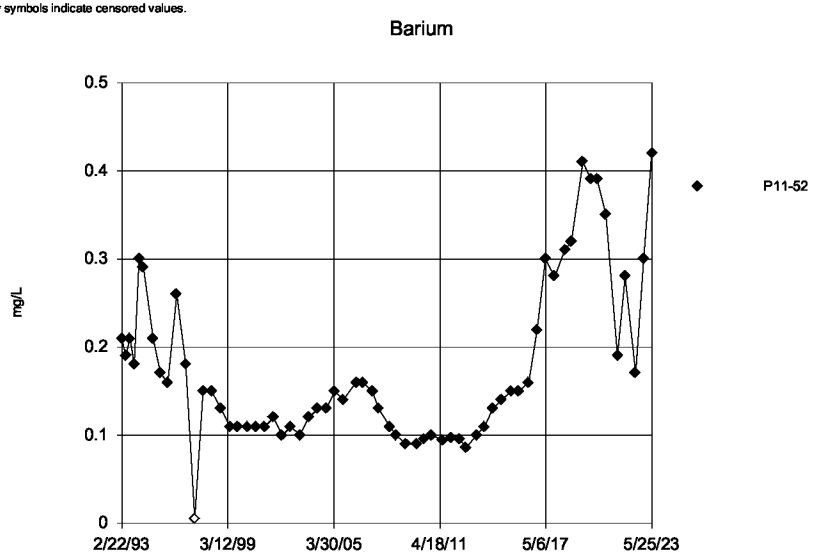

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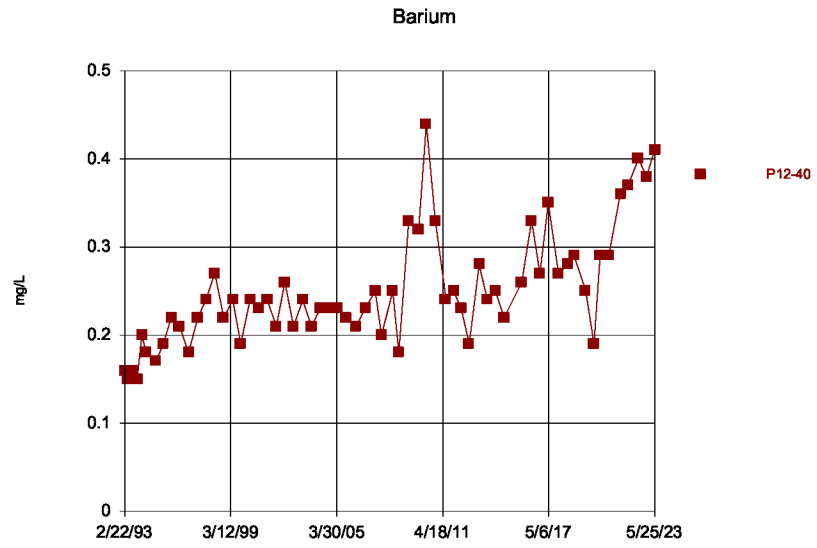

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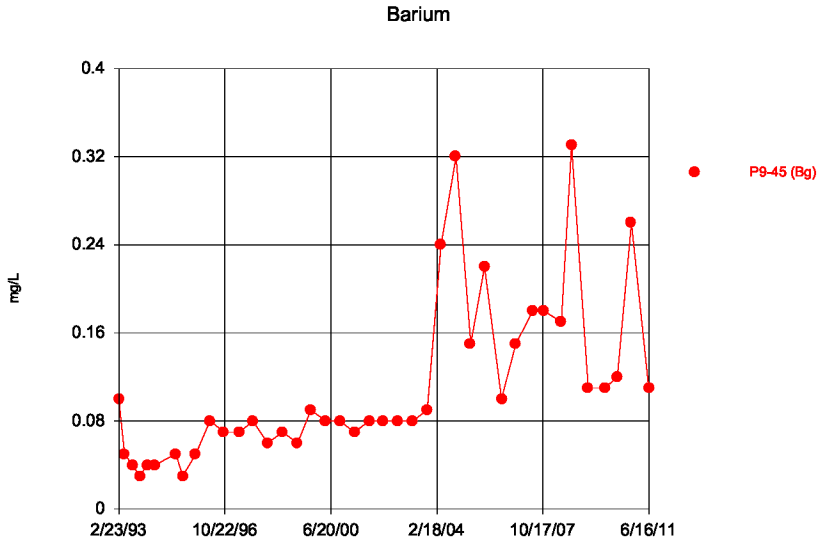

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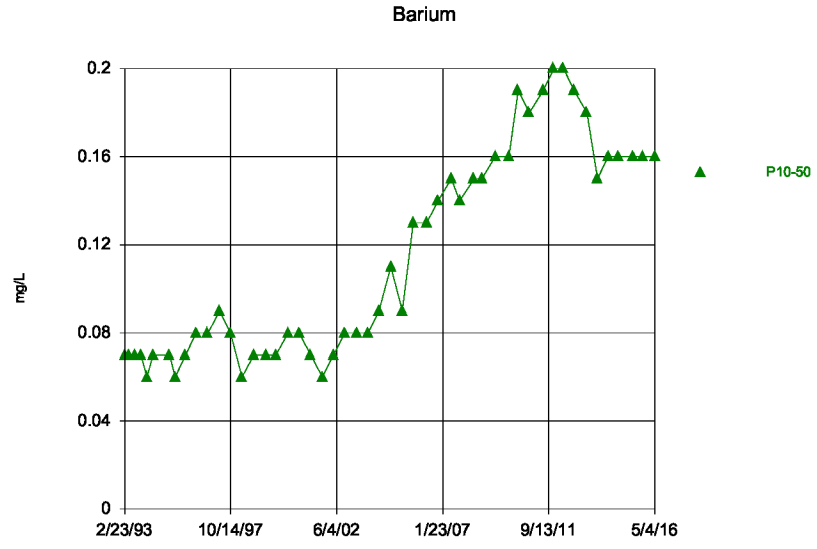

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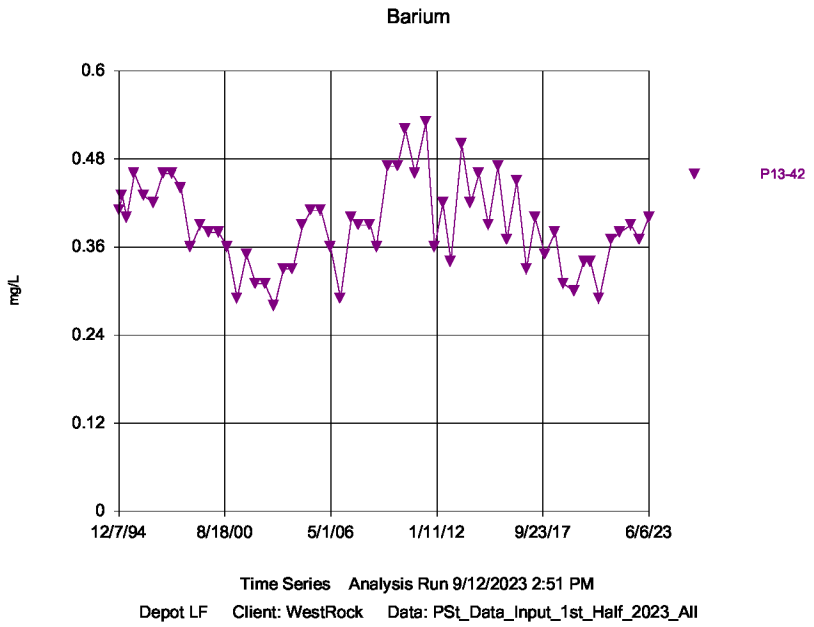

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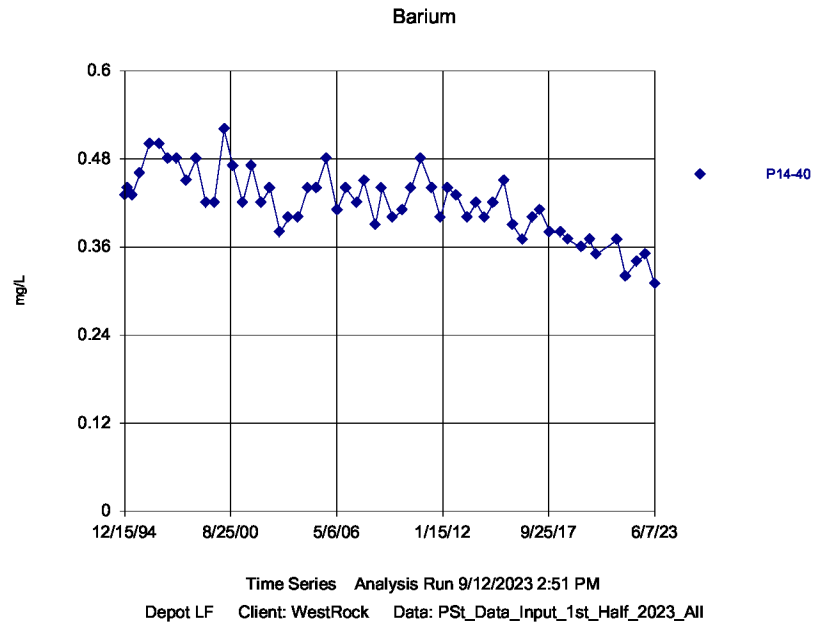

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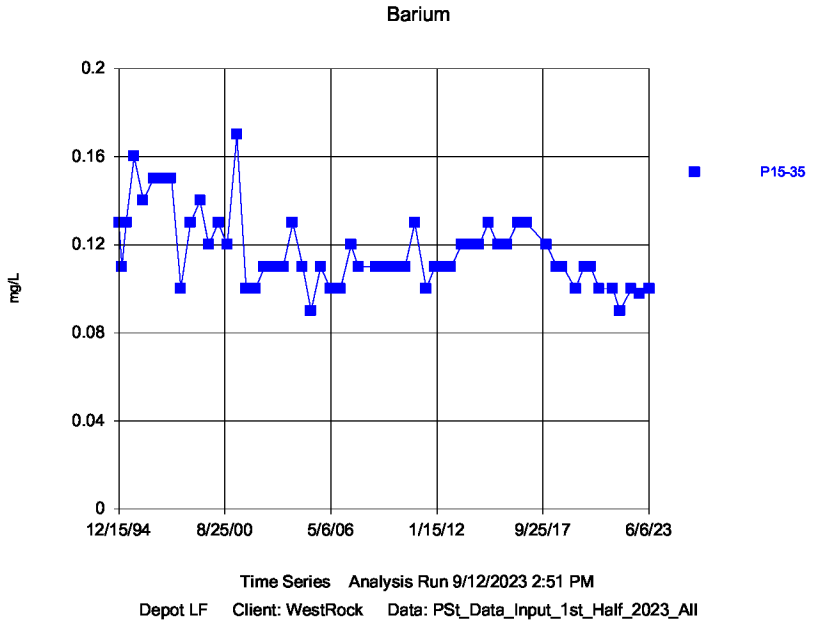

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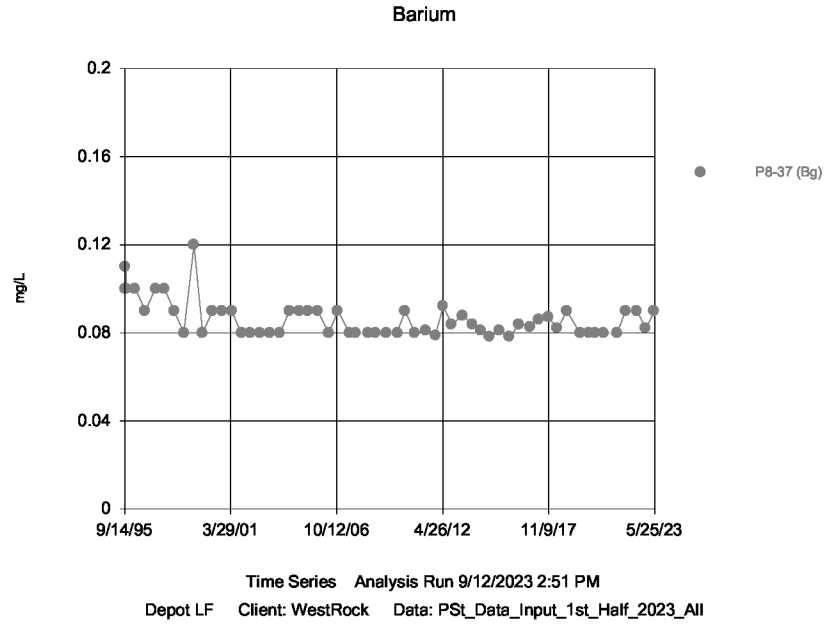

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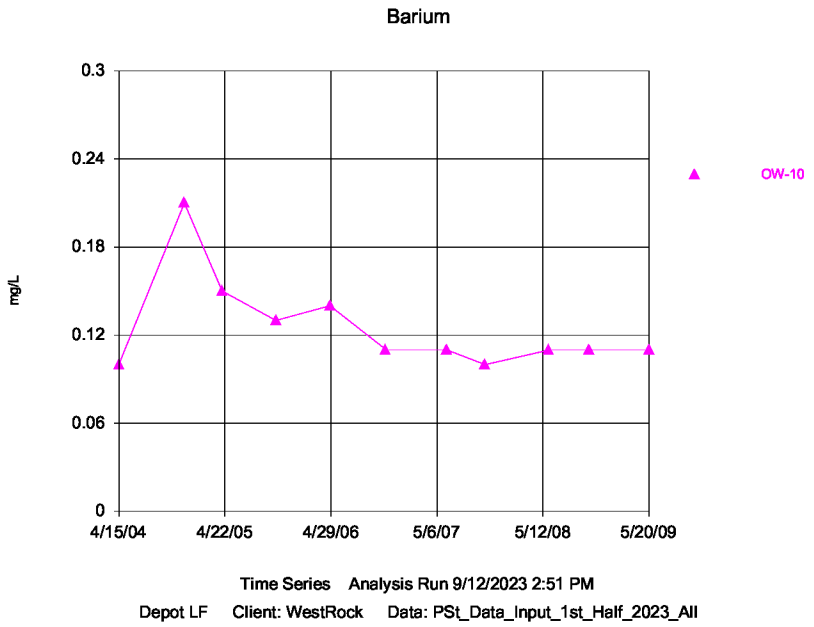

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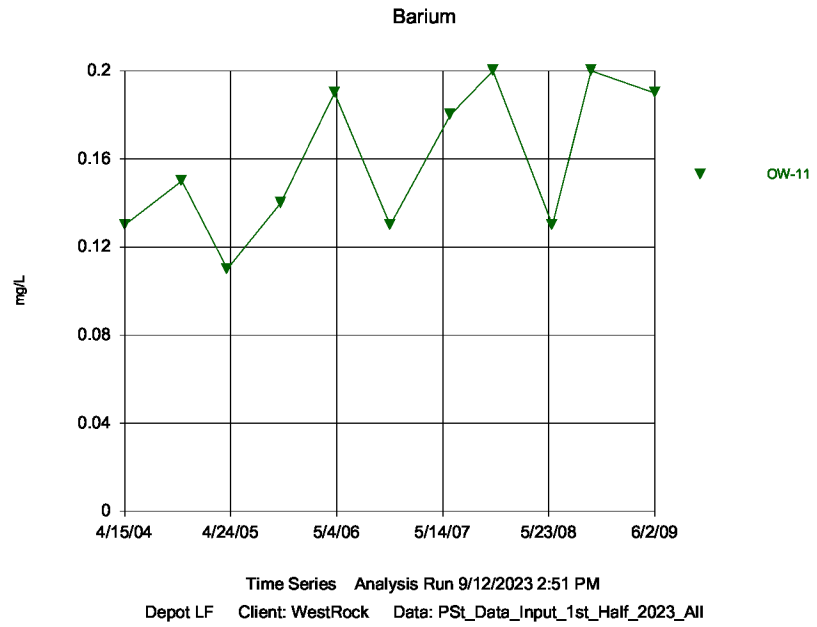

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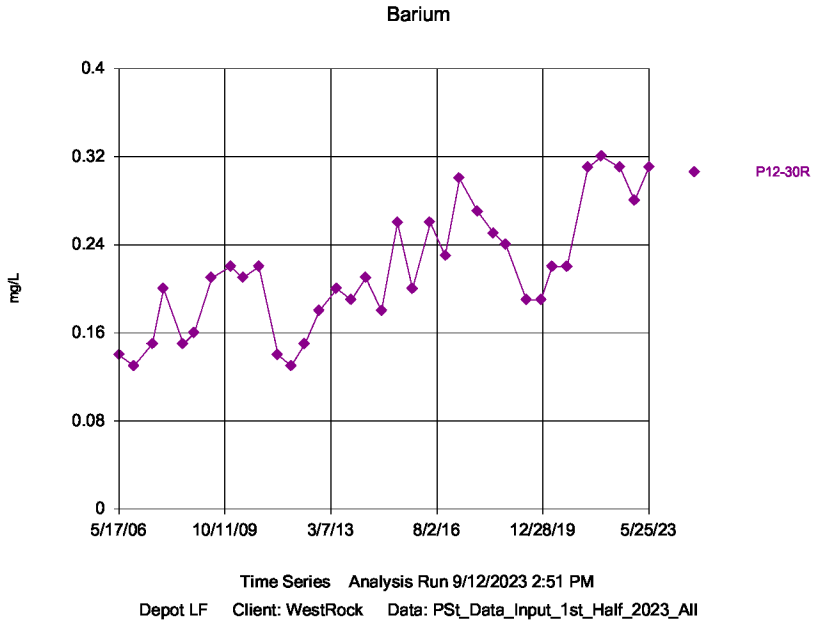

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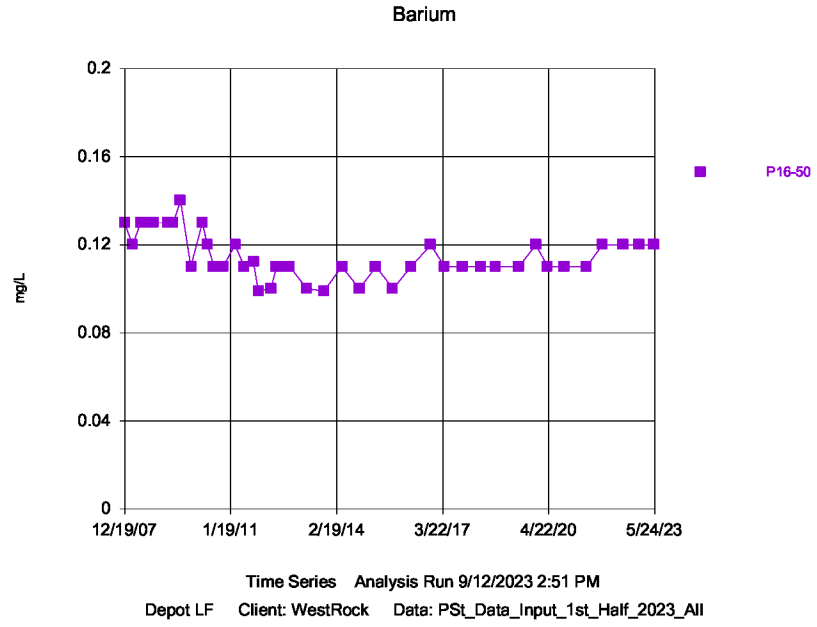

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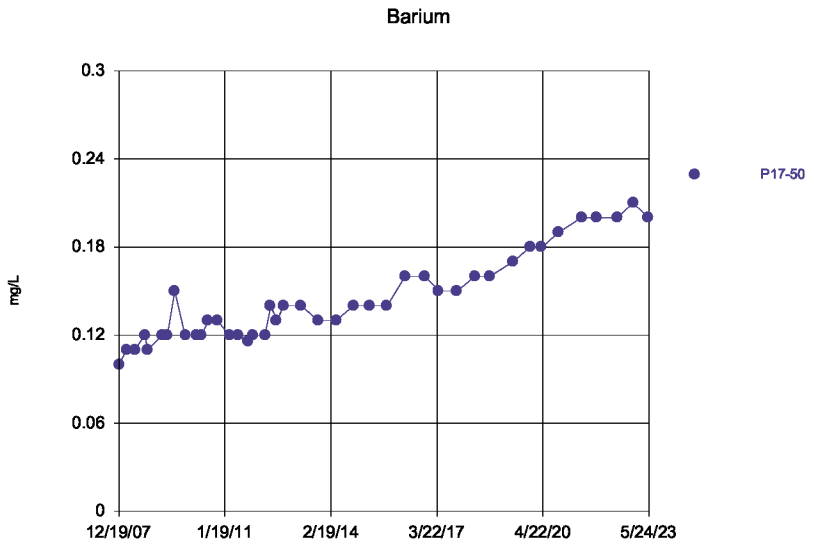

Time Series Analysis Run 9/12/2023 2:51 PM
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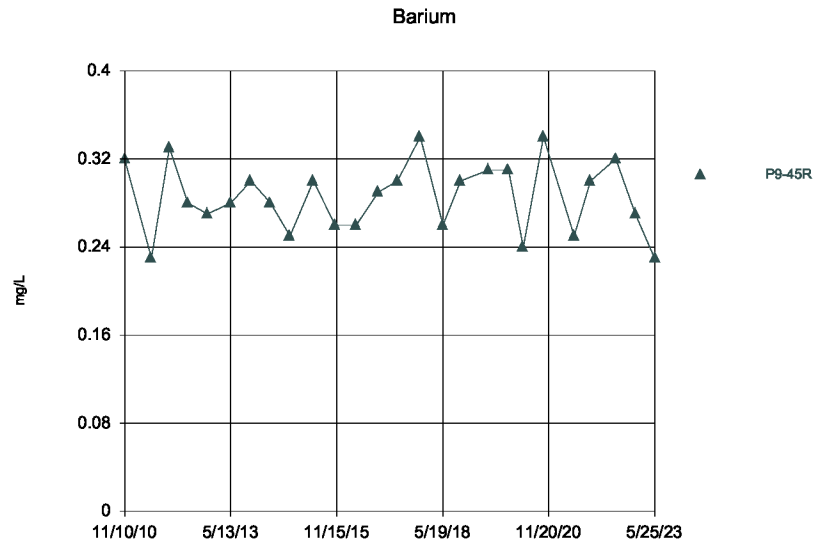

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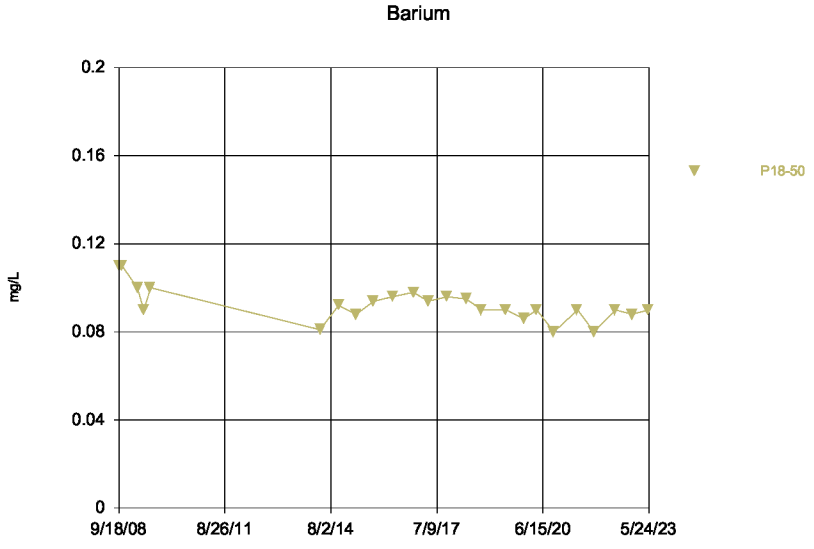

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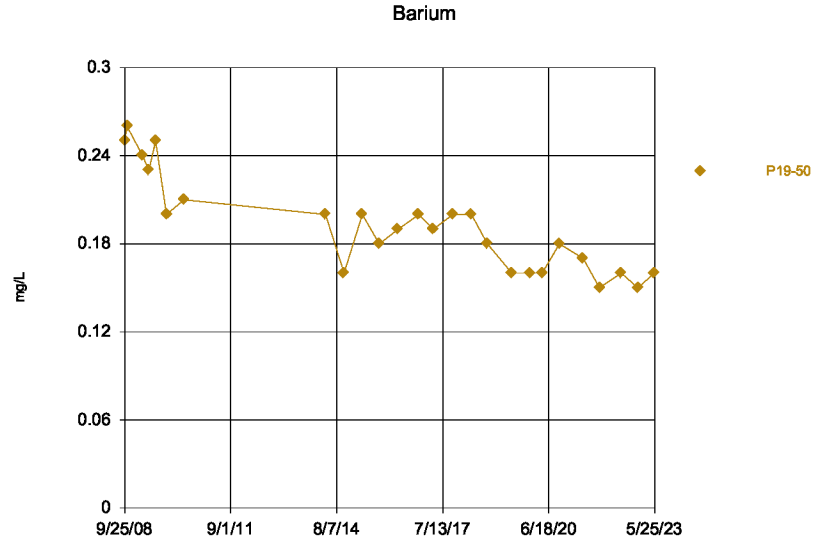

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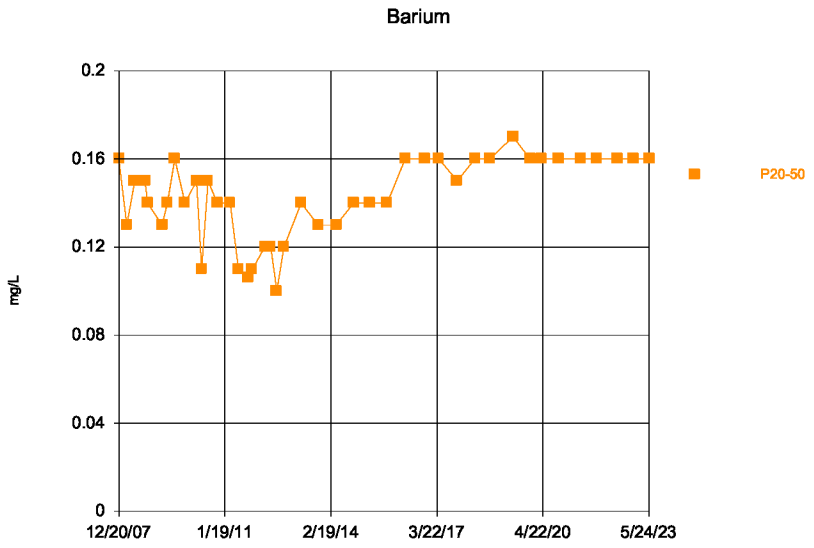

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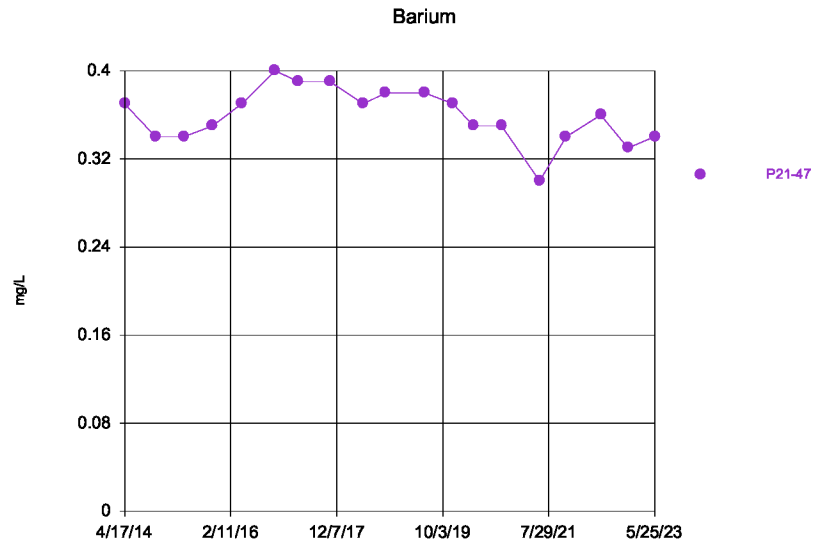

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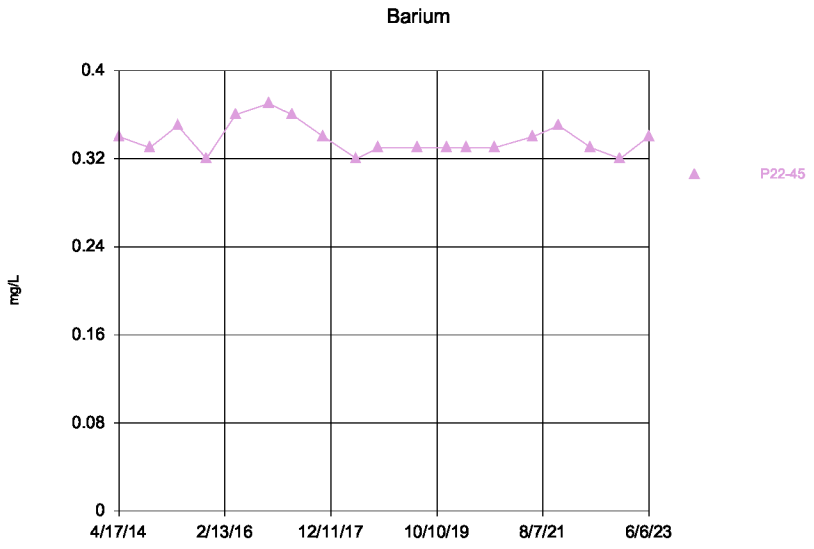

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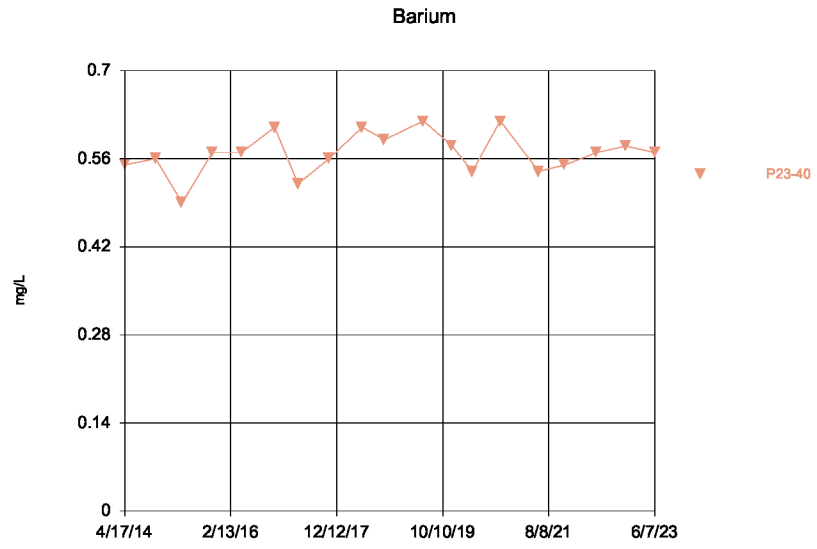

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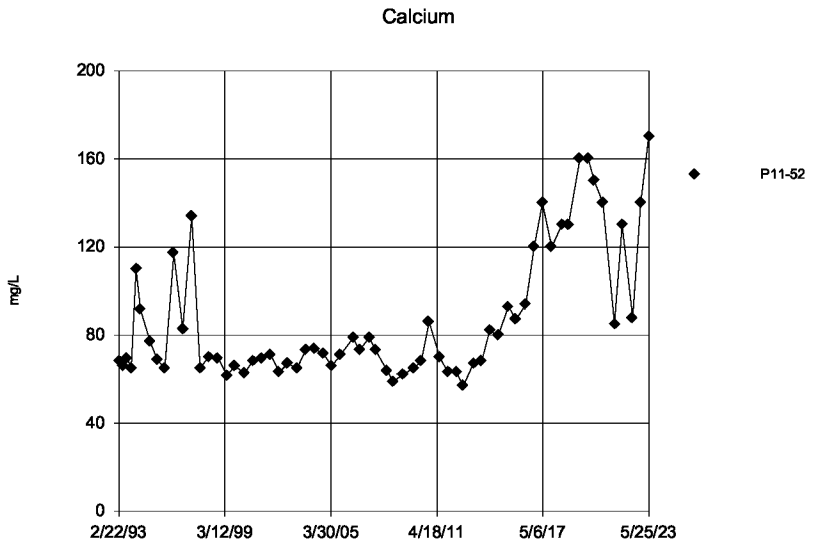

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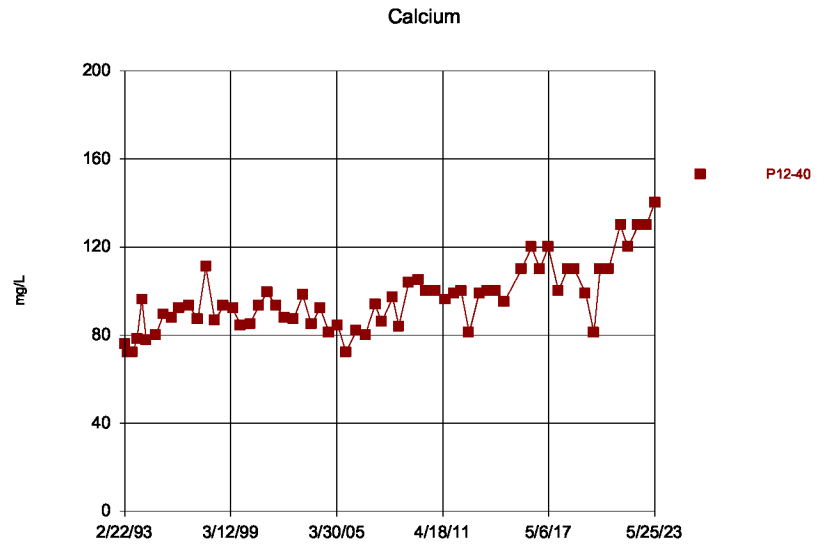

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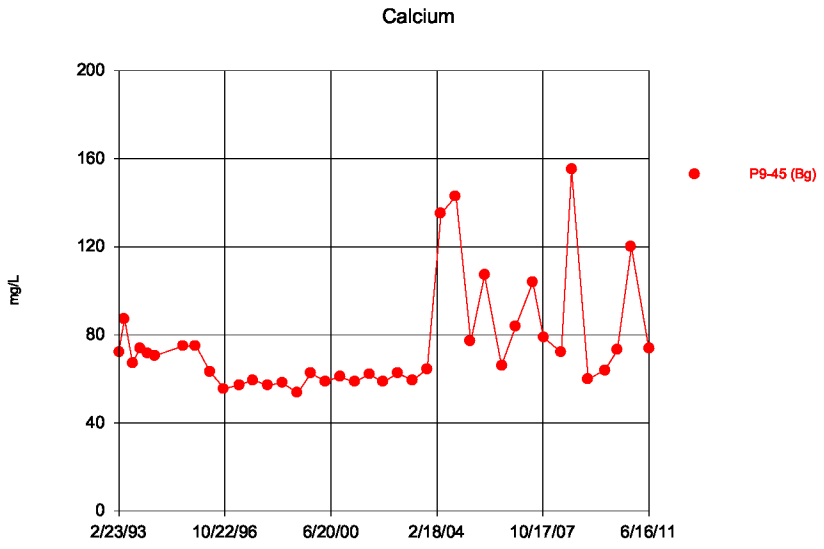

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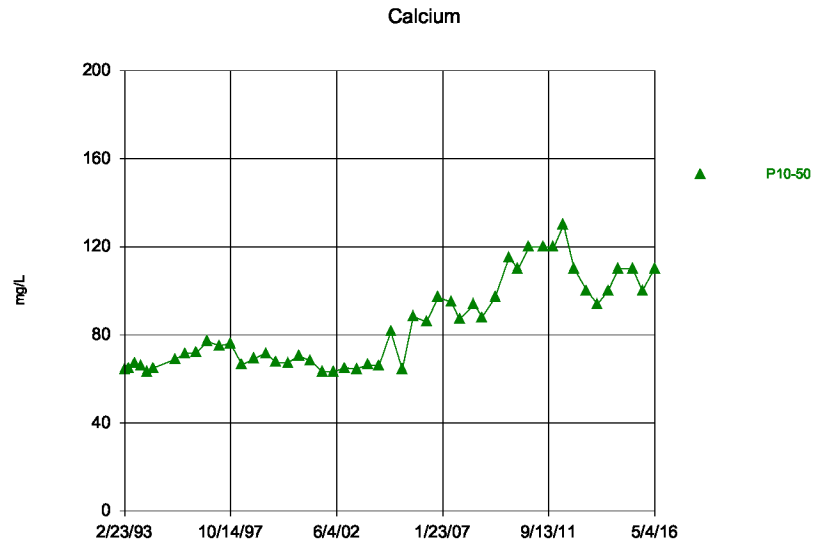

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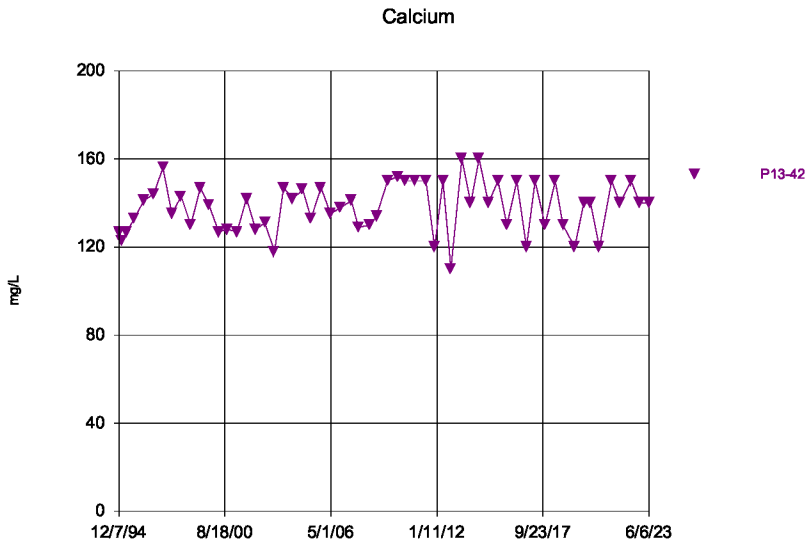

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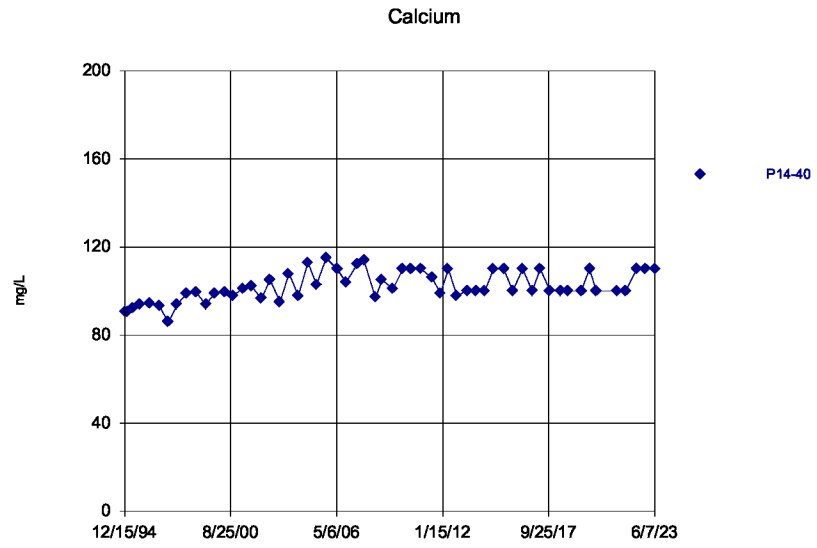

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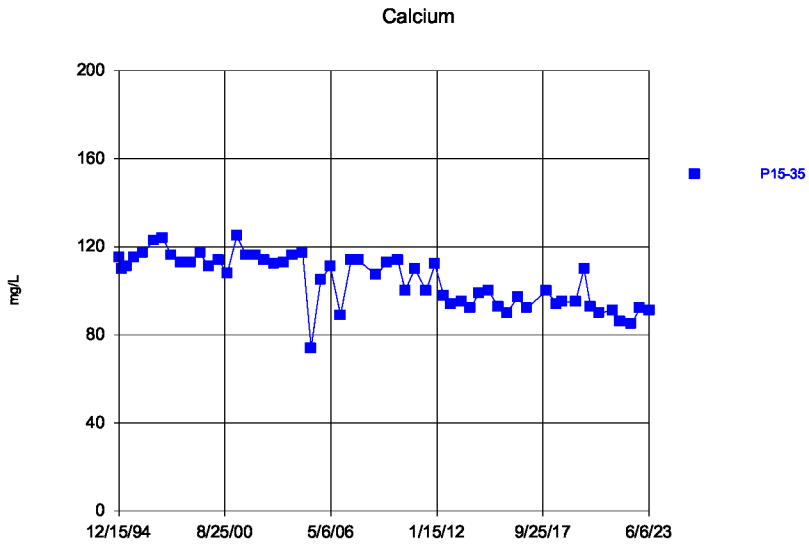

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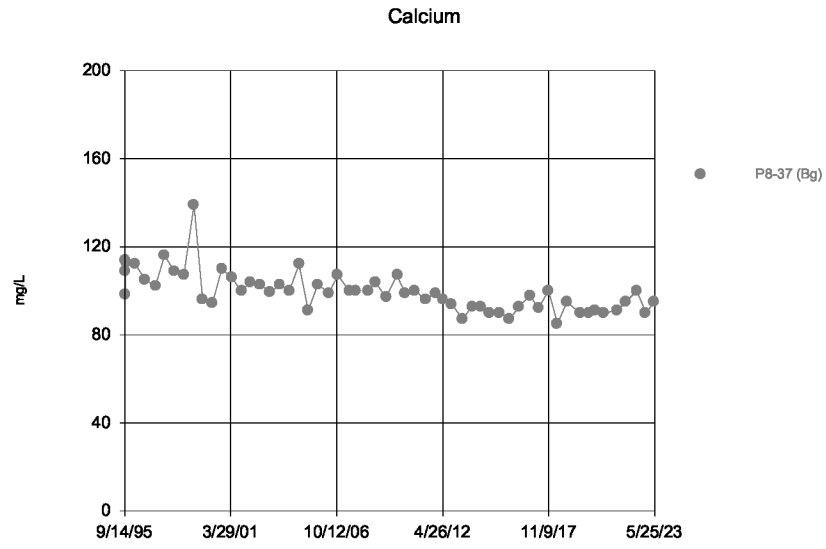

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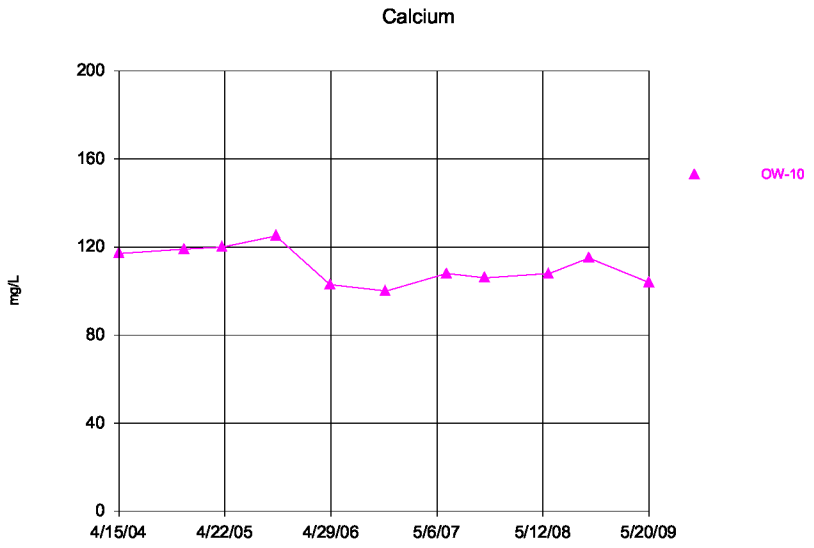

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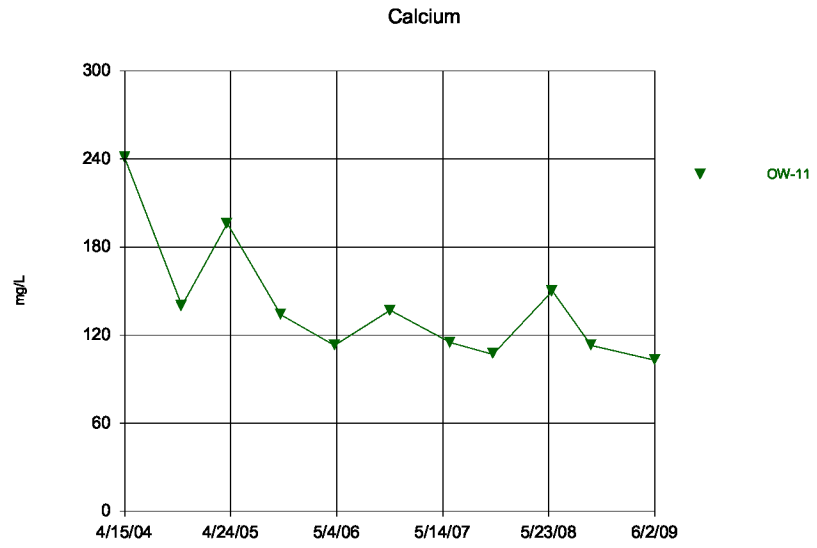

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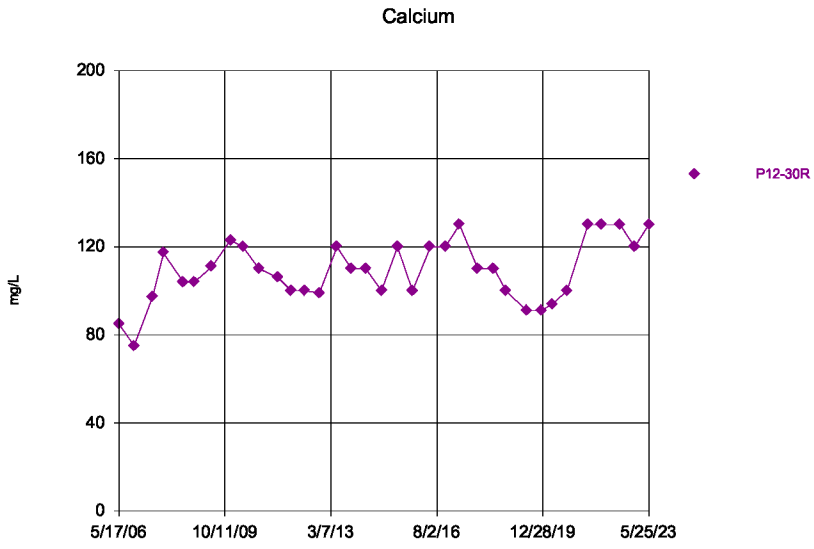

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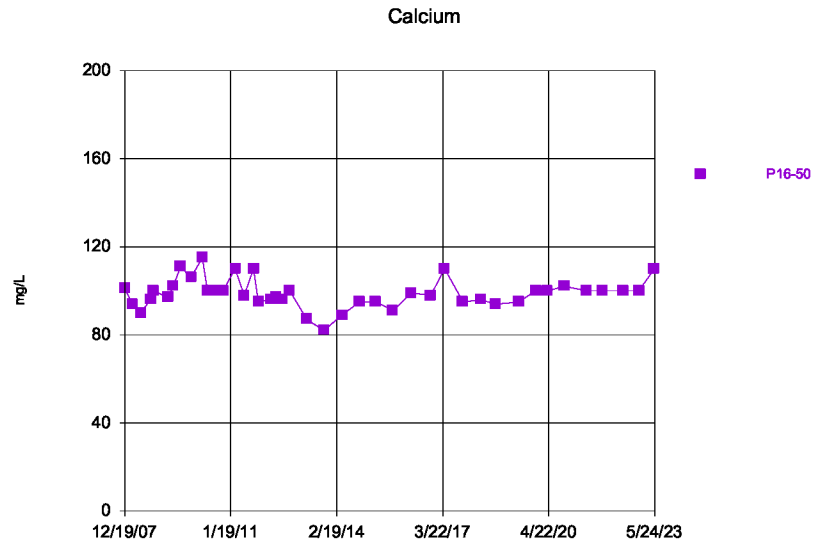

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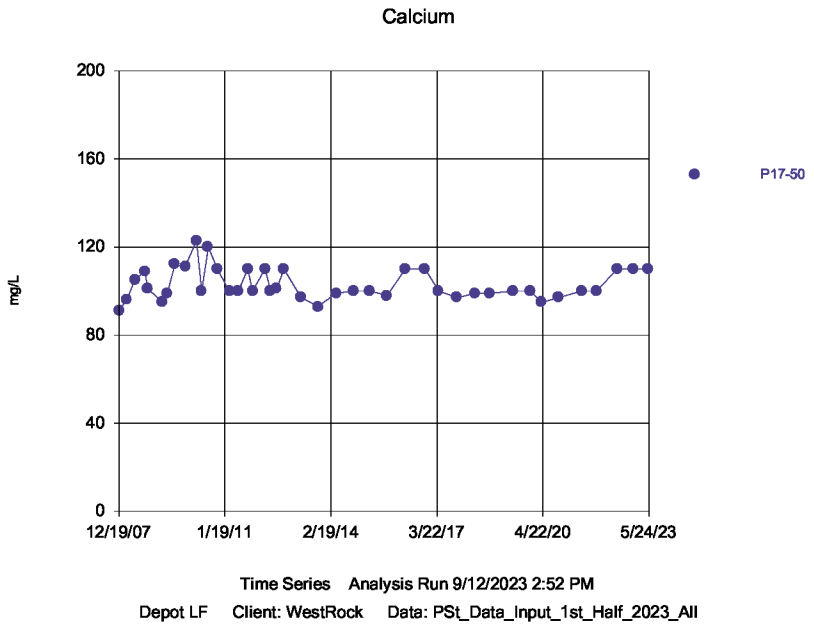

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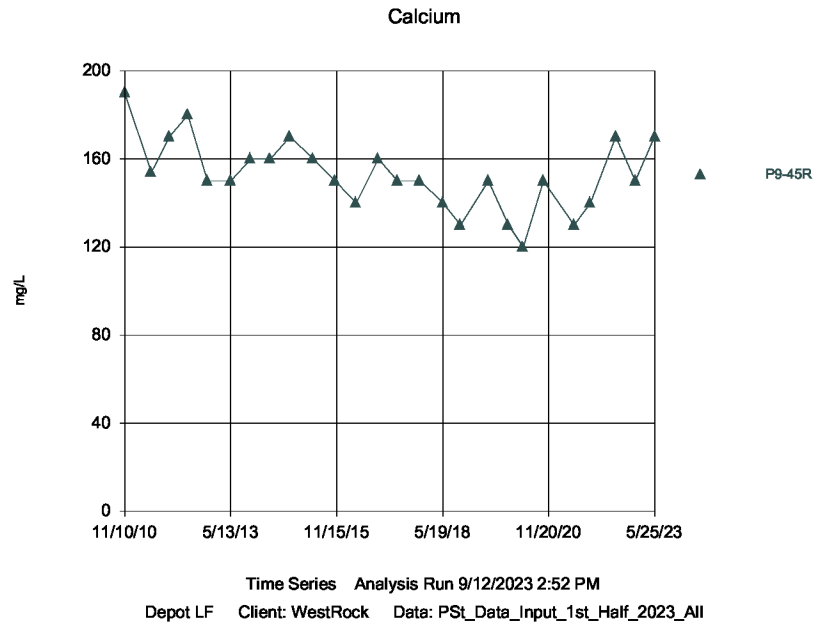

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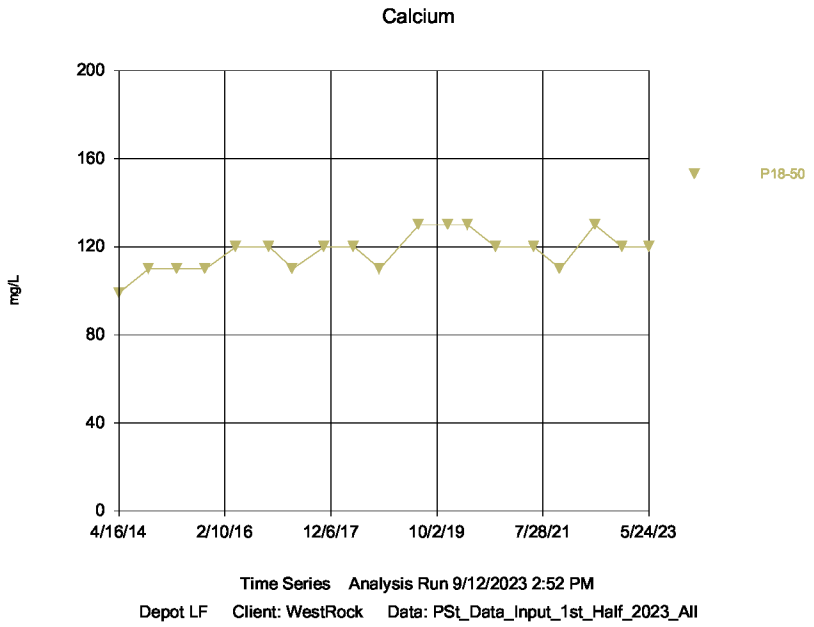

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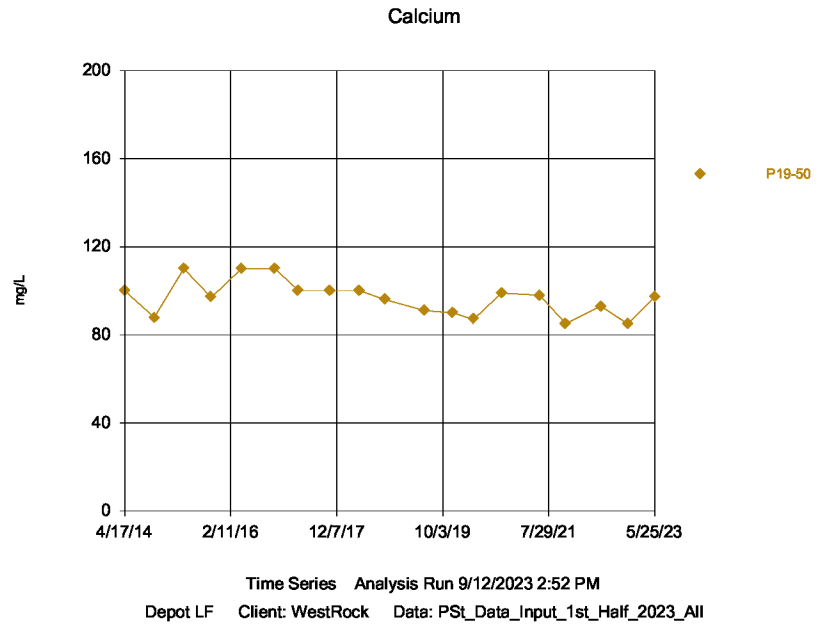

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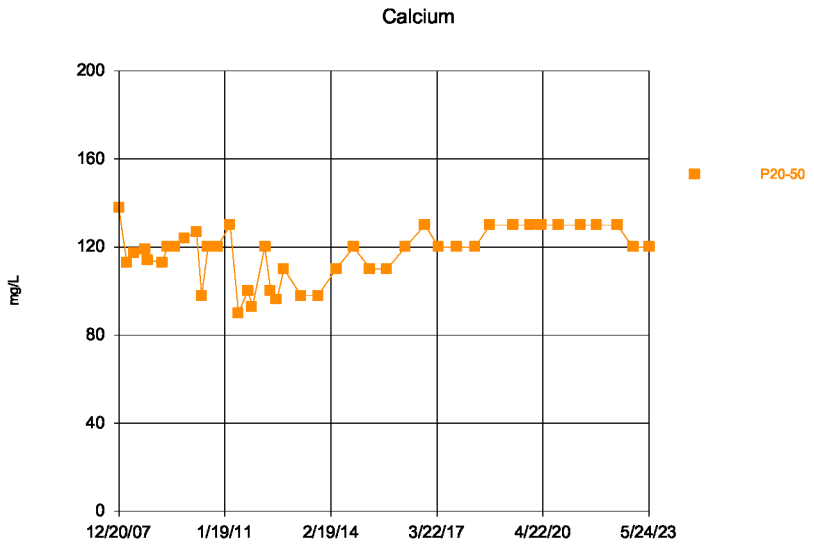

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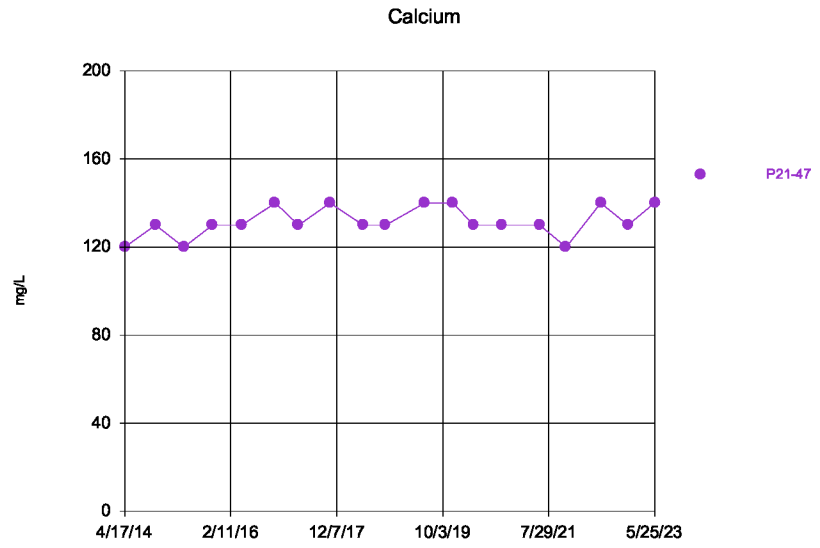

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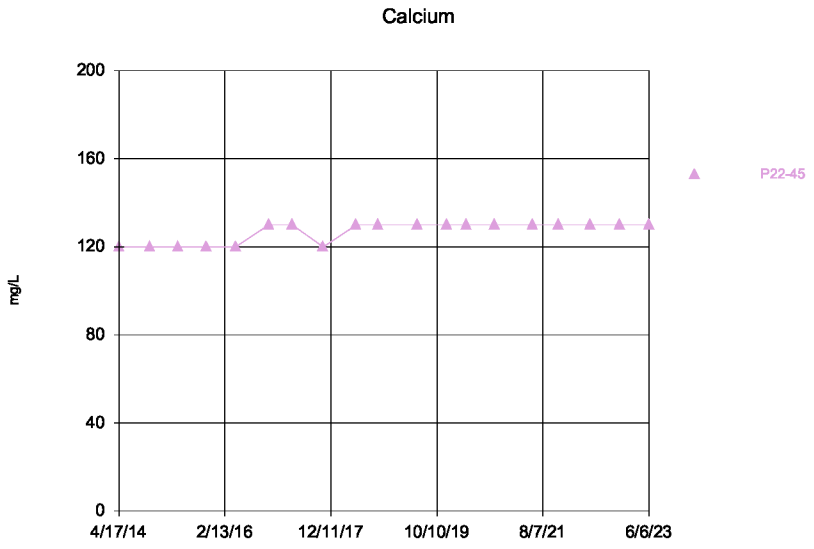

Time Series Analysis Run 9/12/2023 2:52 PM

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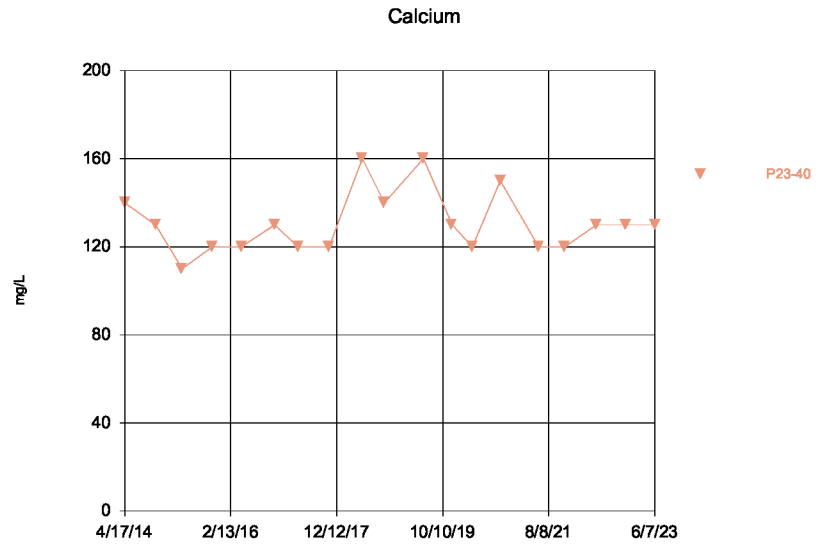
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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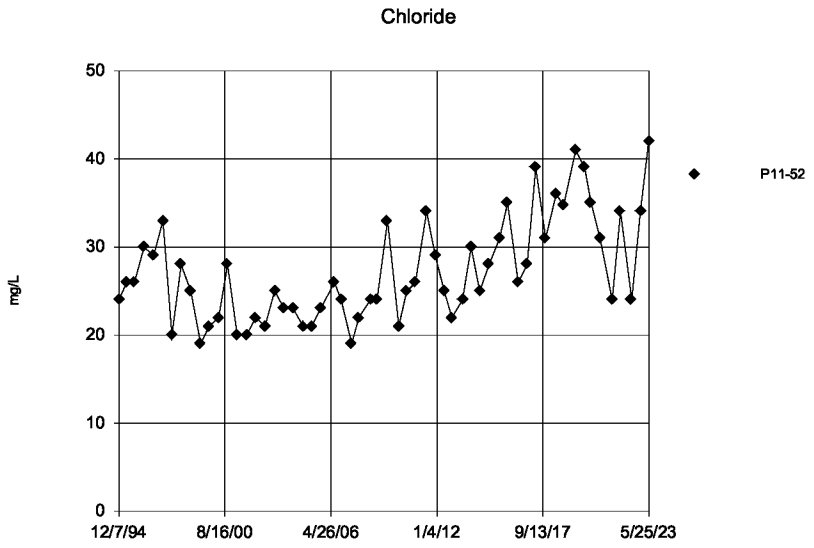
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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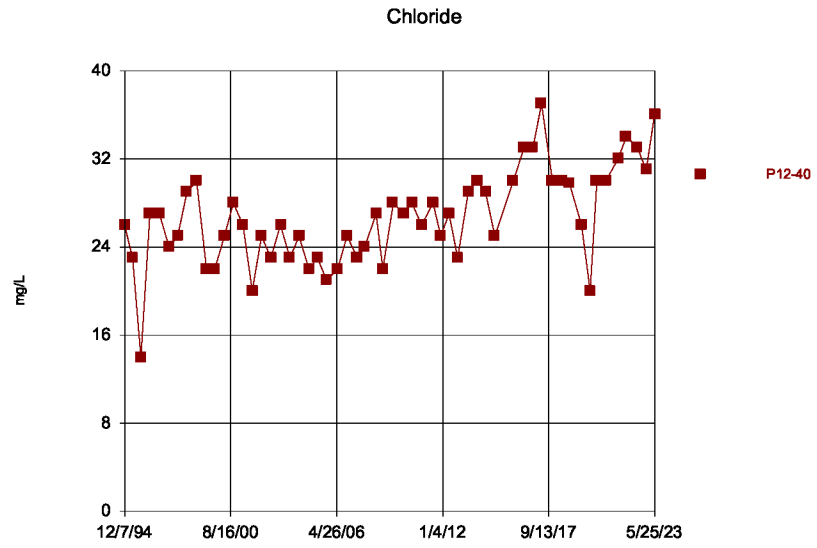

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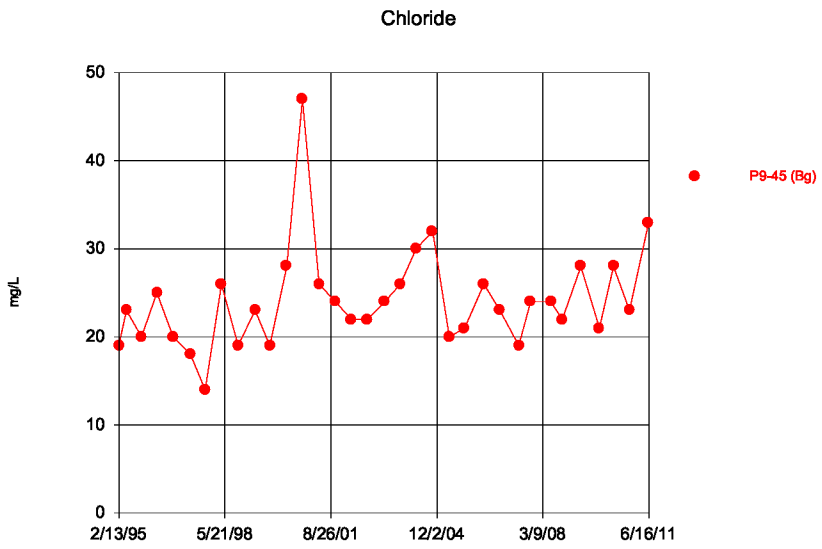

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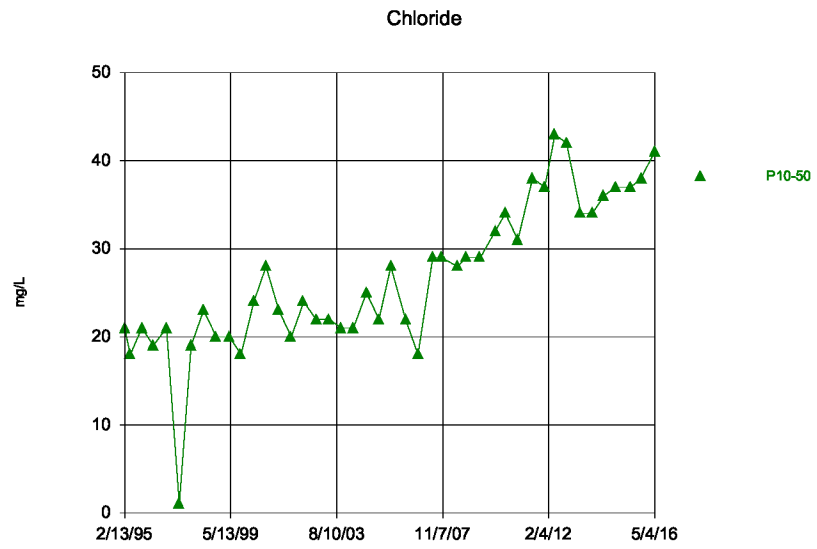

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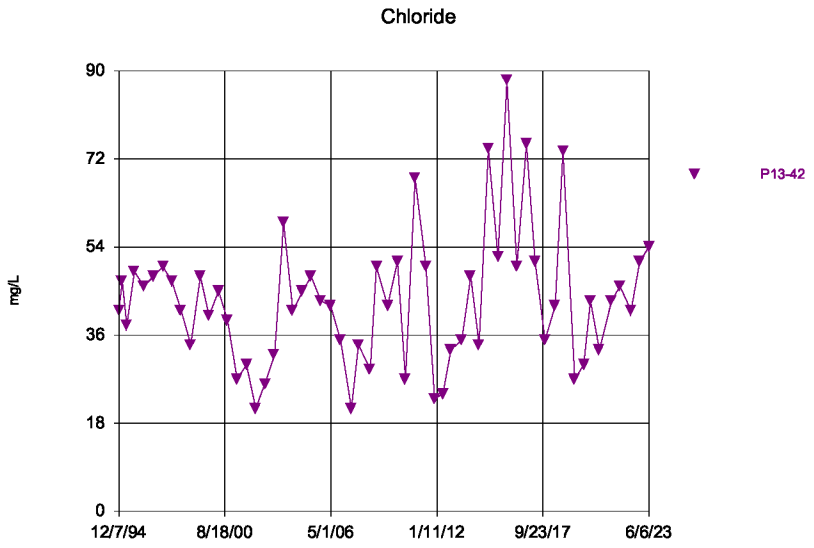

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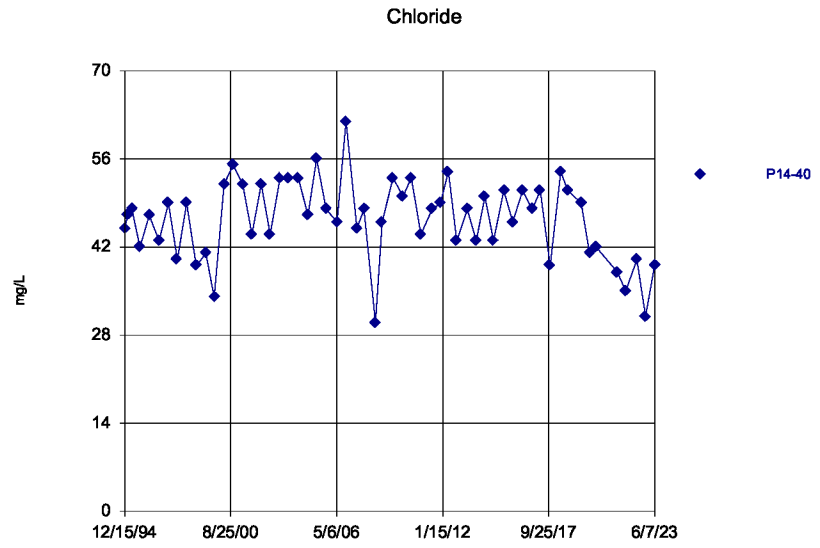

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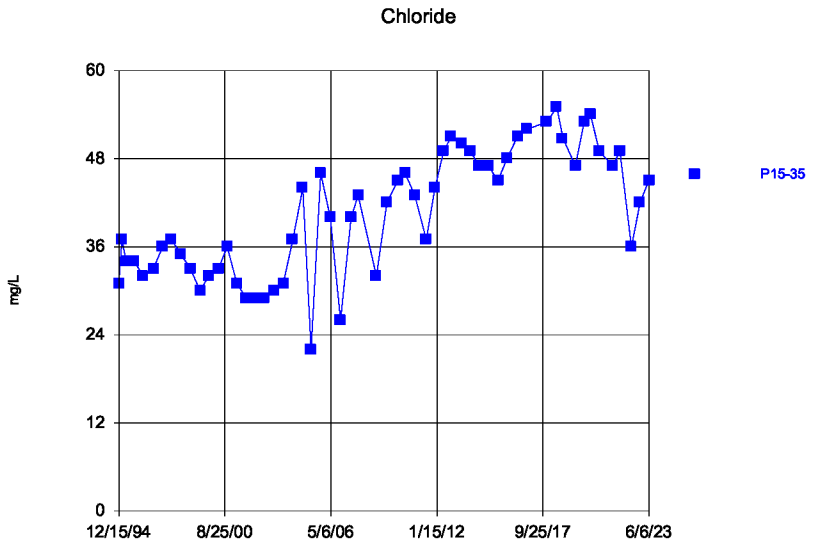

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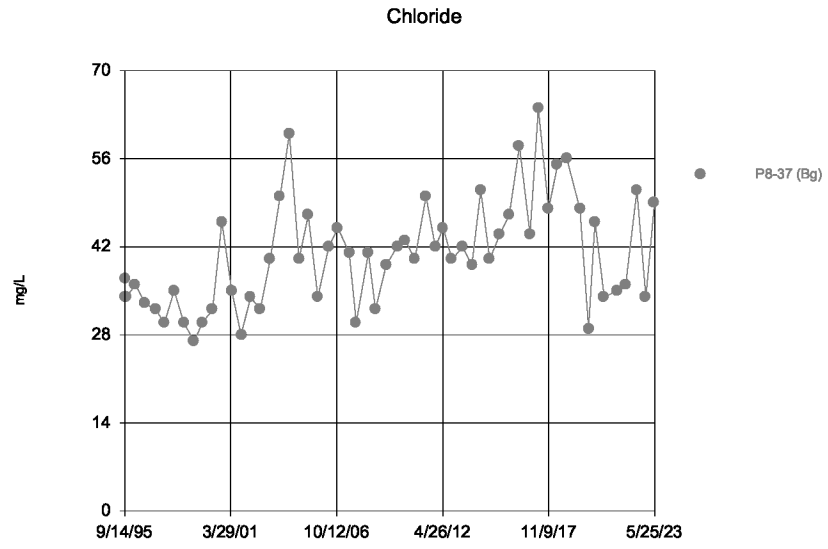

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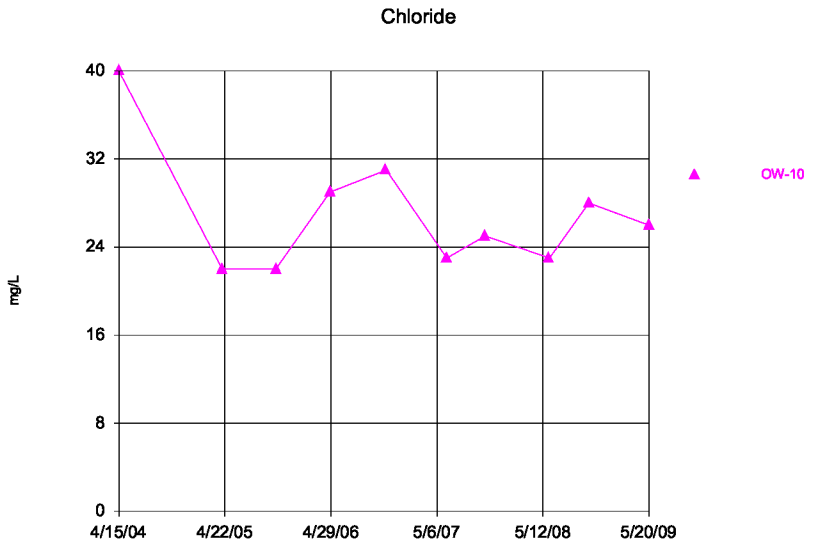

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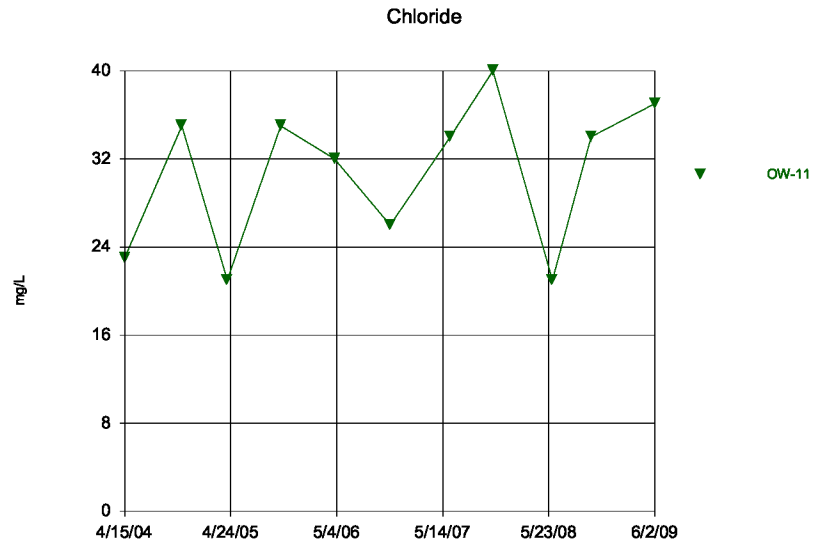

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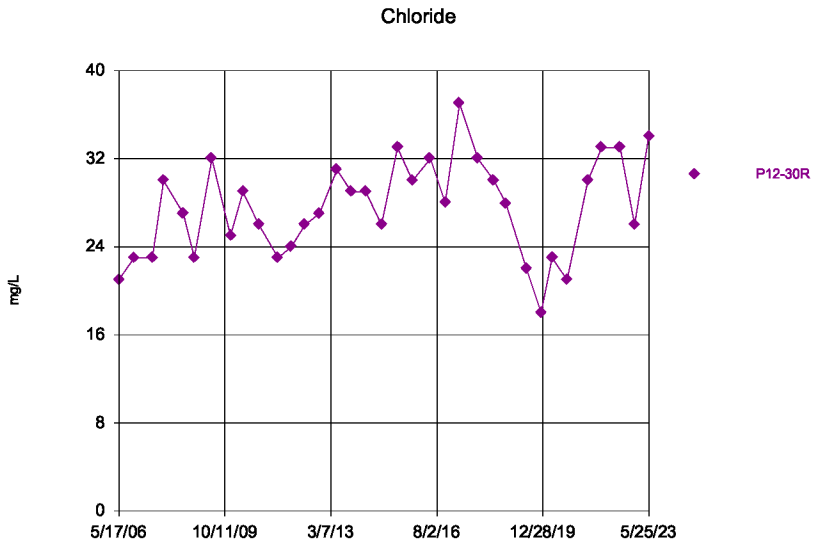

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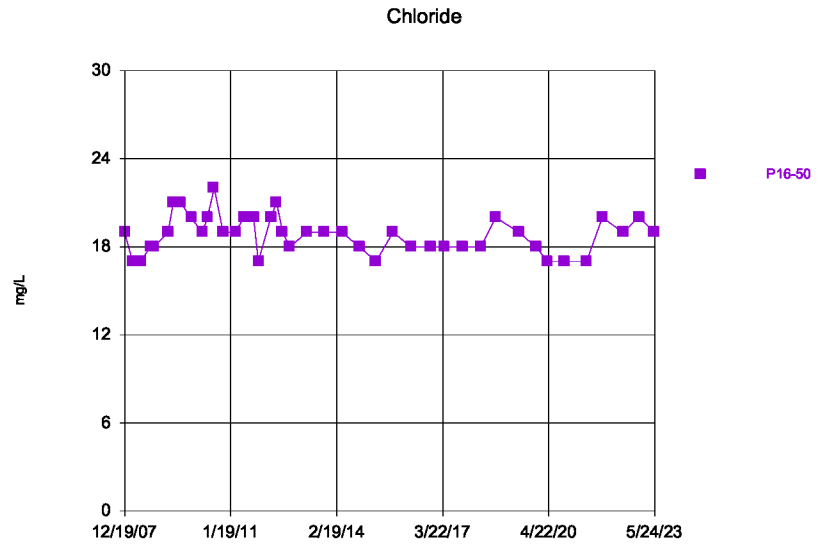

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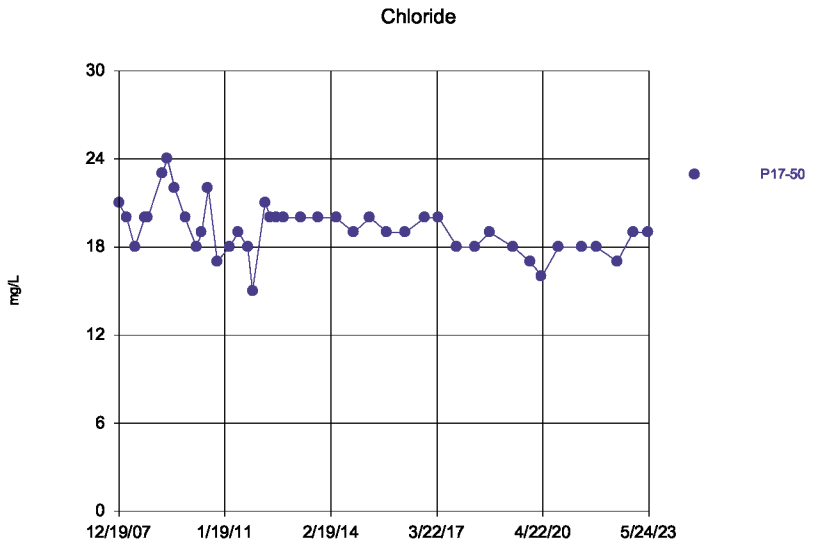

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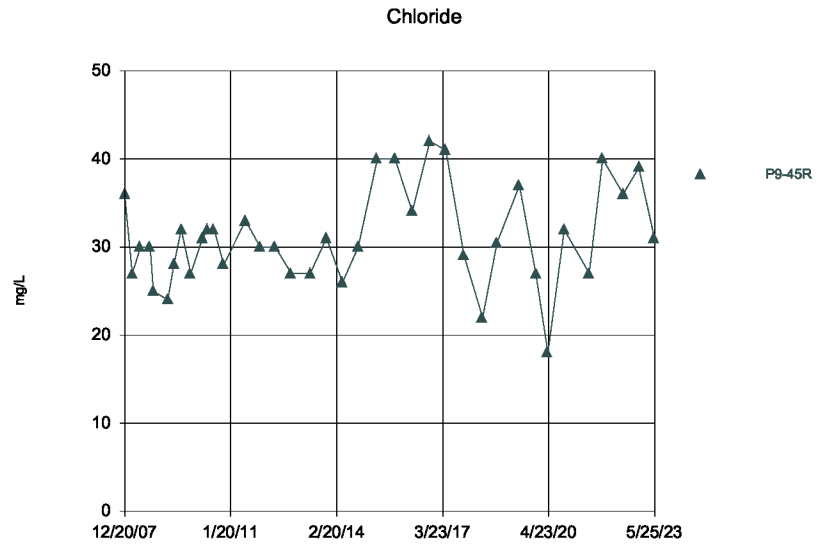

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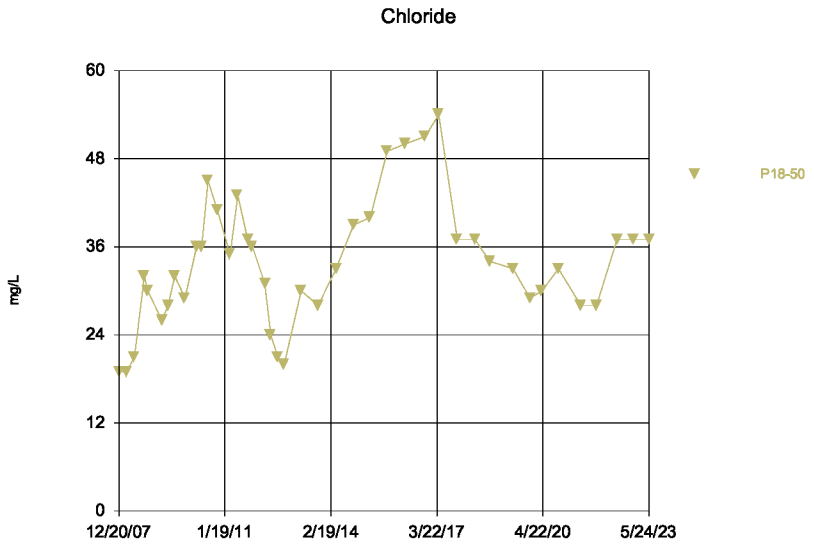

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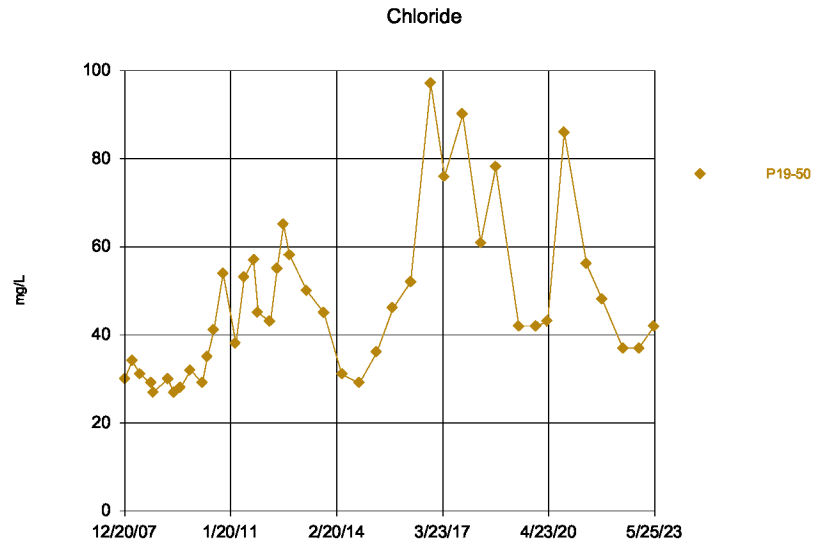

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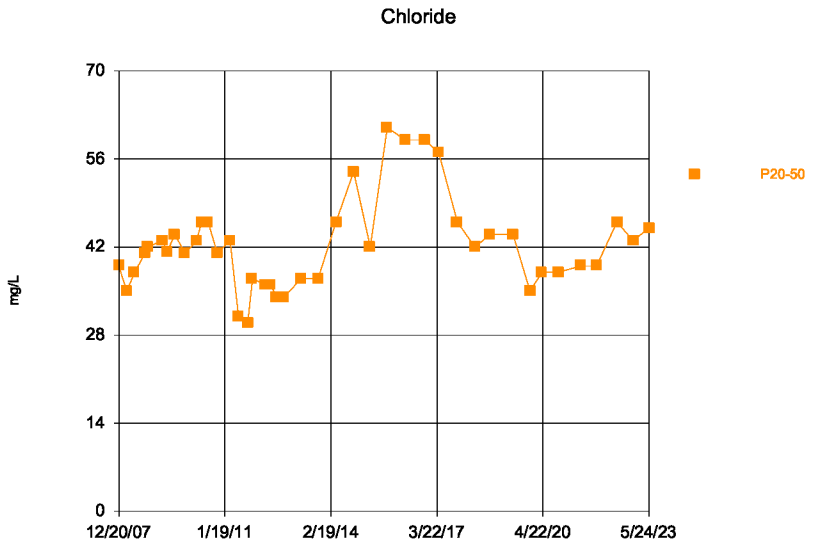

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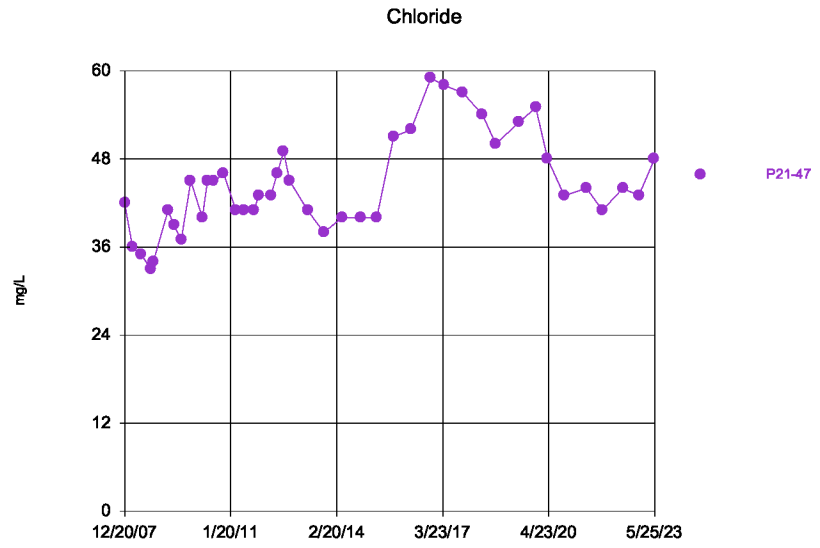

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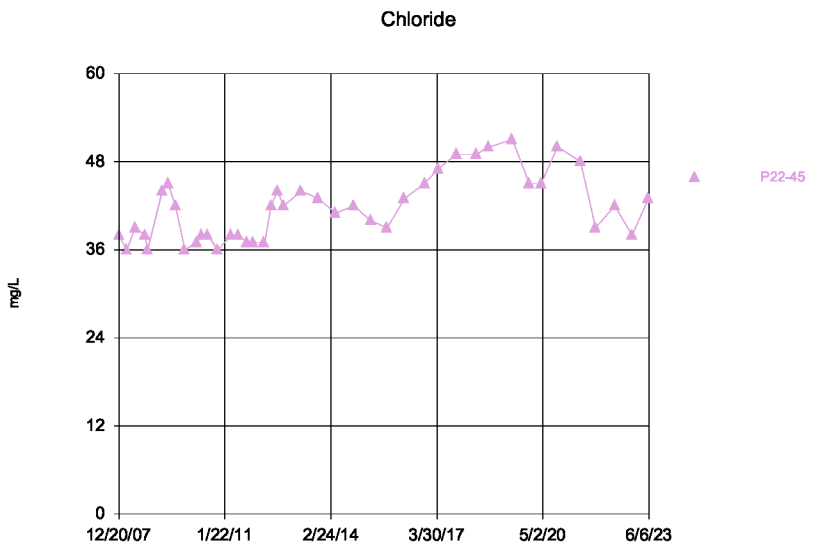

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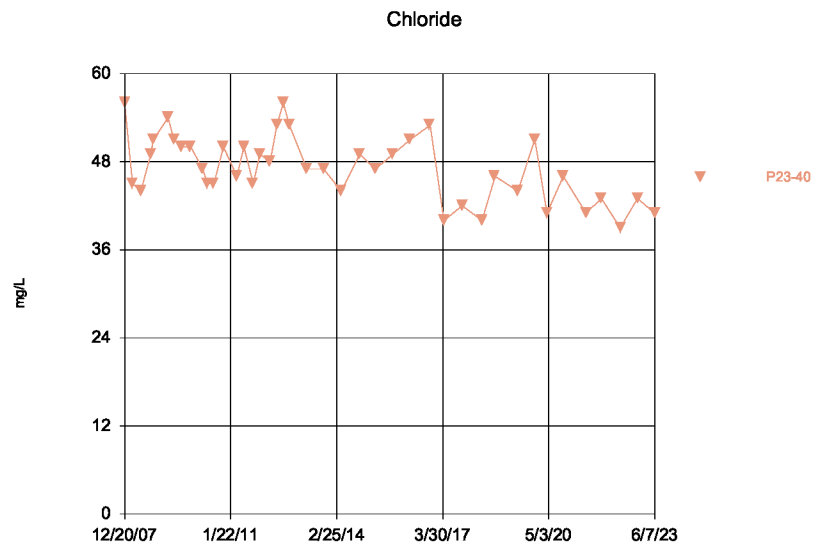

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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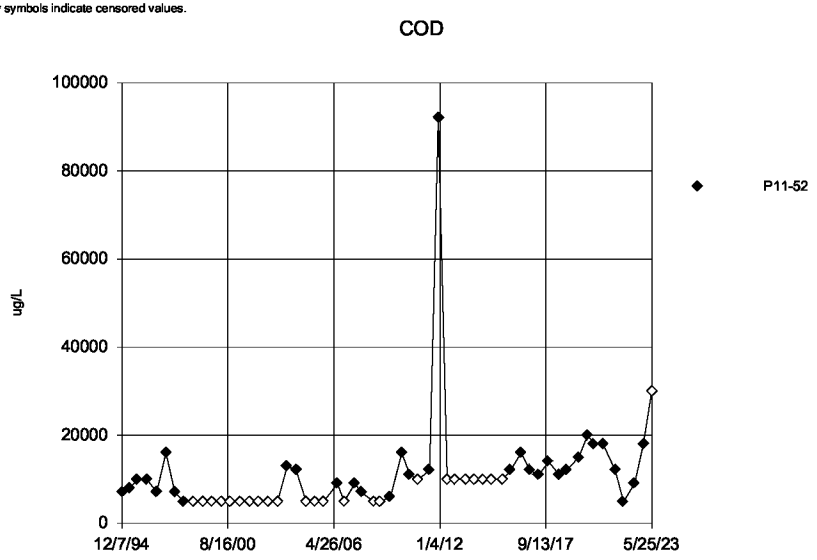

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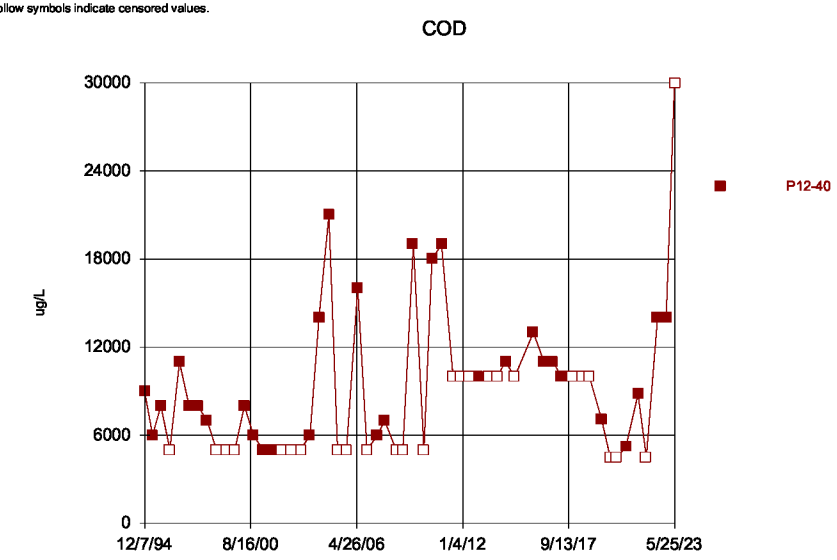

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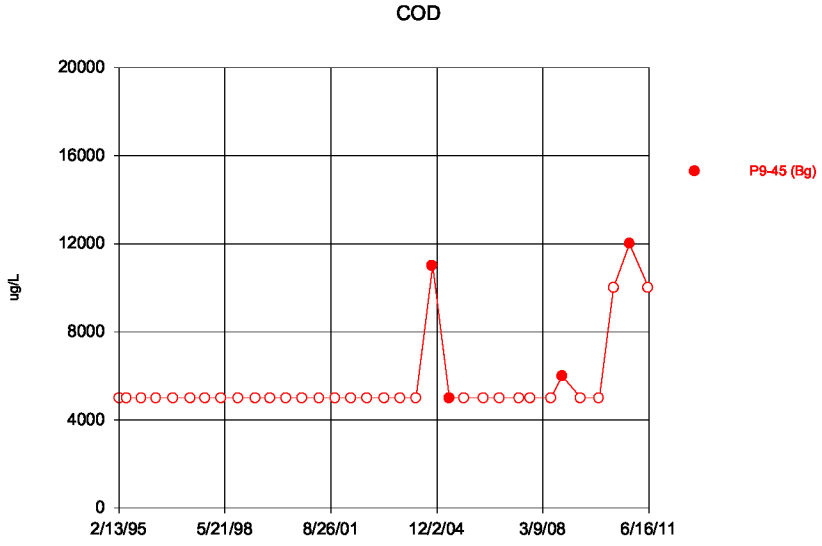

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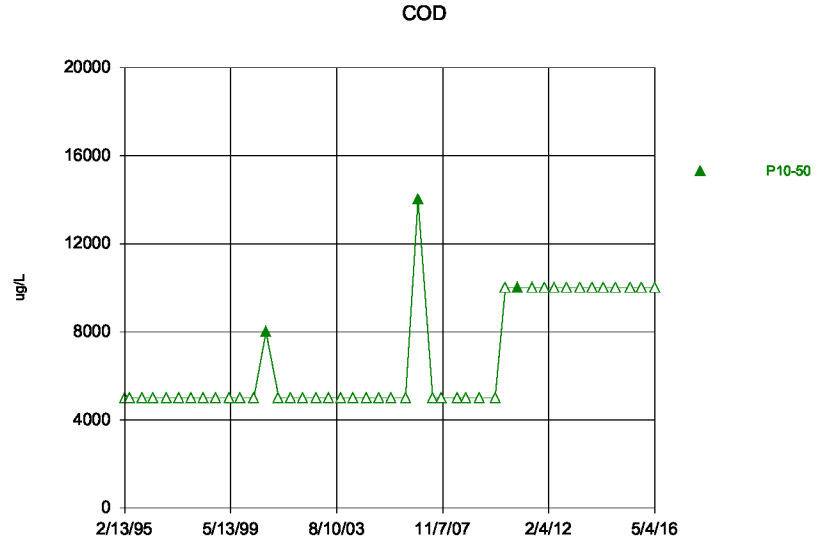

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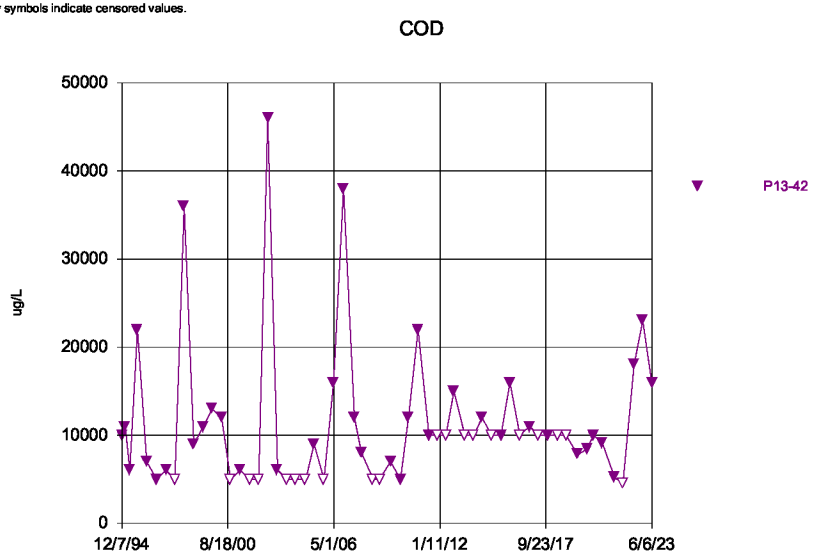

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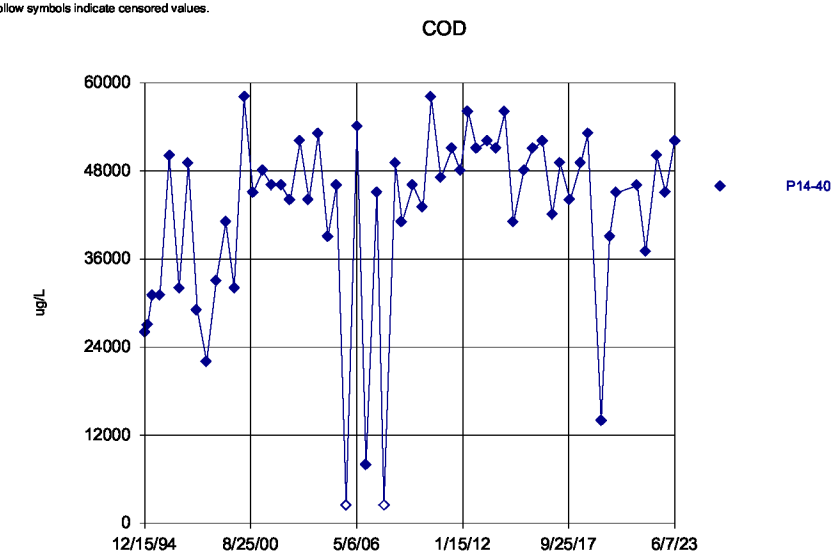

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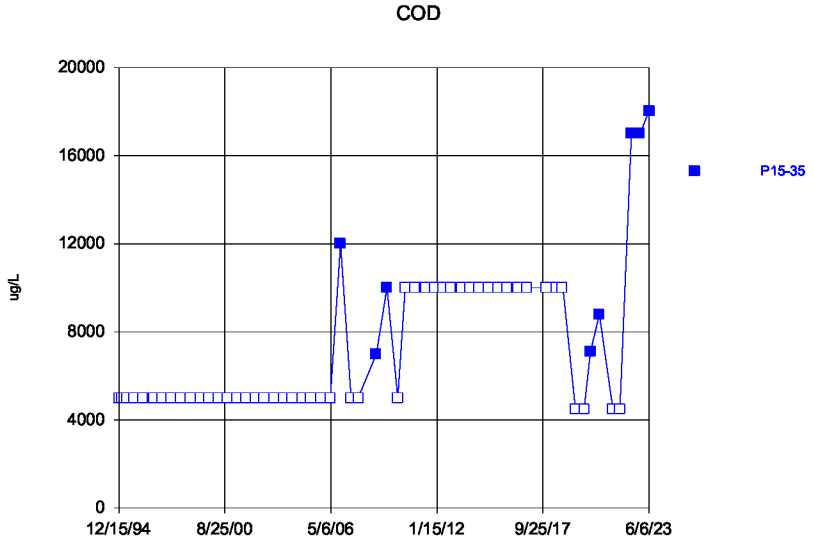

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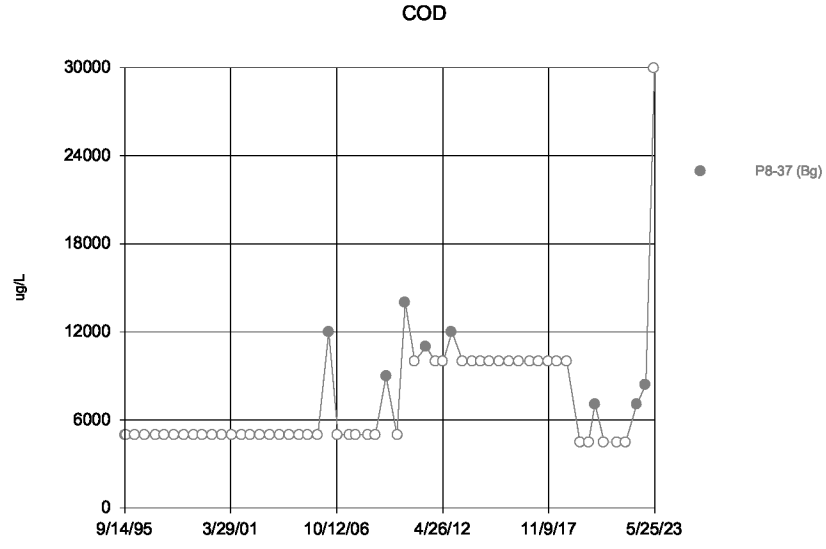

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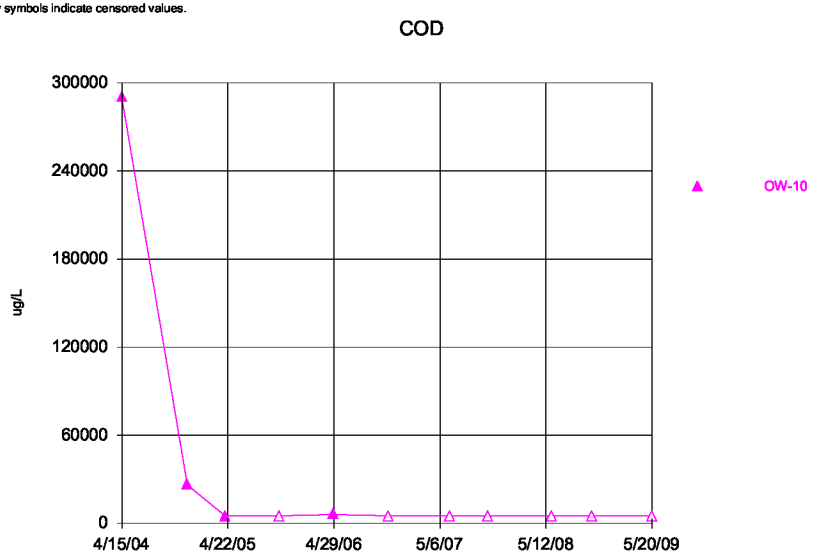

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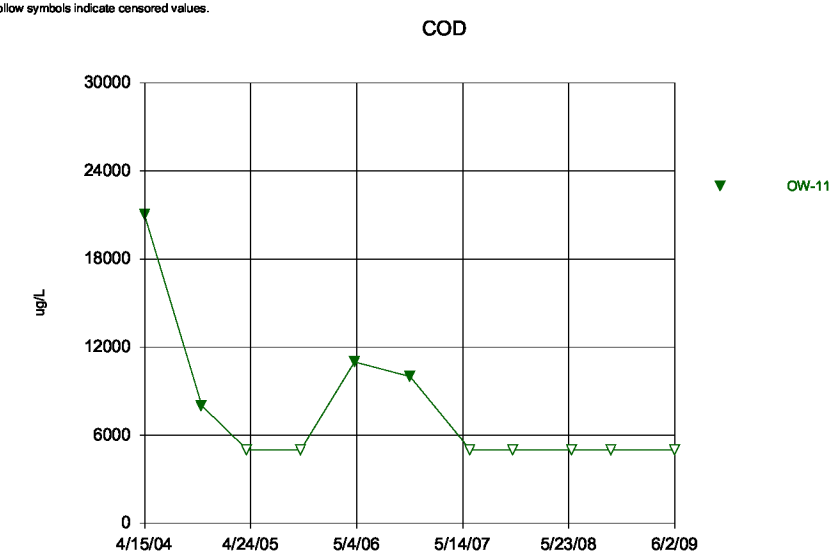

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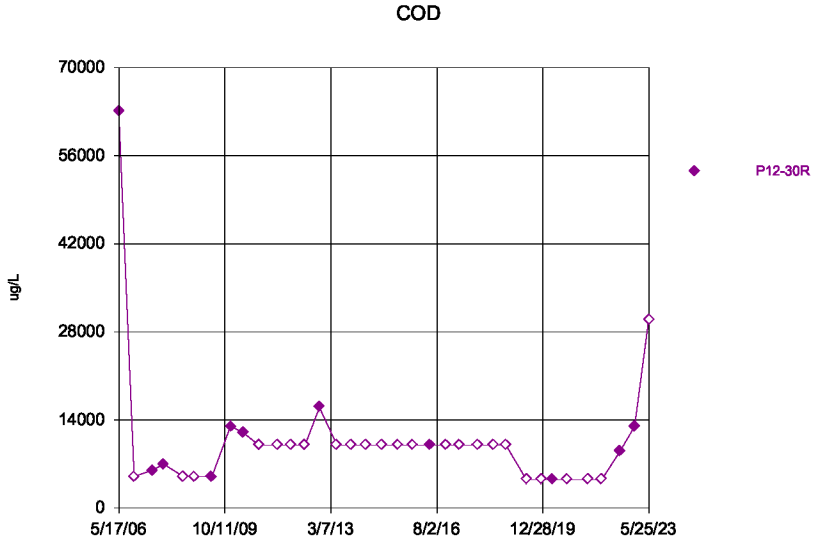

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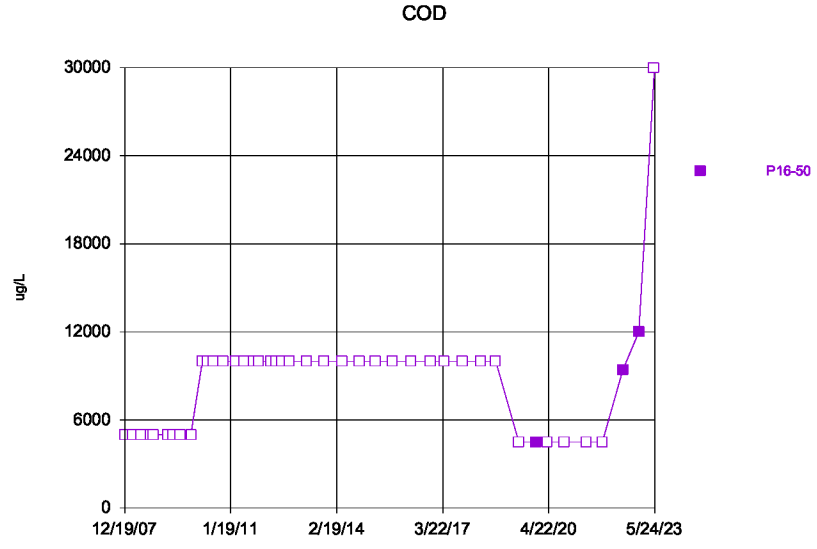

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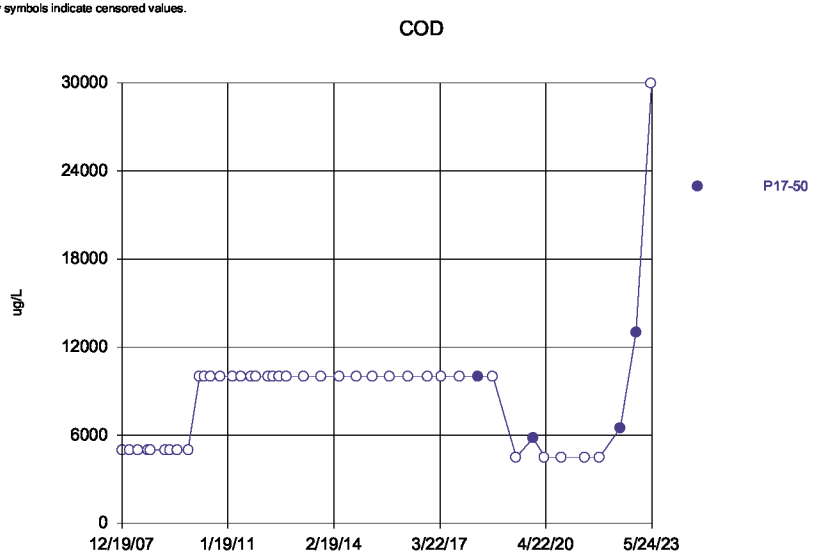

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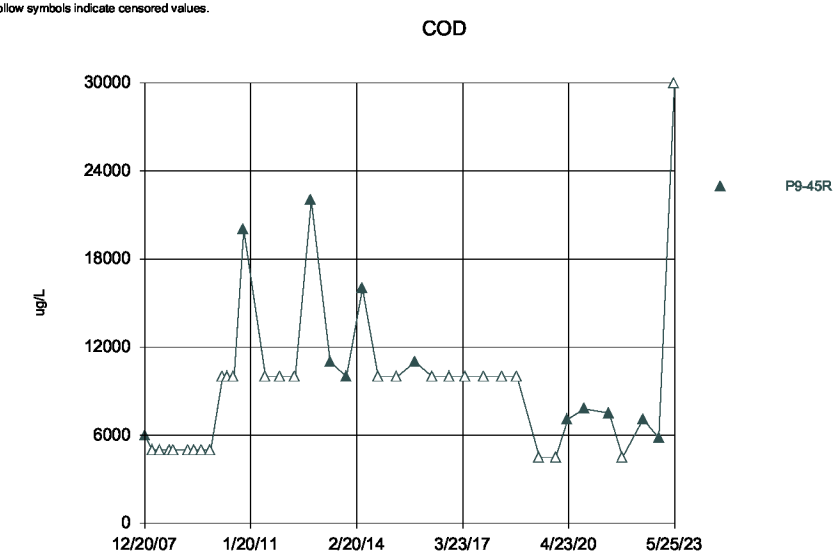

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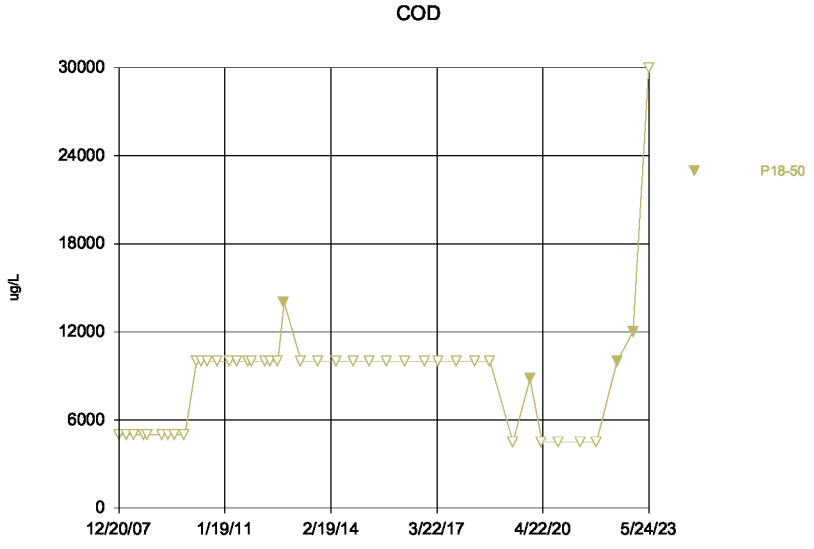

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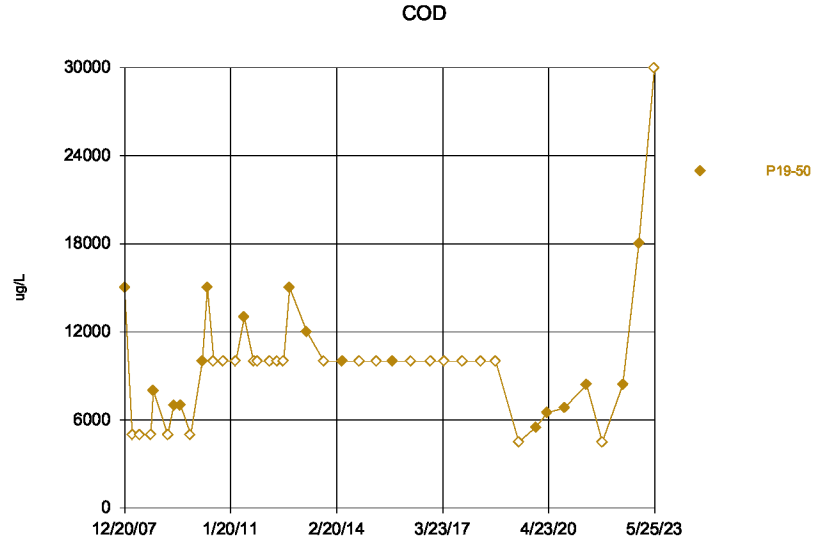

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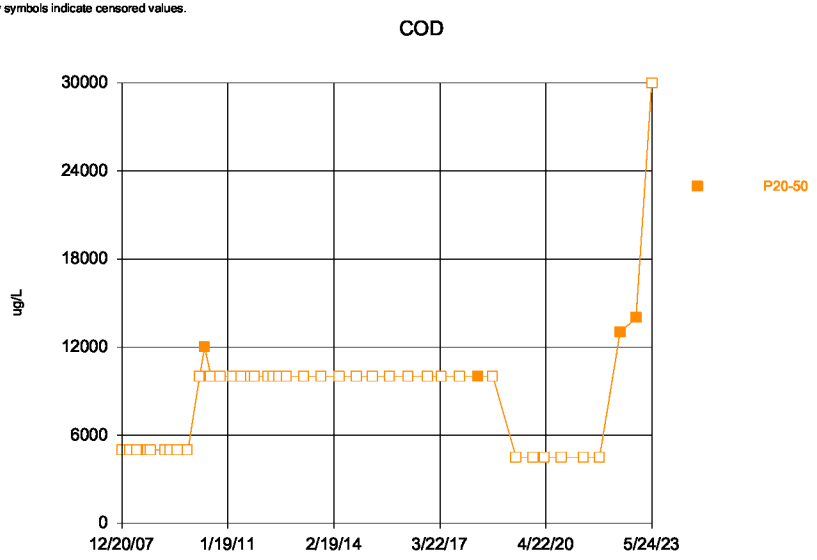

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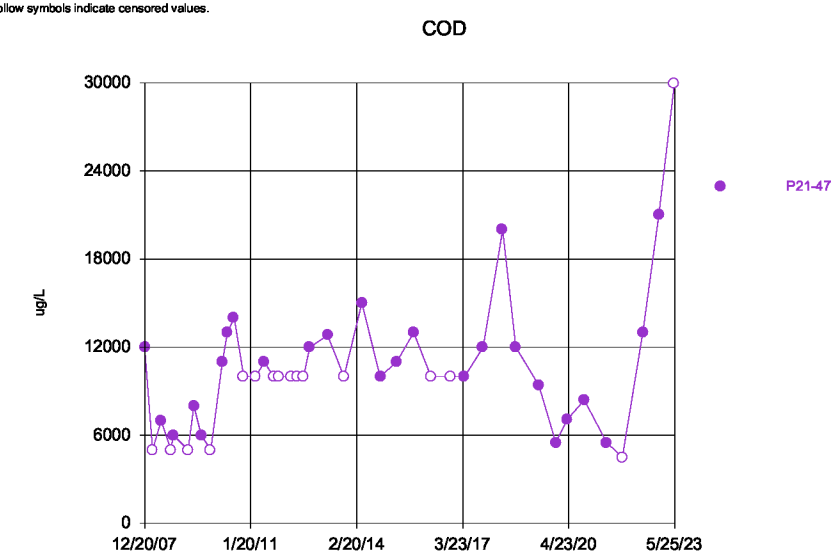

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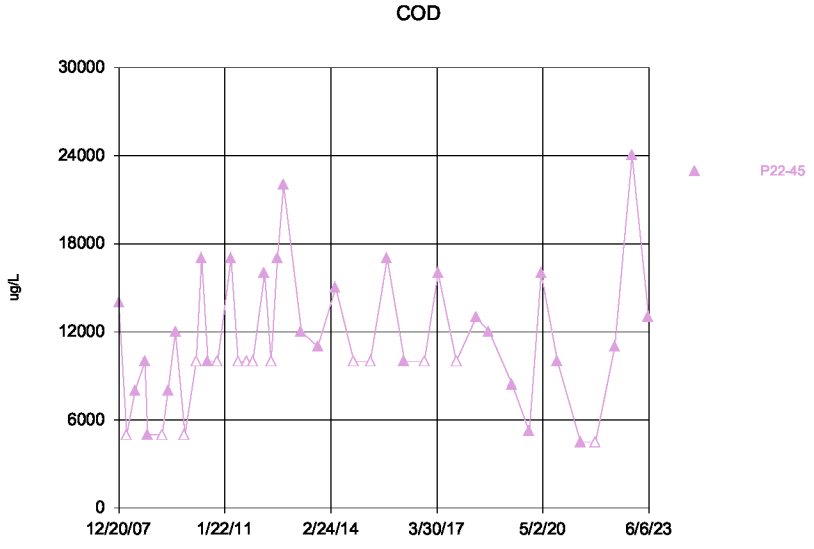

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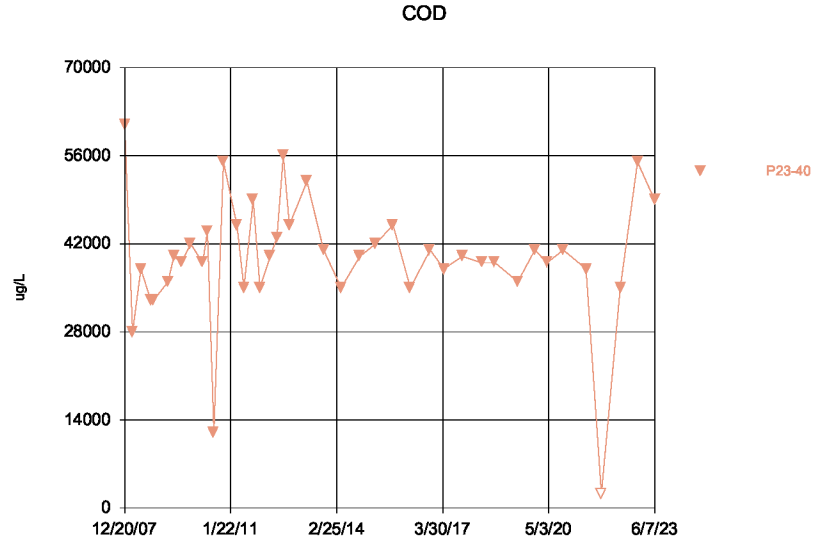
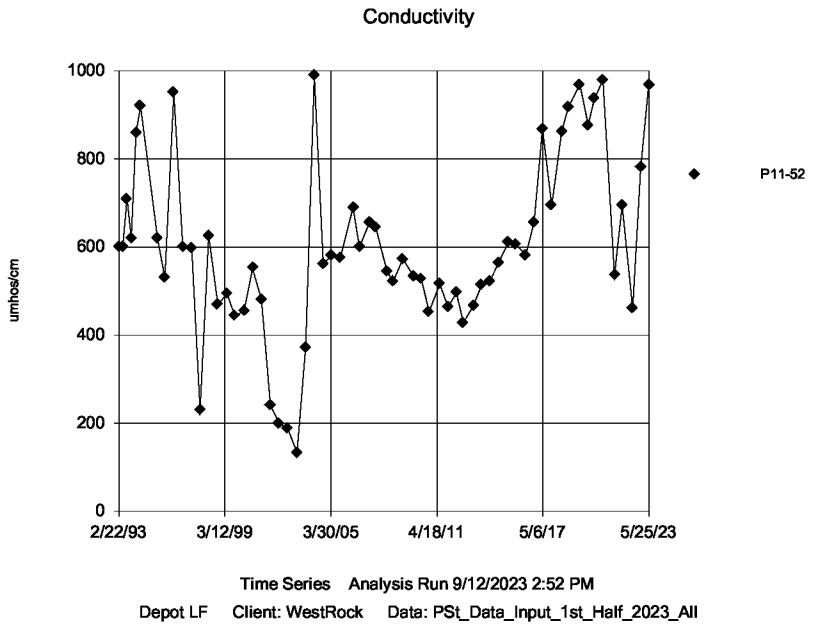
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Time Series Analysis Run 9/12/2023 2:52 PM
Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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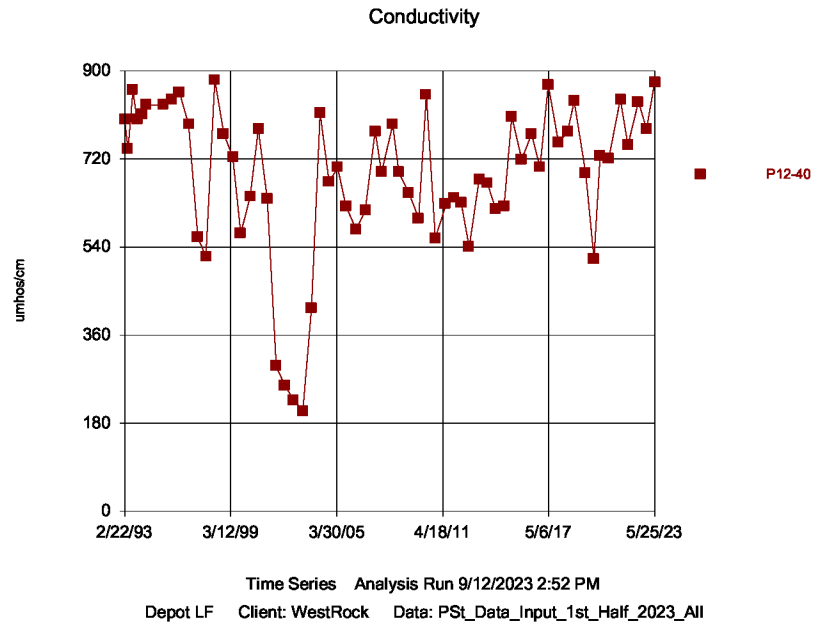
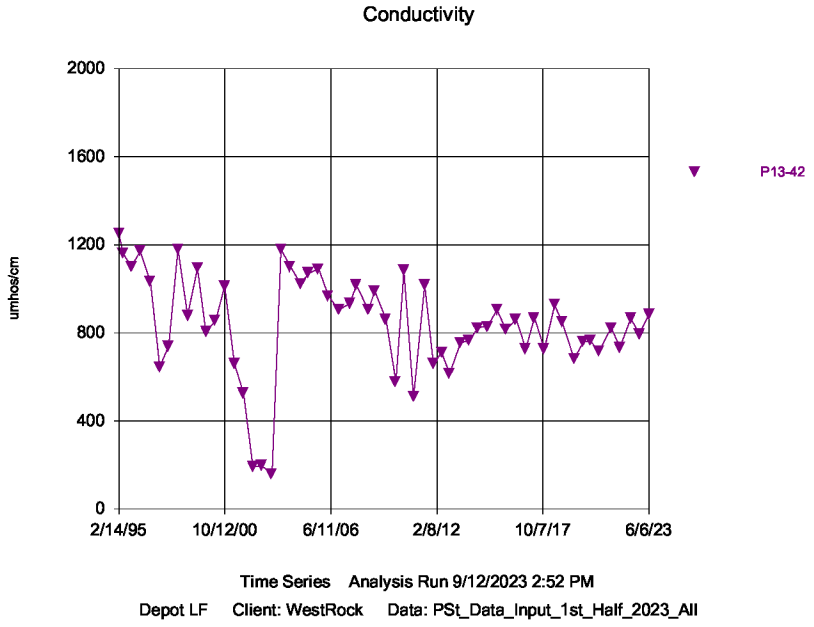


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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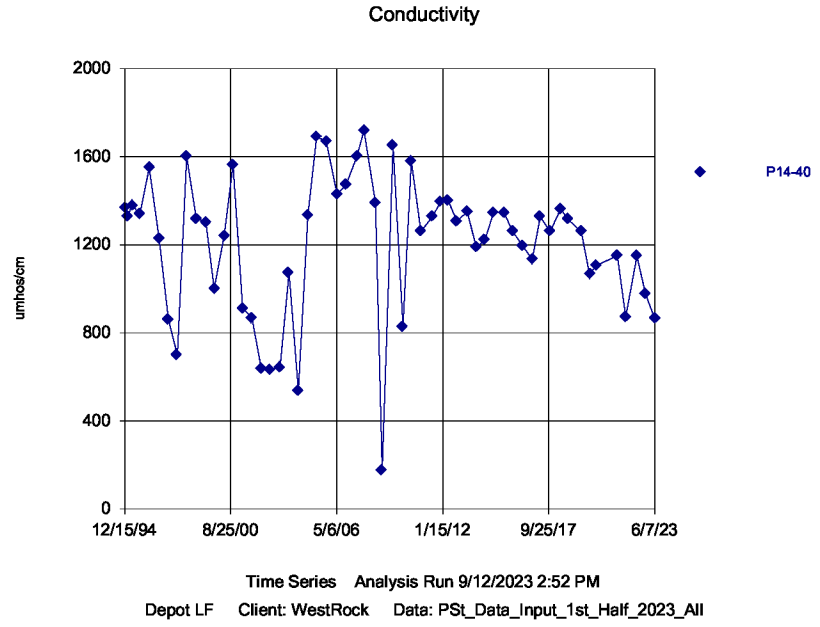

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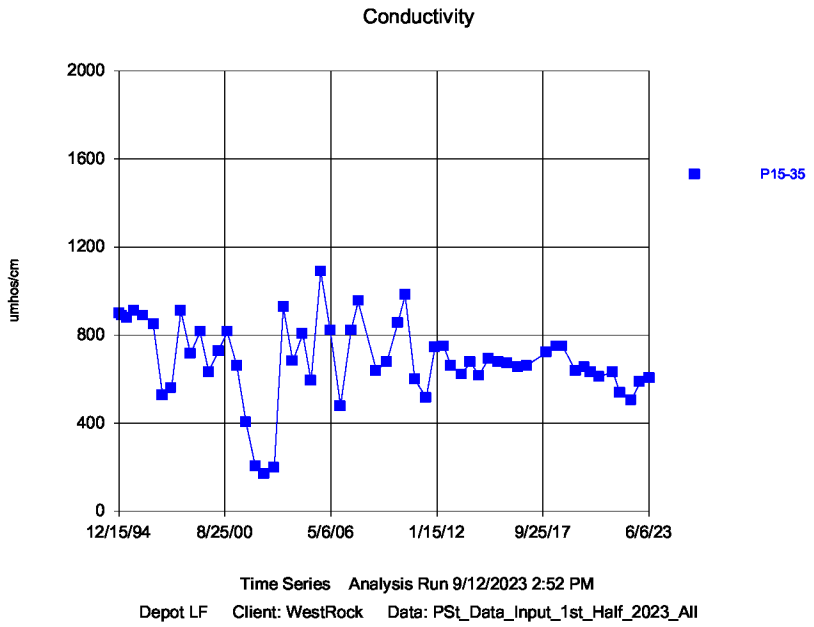

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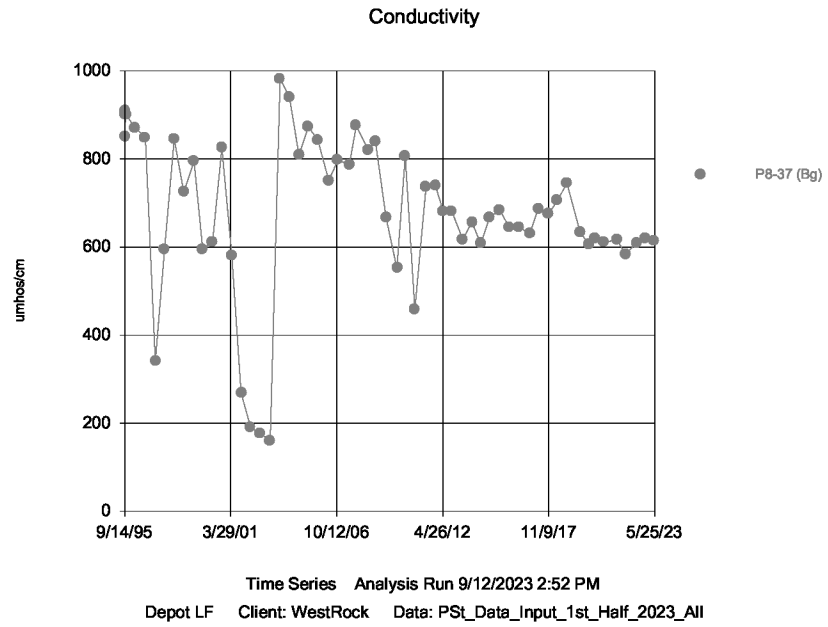

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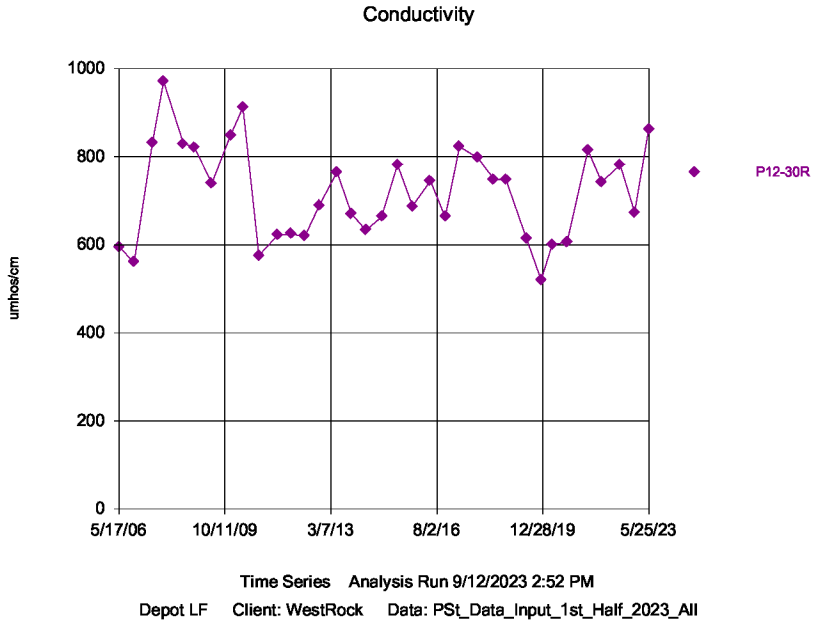

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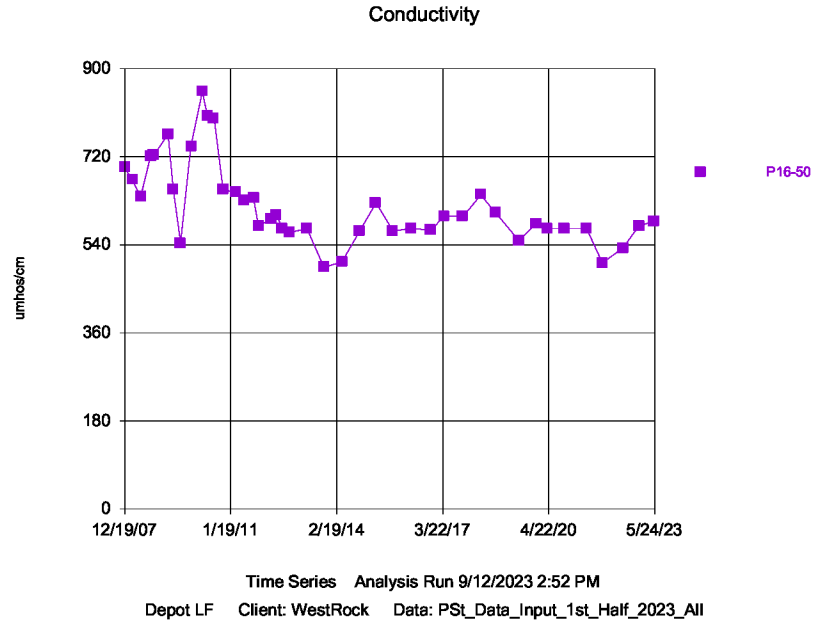

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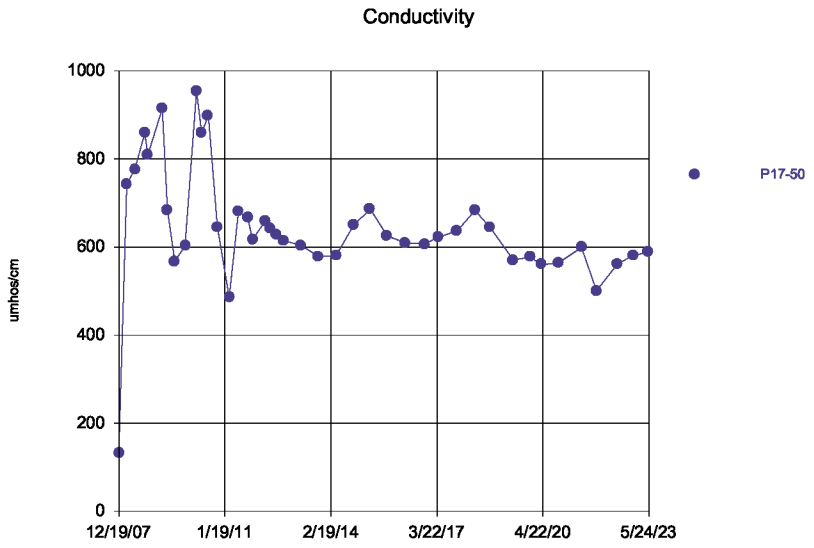

Time Series Analysis Run 9/12/2023 2:52 PM

Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

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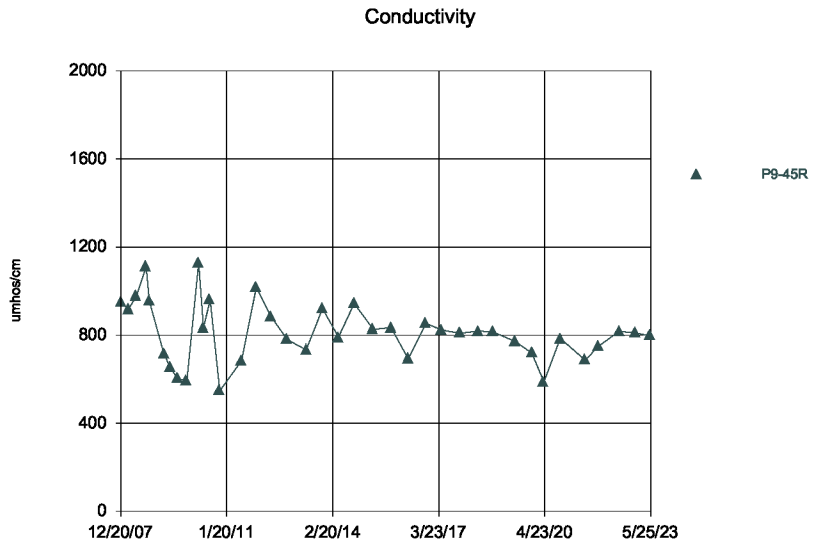

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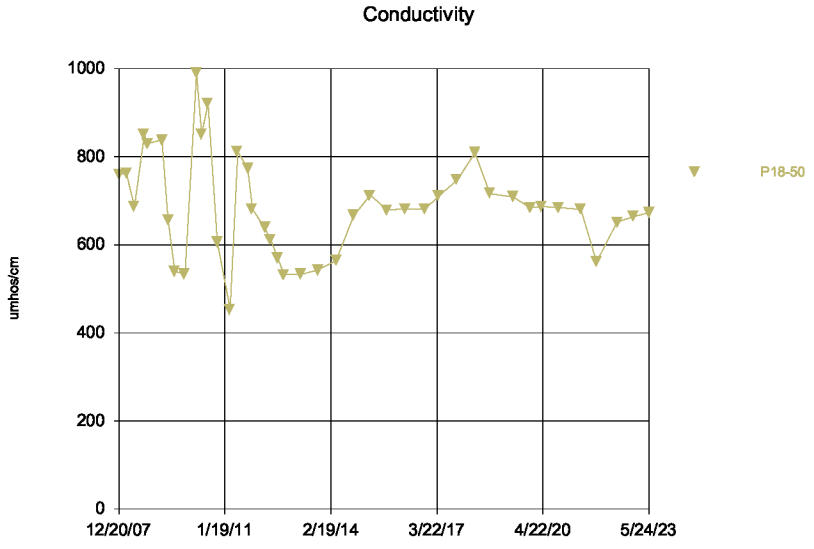

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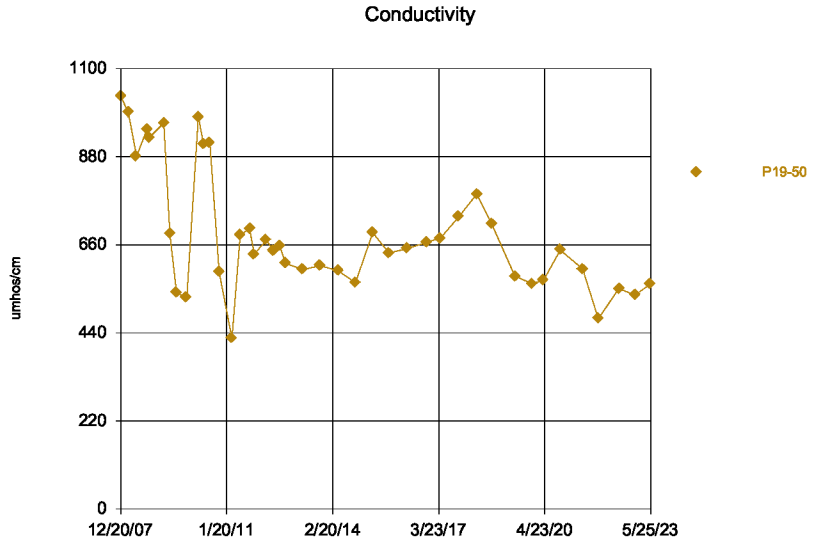

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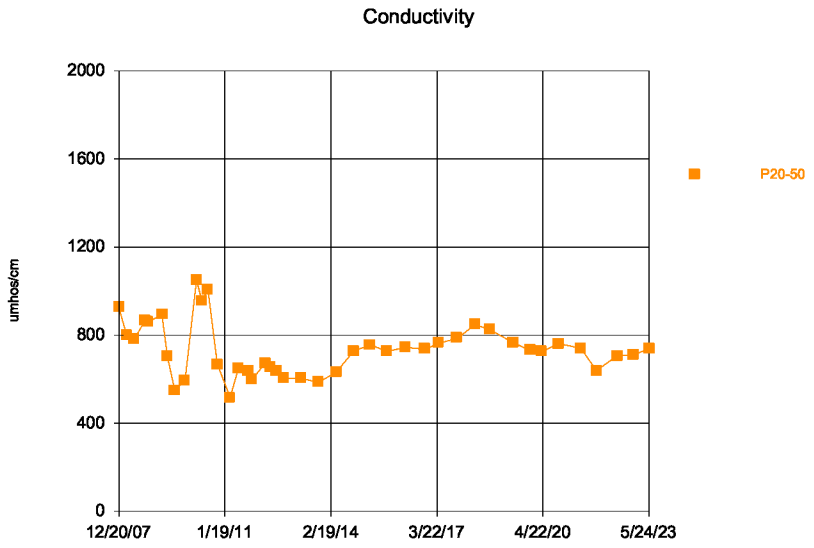

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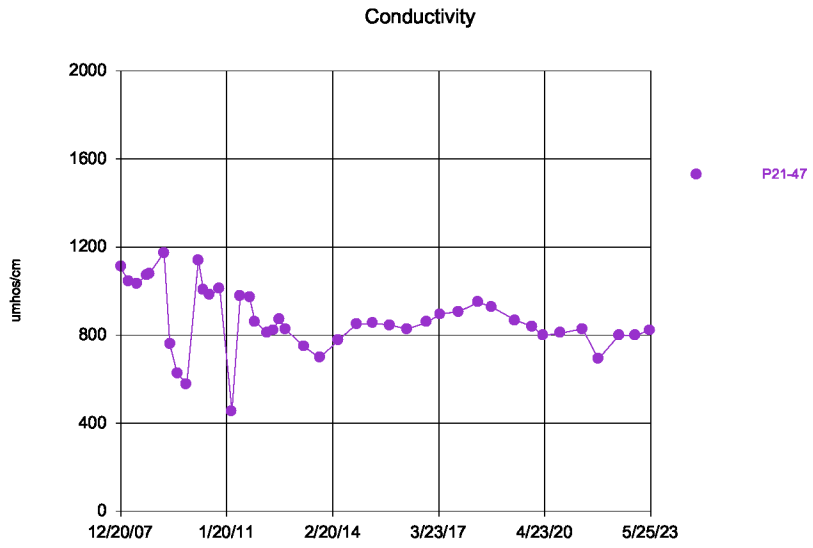

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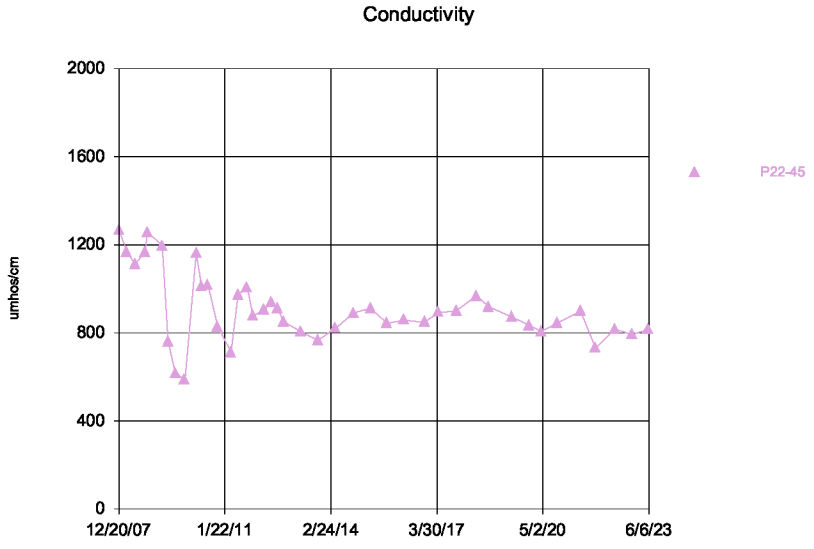
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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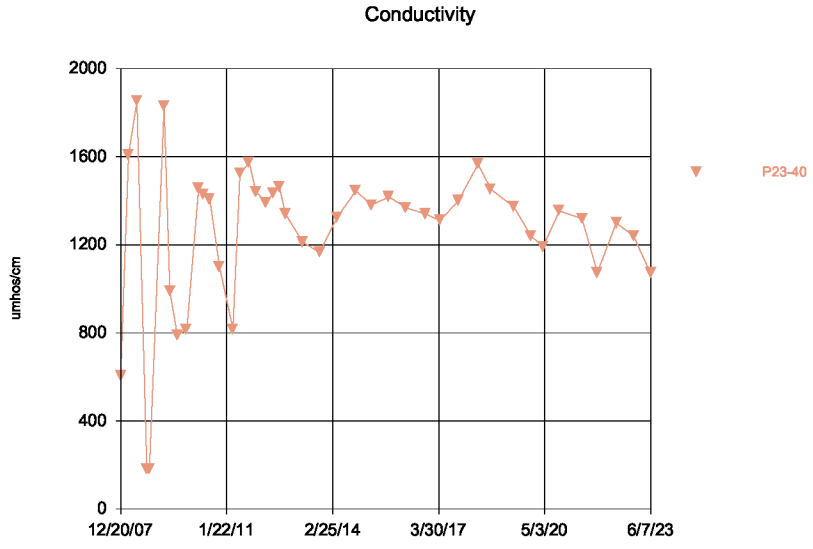

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Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

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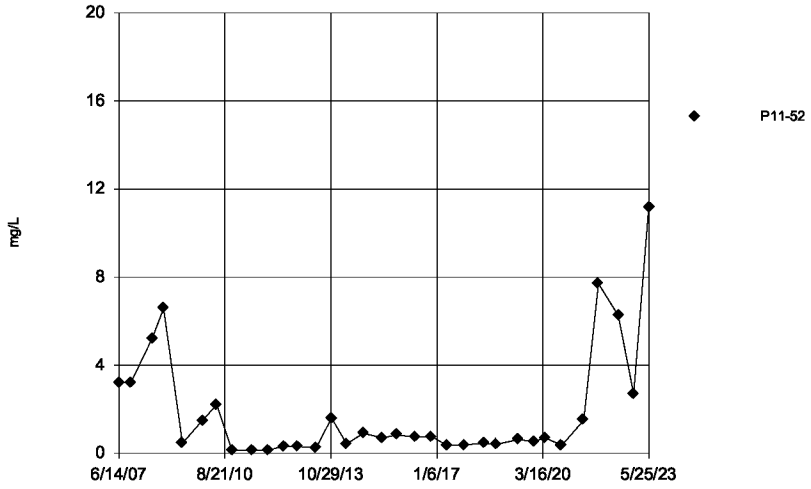
Dissolved Oxygen



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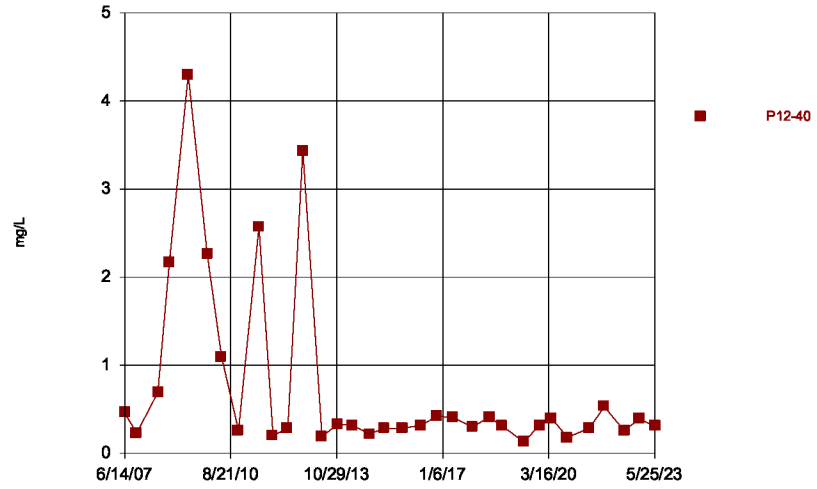
Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Dissolved Oxygen



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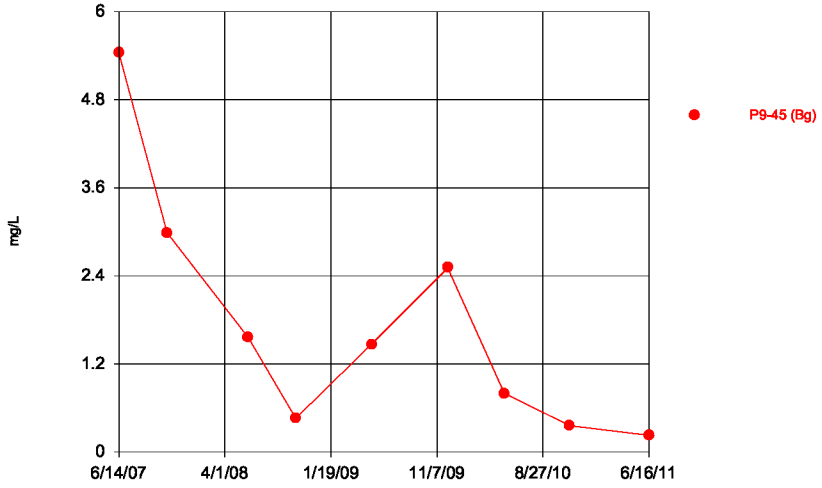
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Dissolved Oxygen



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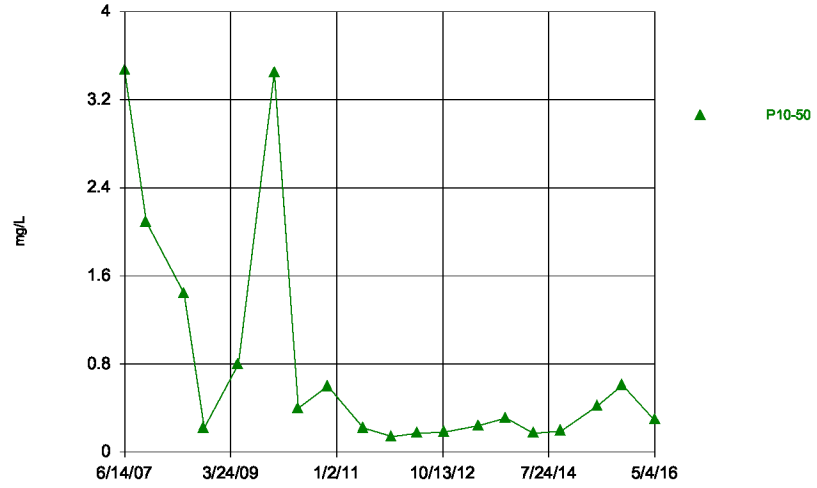
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Dissolved Oxygen



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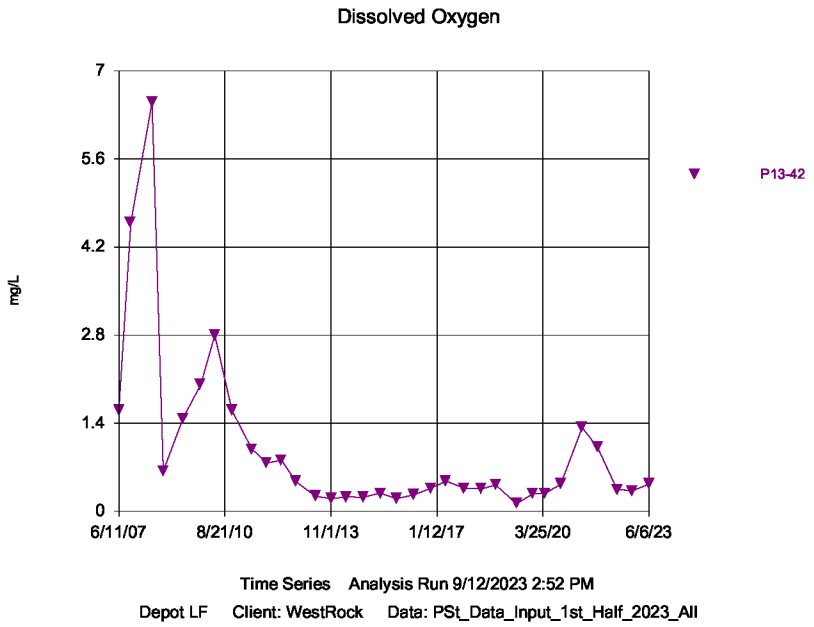

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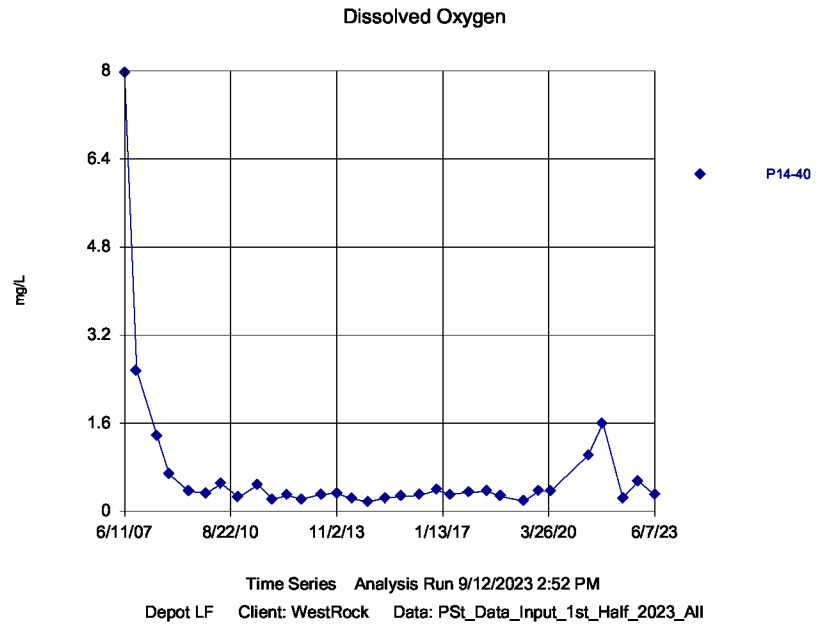

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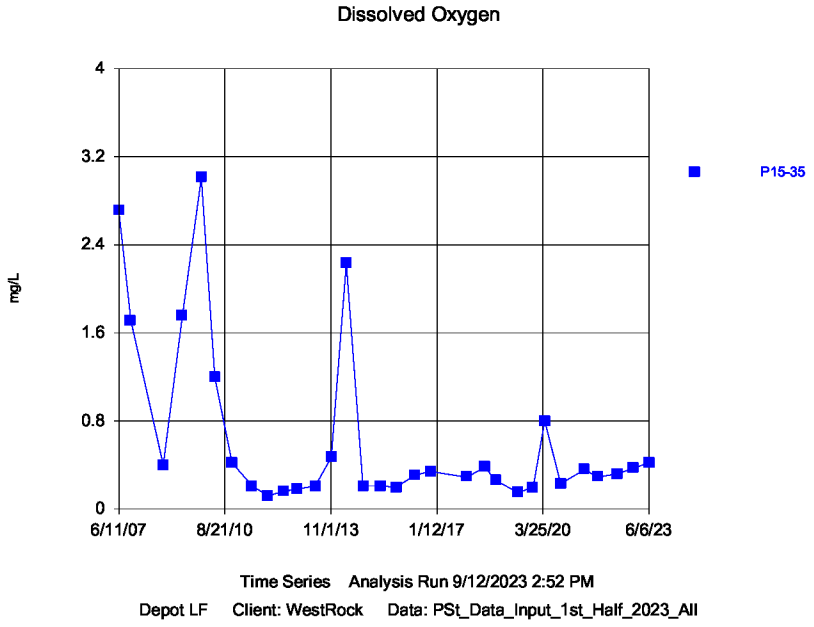

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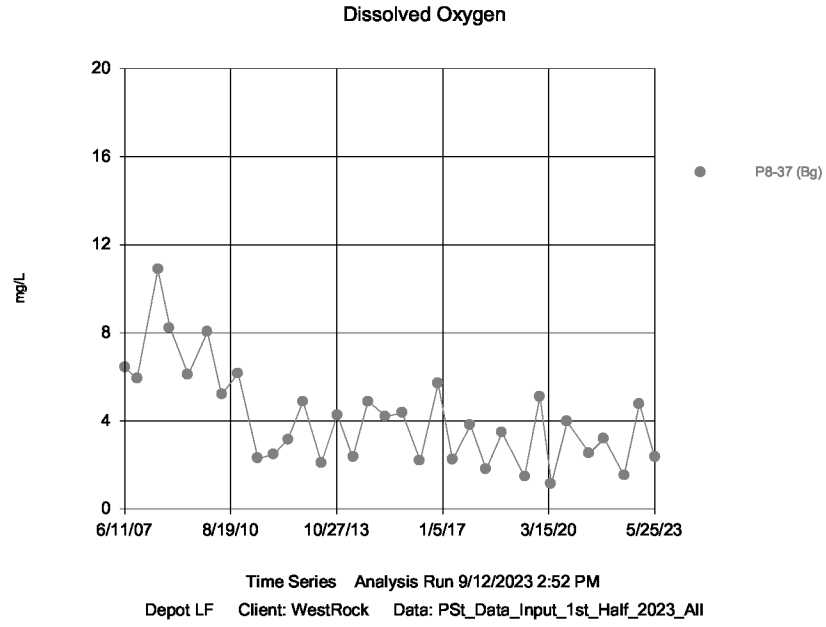

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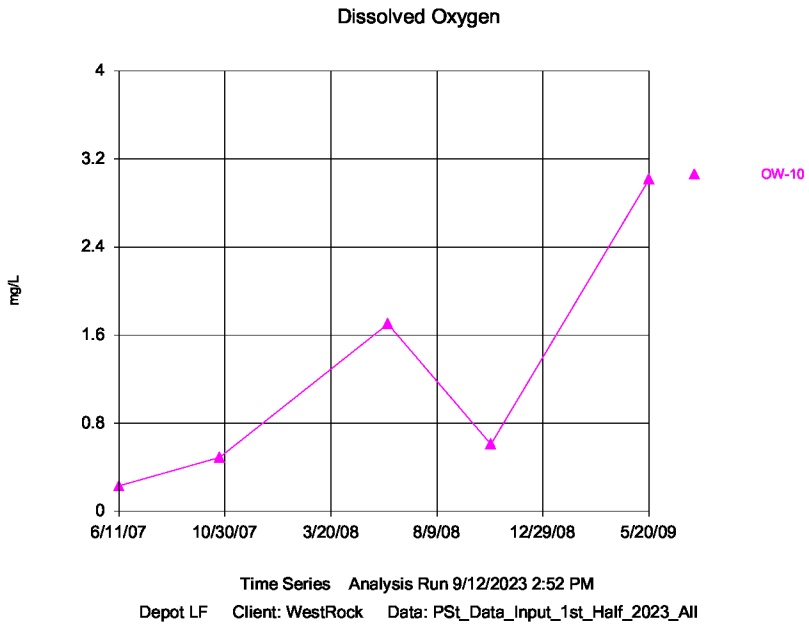

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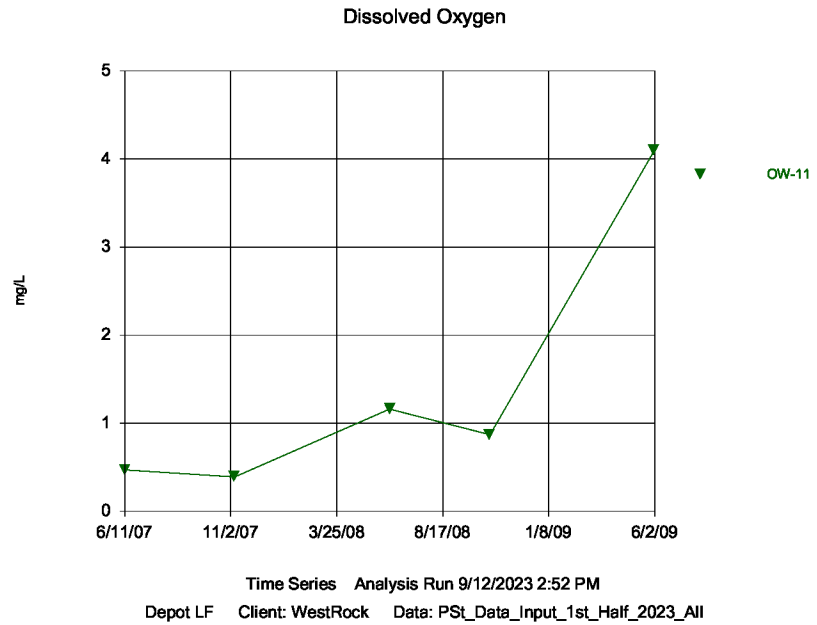

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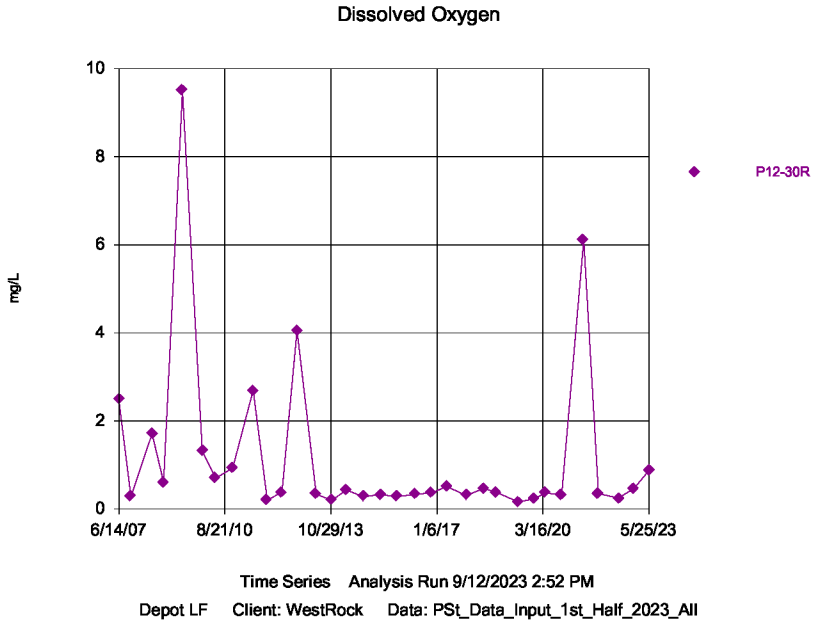

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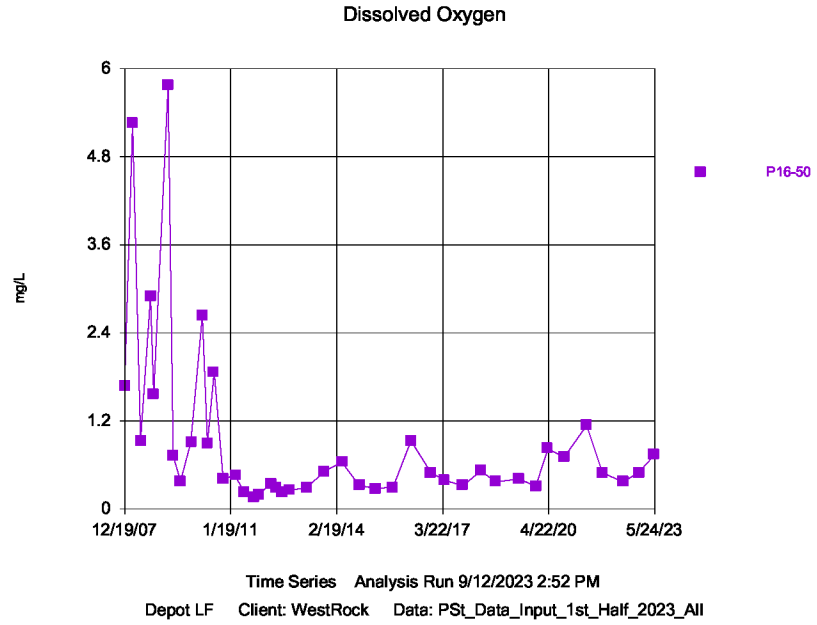
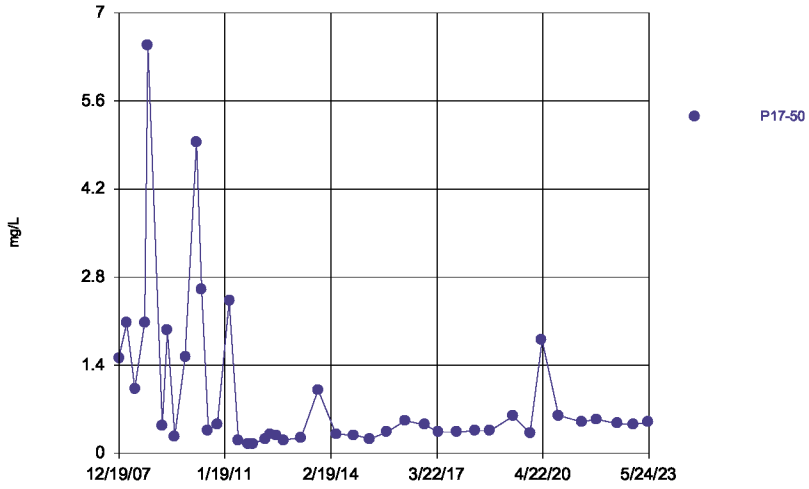


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Dissolved Oxygen

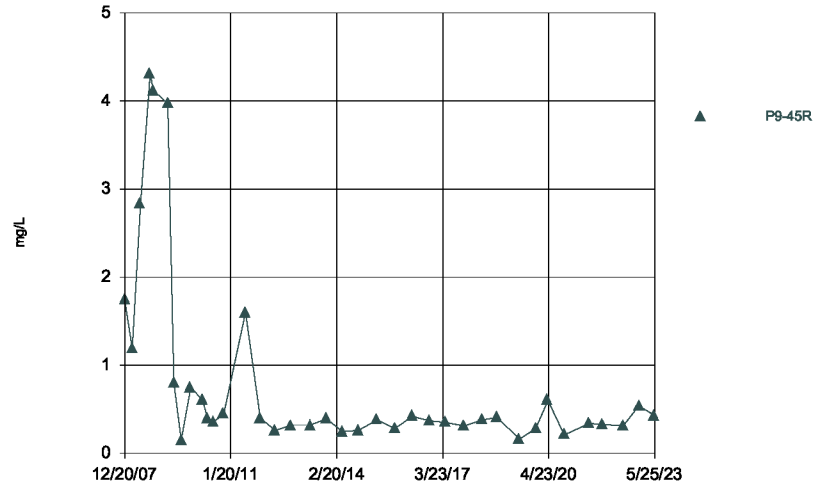


Time Series Analysis Run 9/12/2023 2:53 PM

Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Dissolved Oxygen



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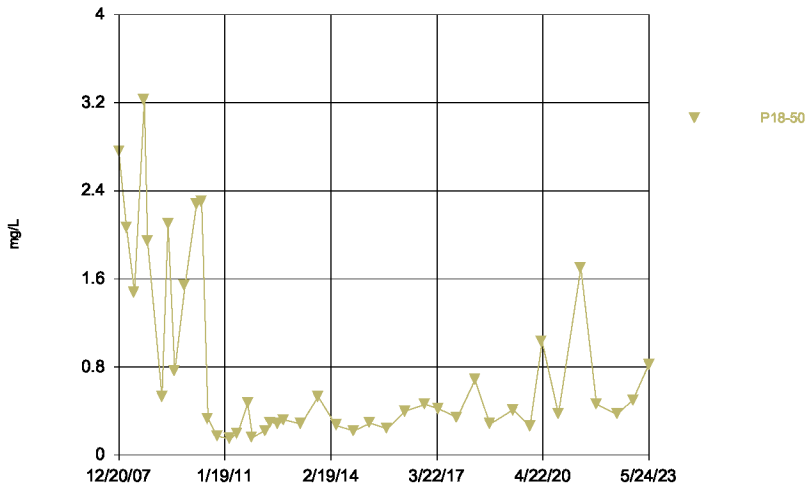
Dissolved Oxygen



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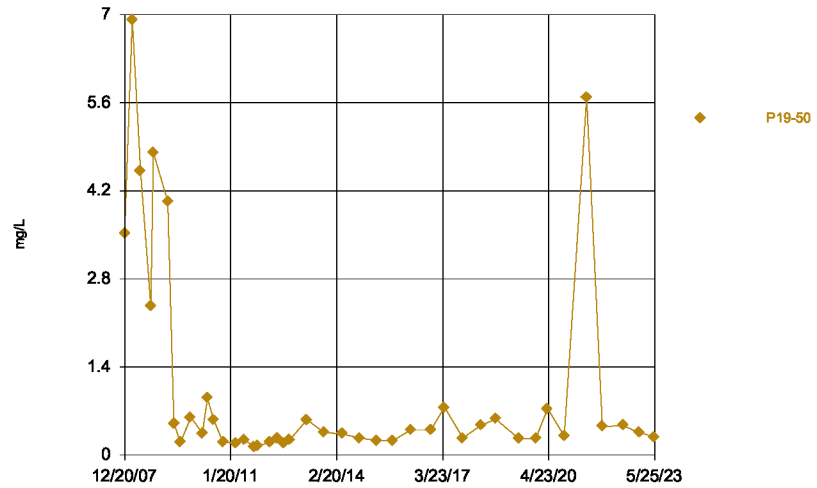
Dissolved Oxygen



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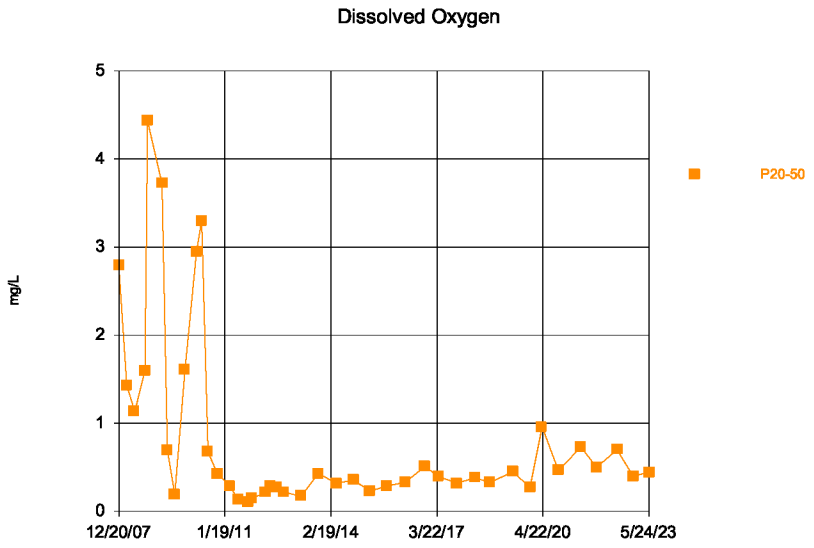

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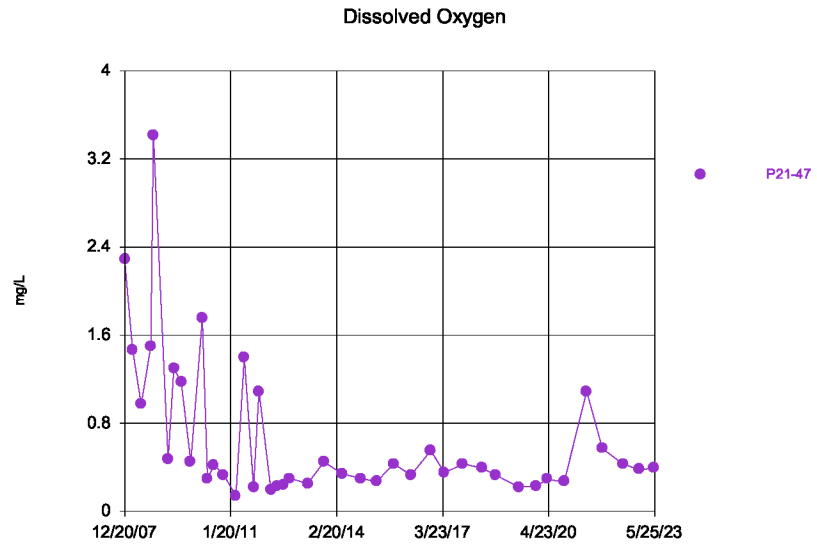

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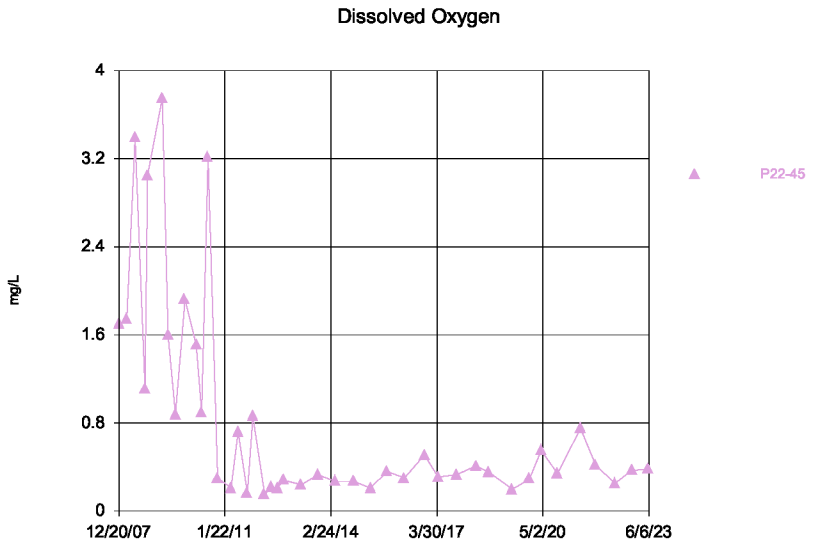

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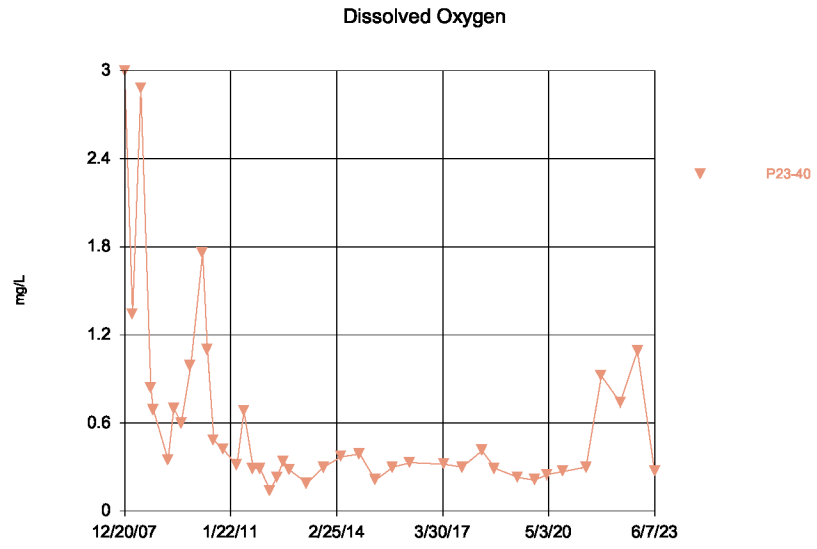

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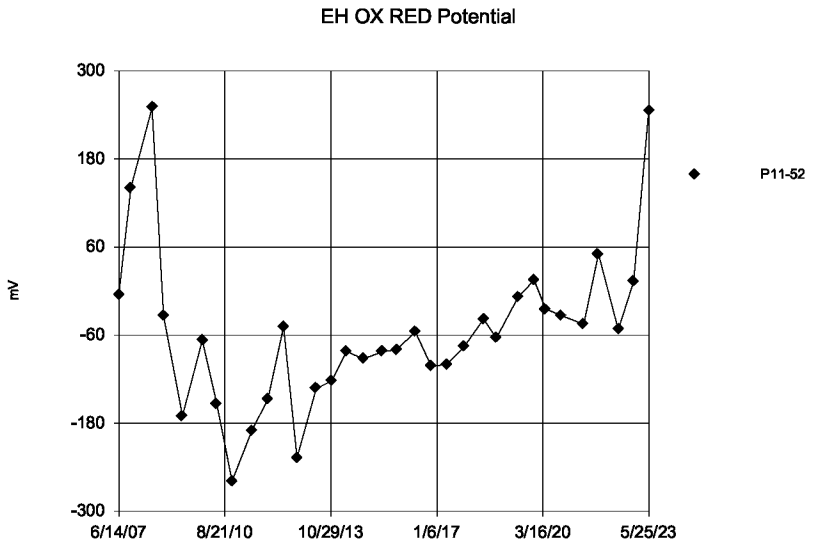

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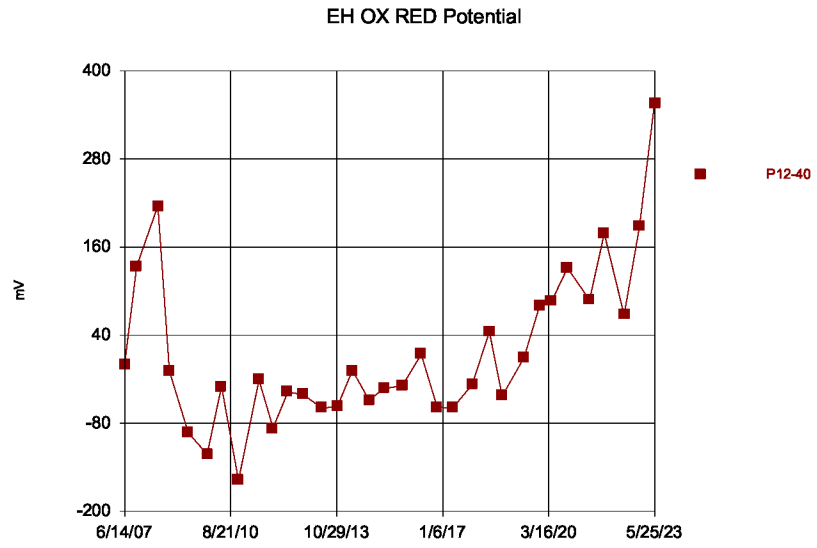

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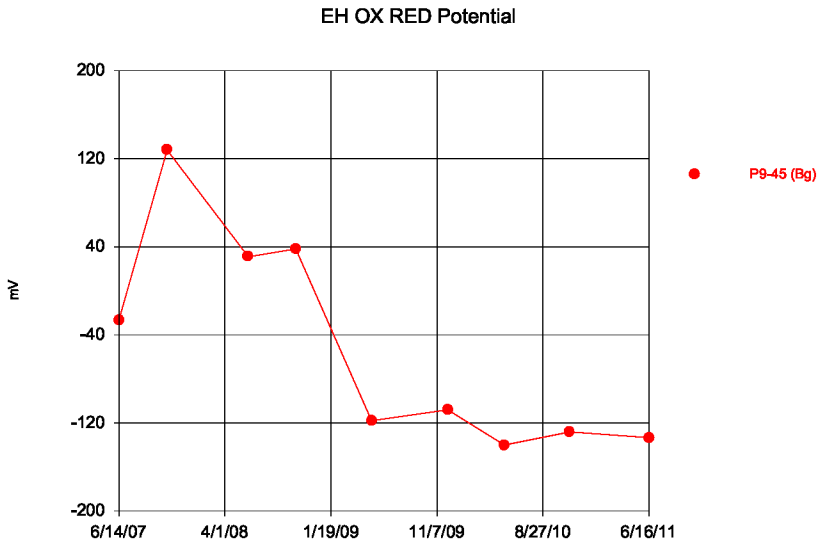

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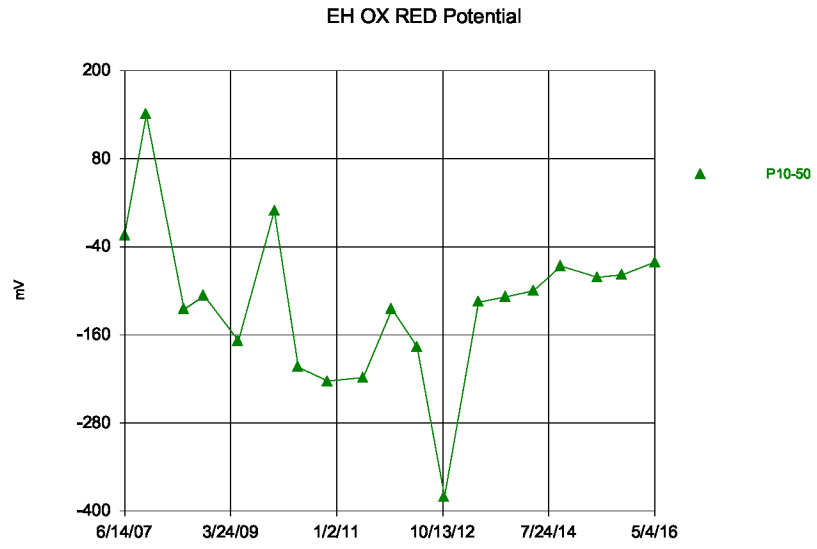

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Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

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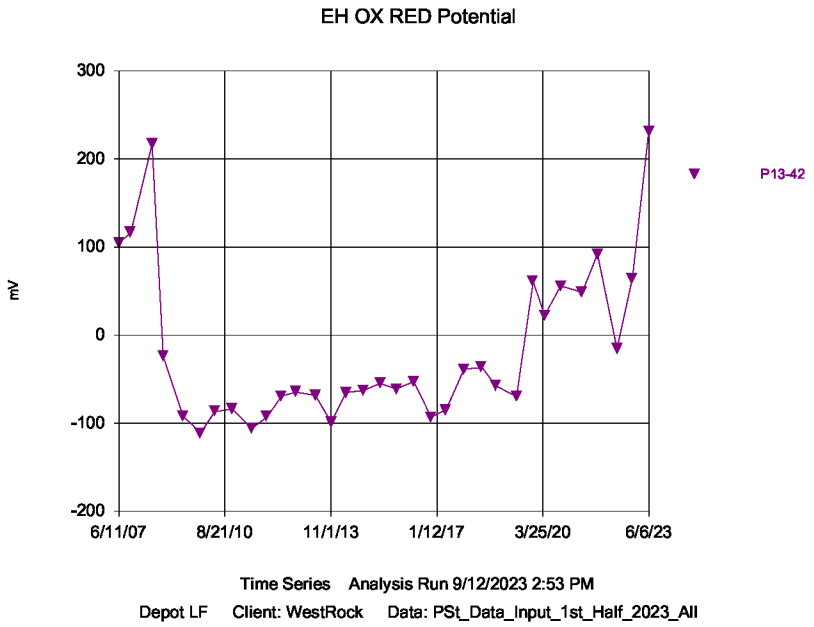

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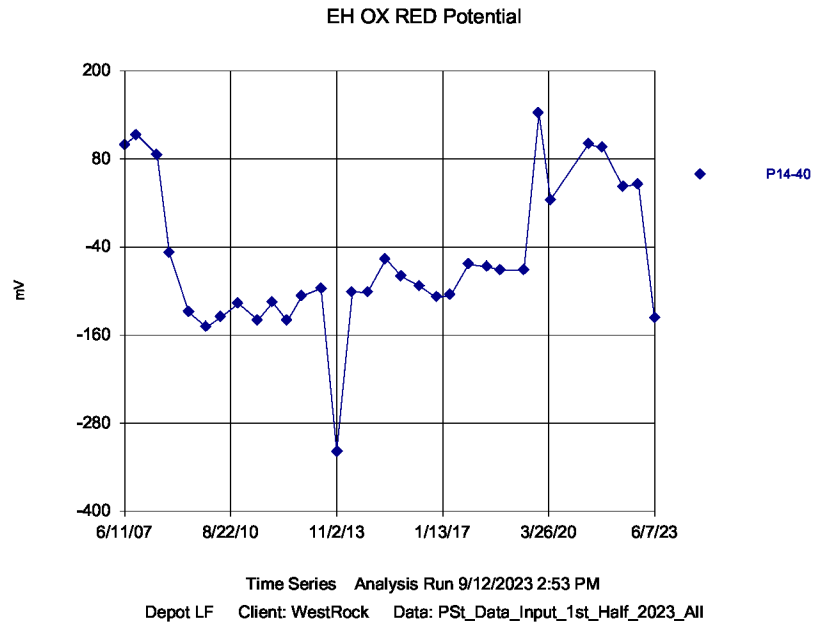

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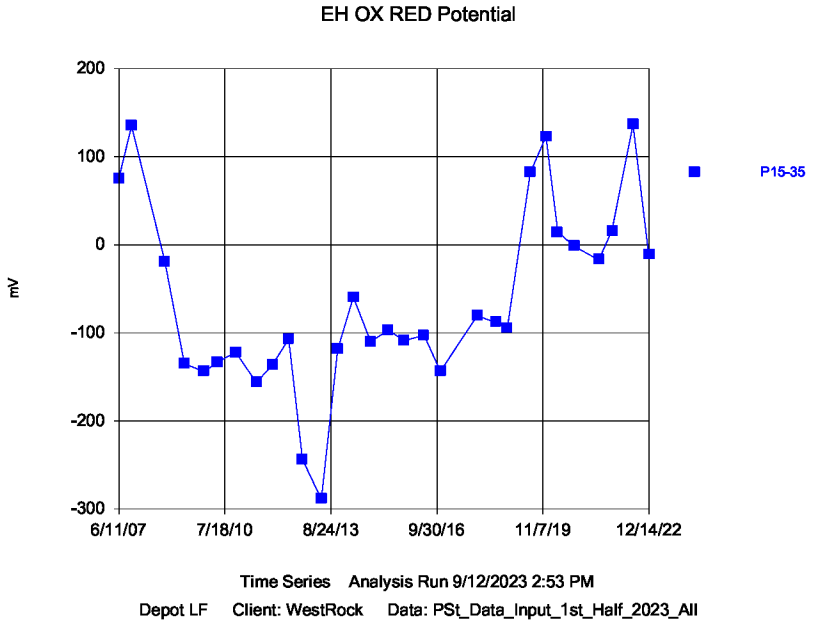

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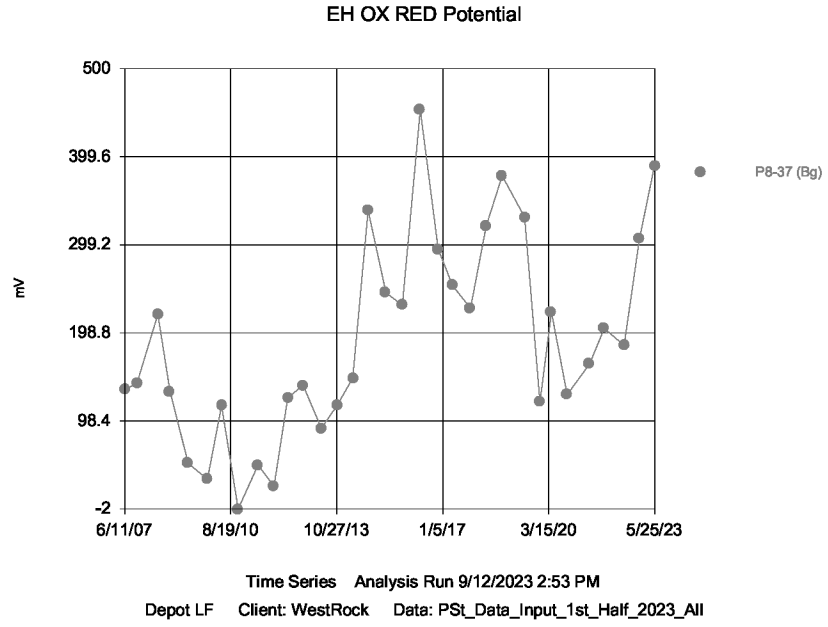

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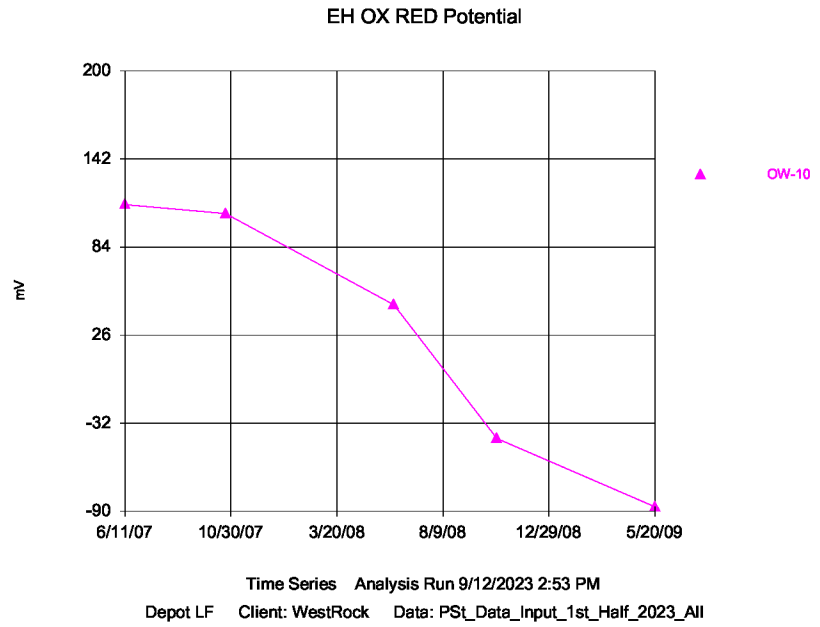

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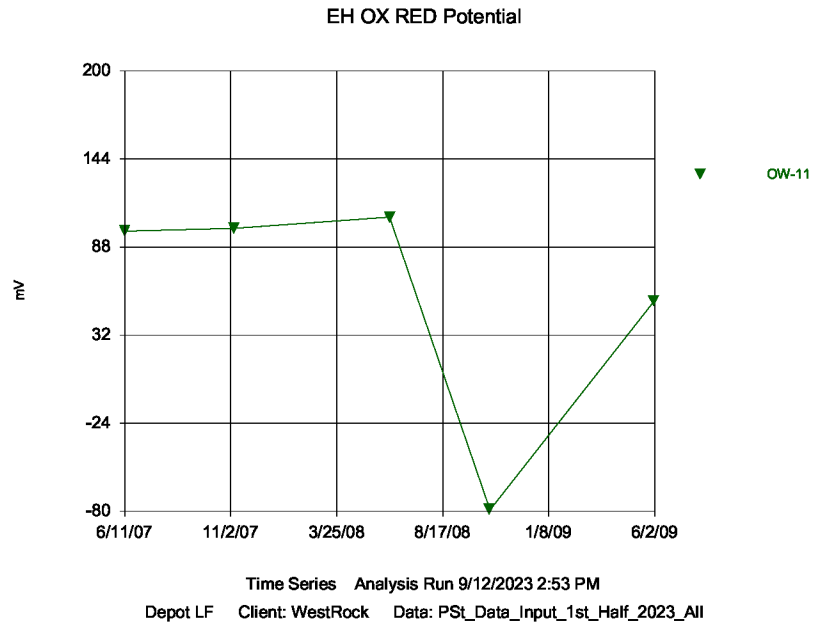

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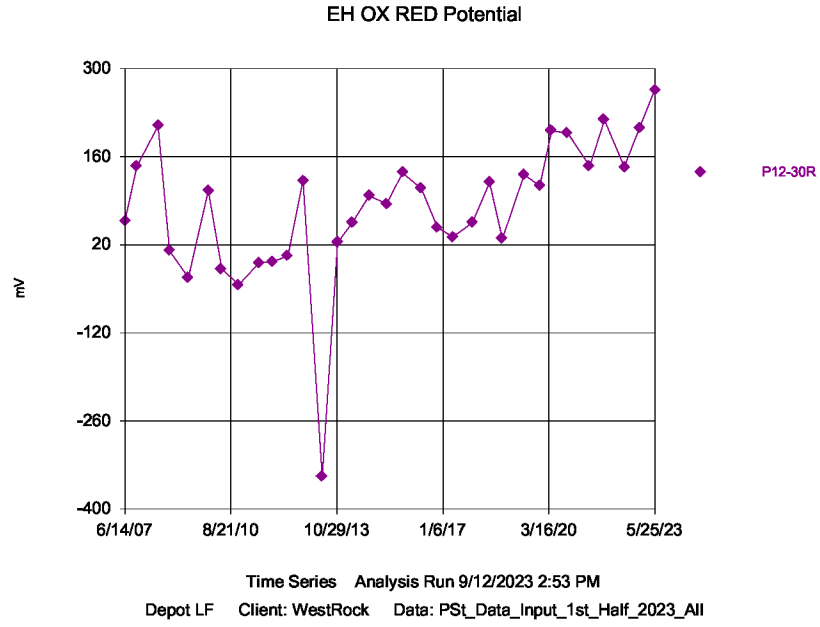

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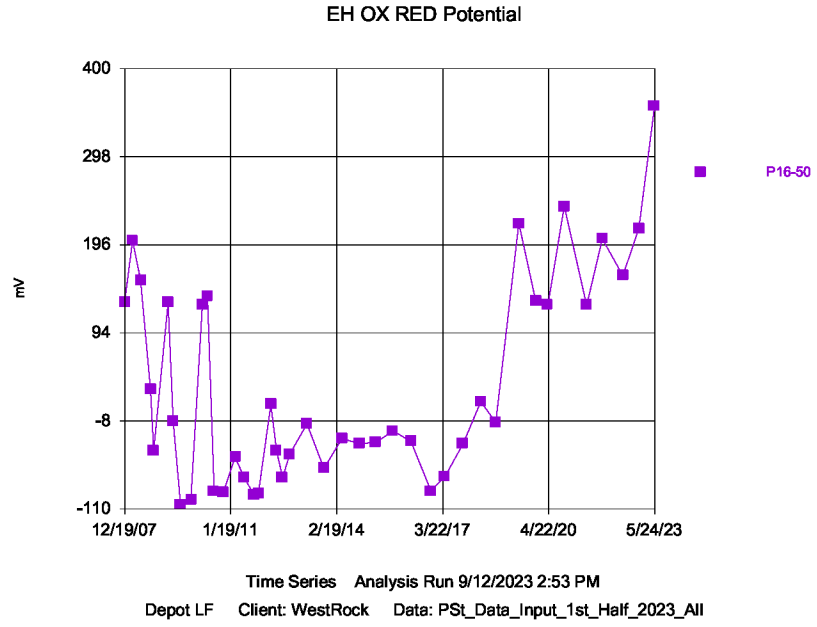

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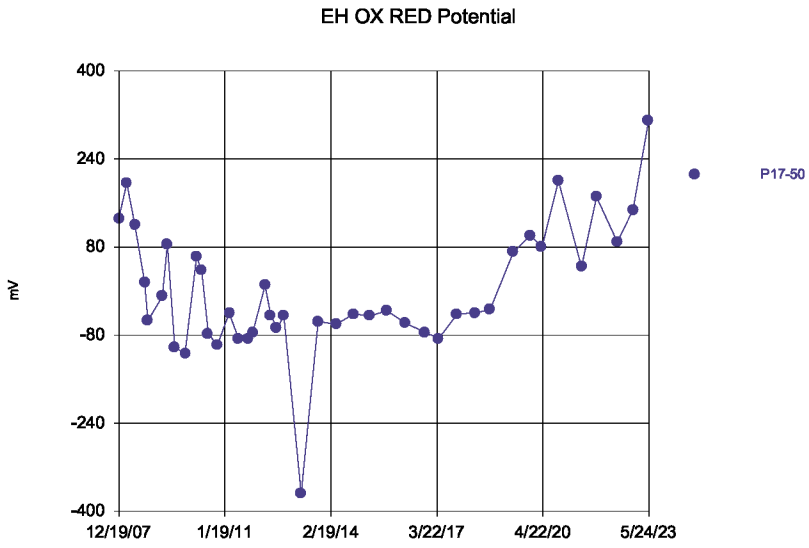

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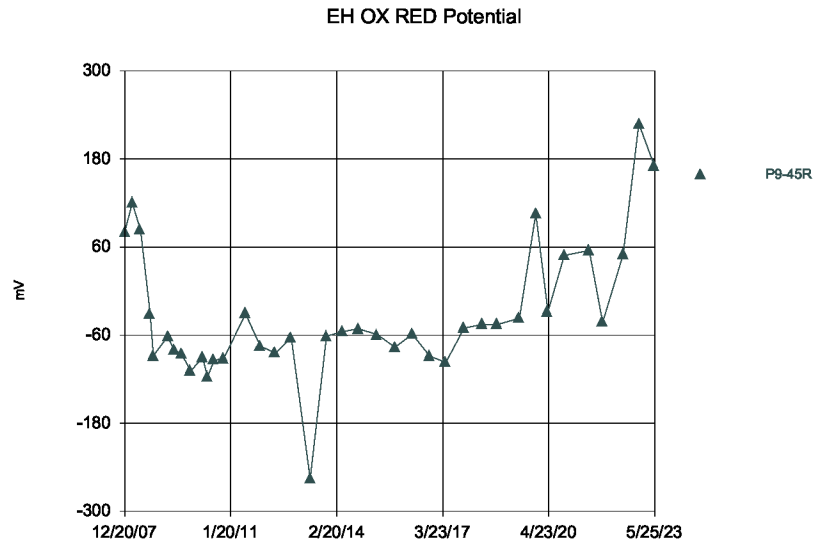

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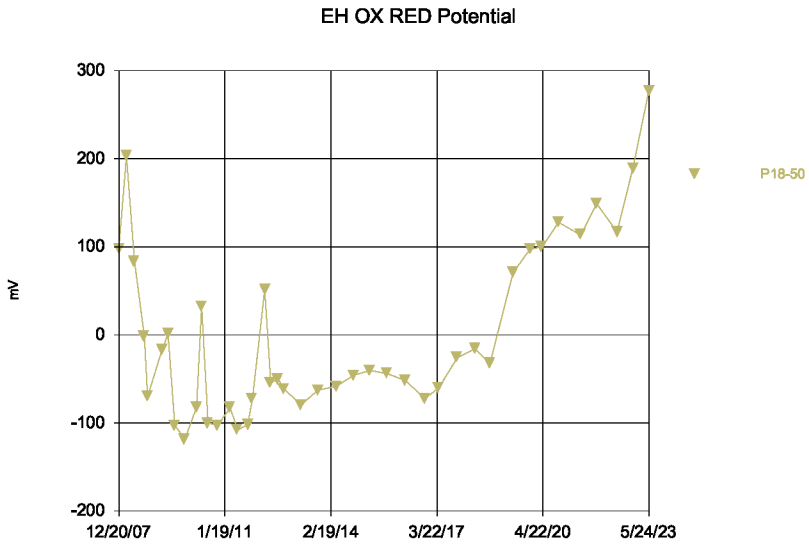

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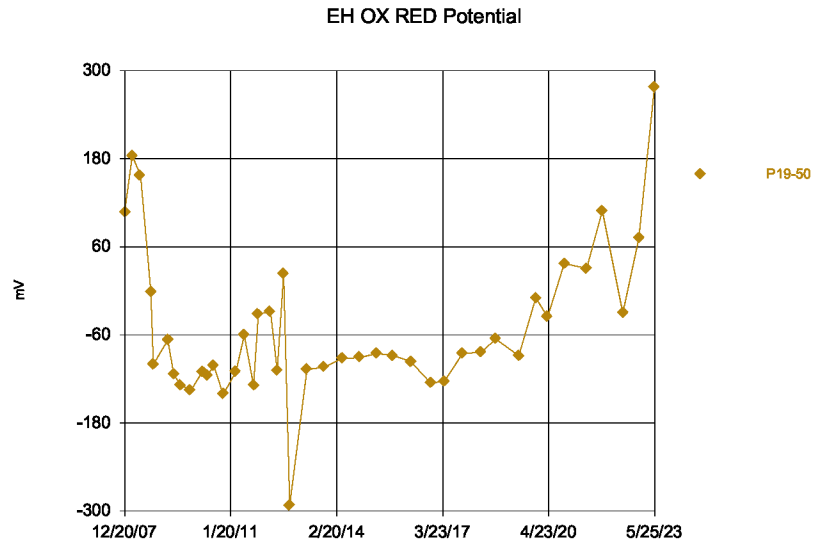

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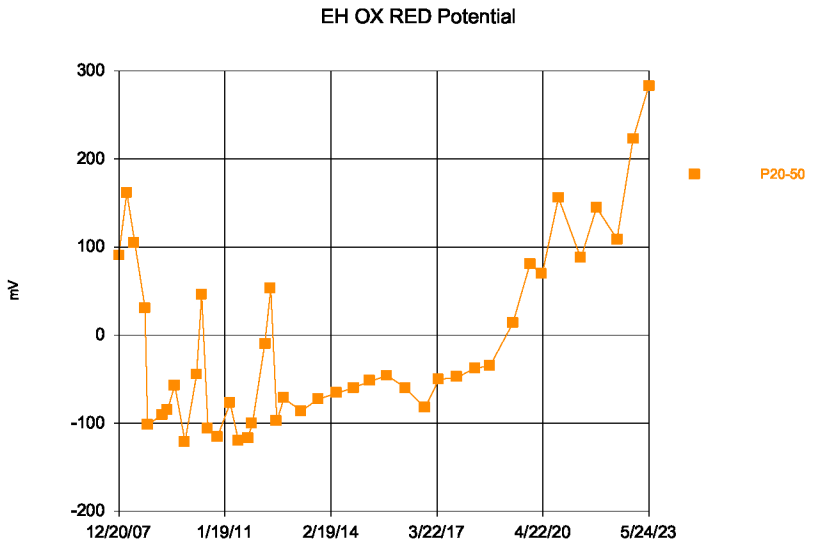

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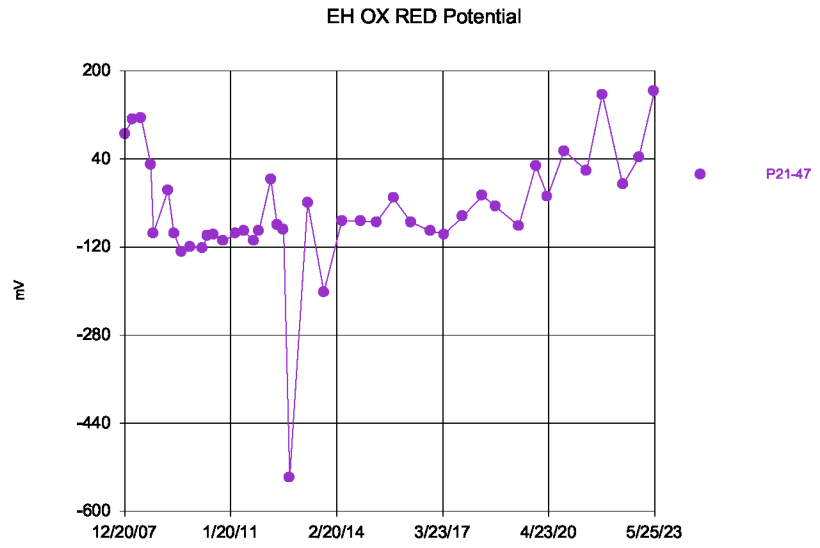

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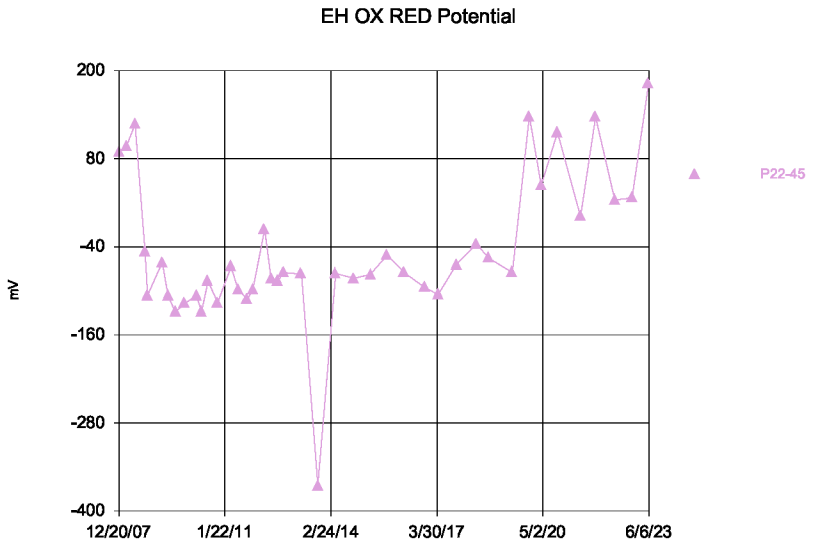

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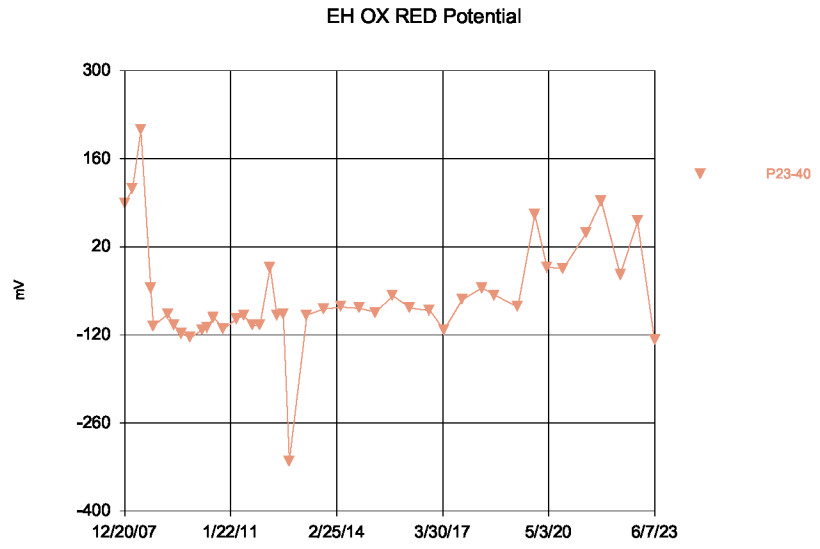

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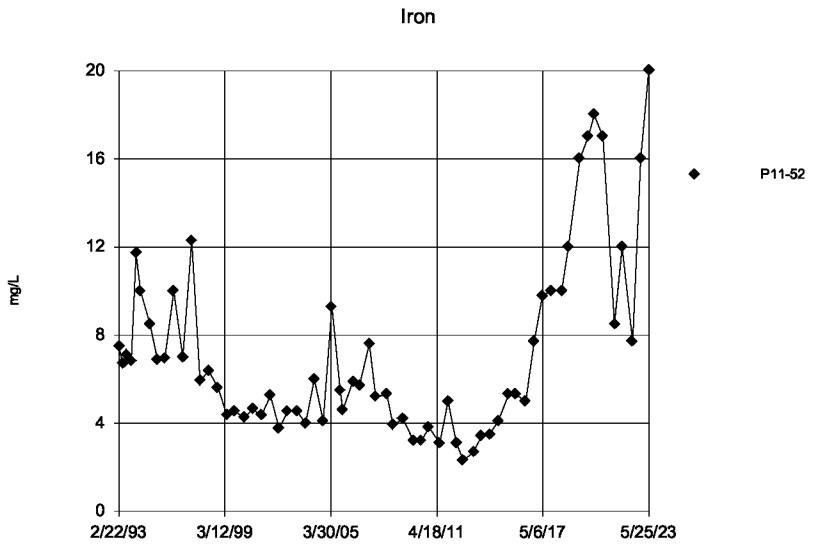

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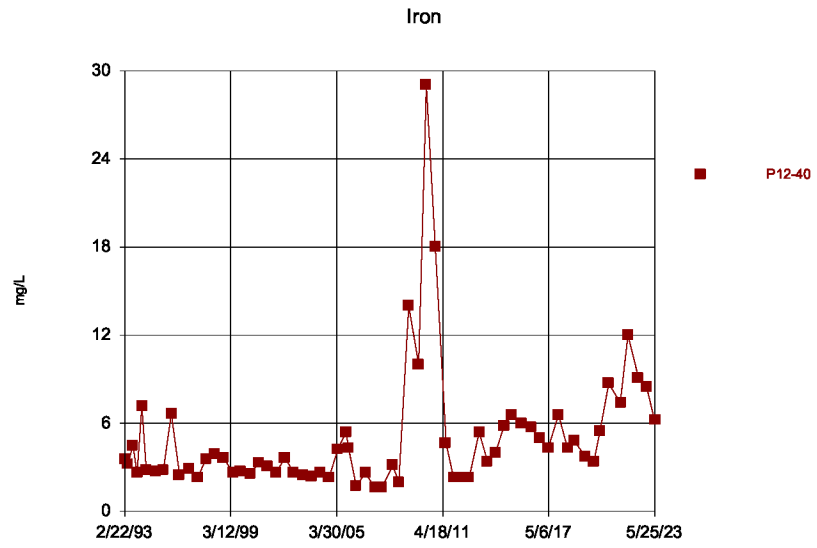

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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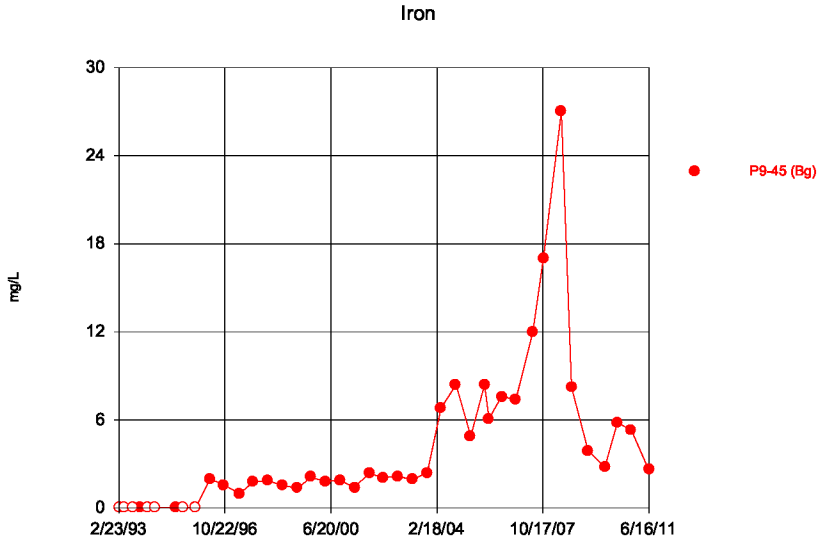

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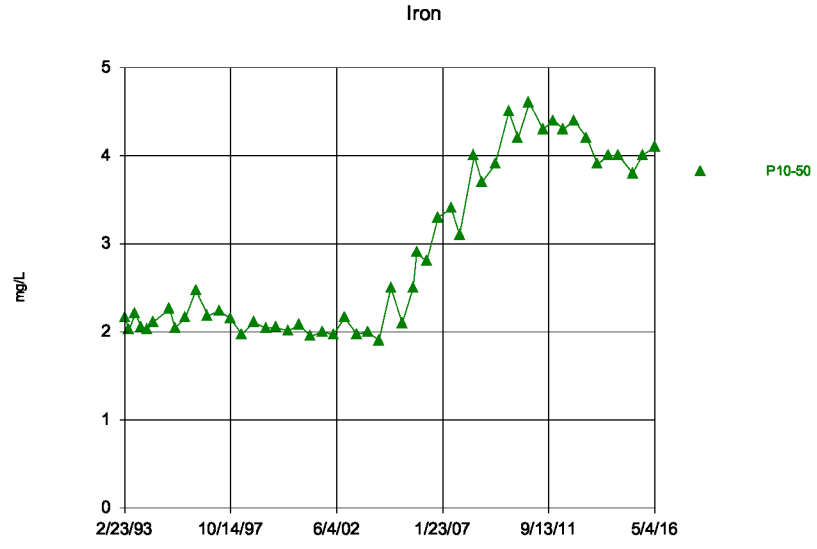

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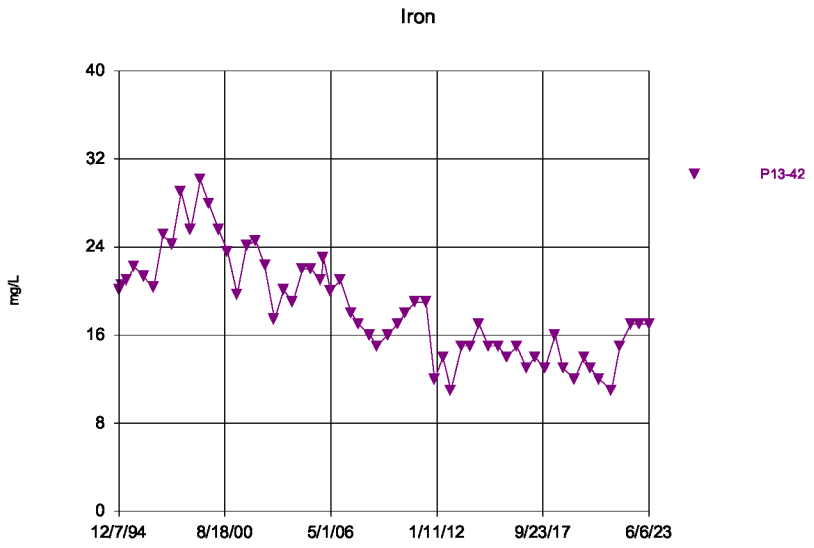

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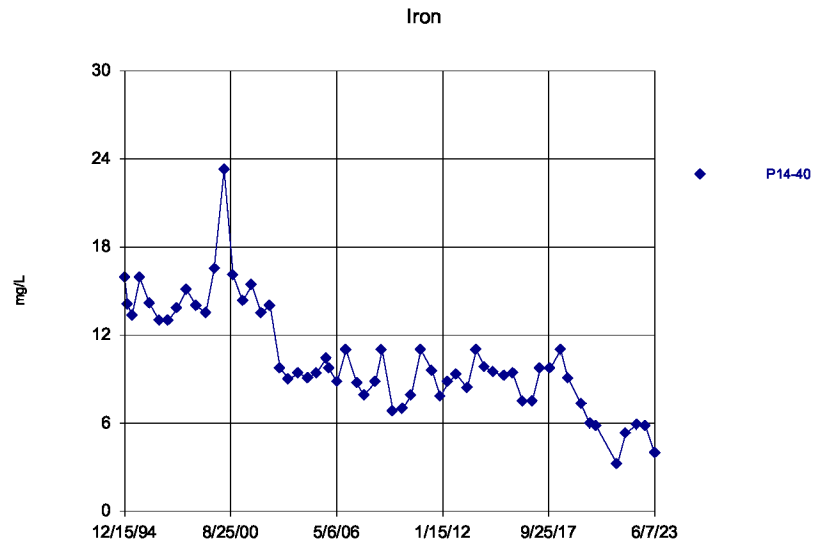

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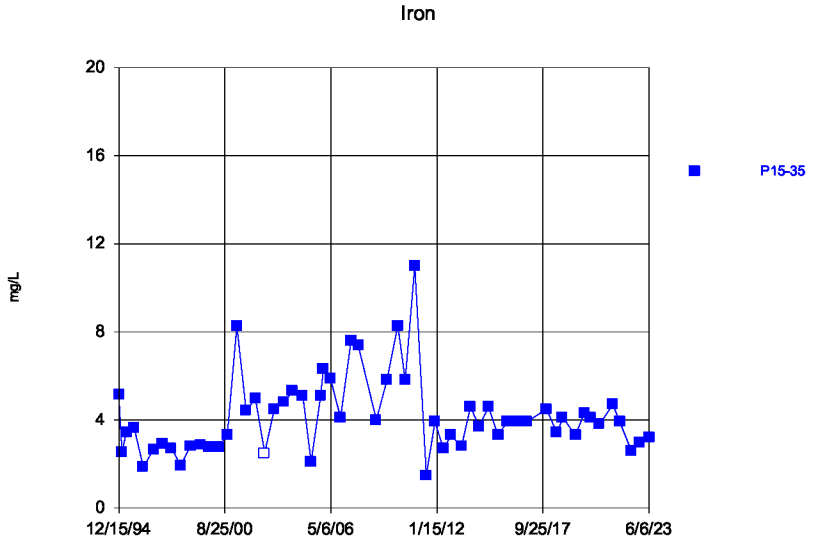

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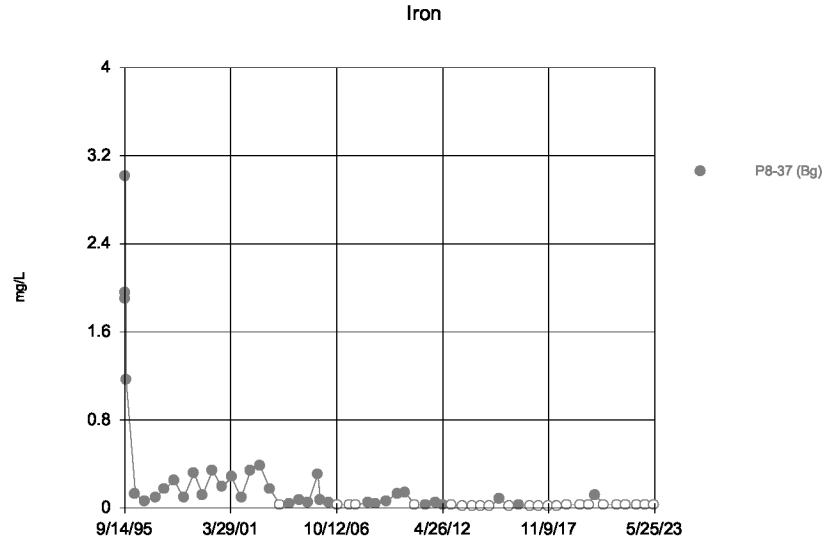

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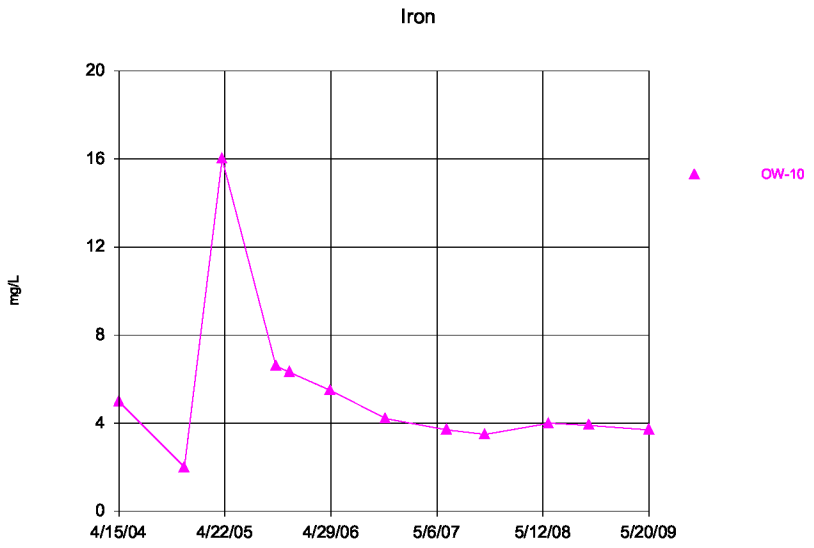

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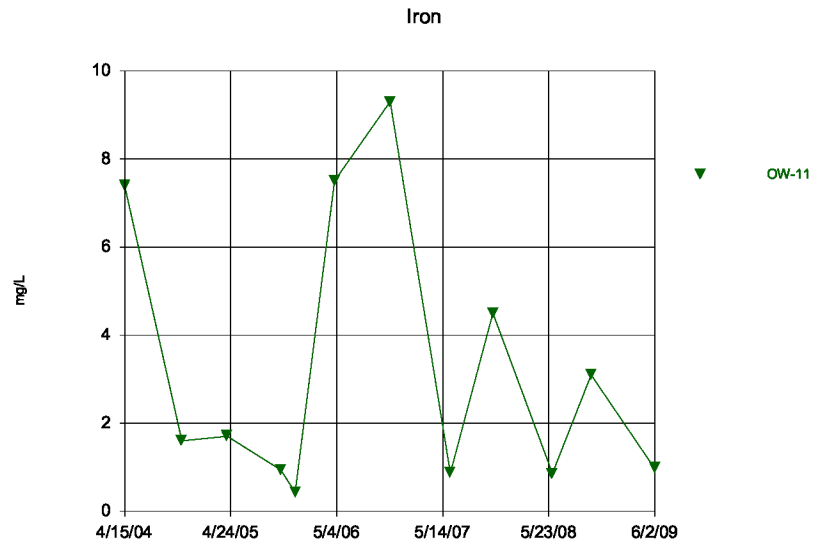

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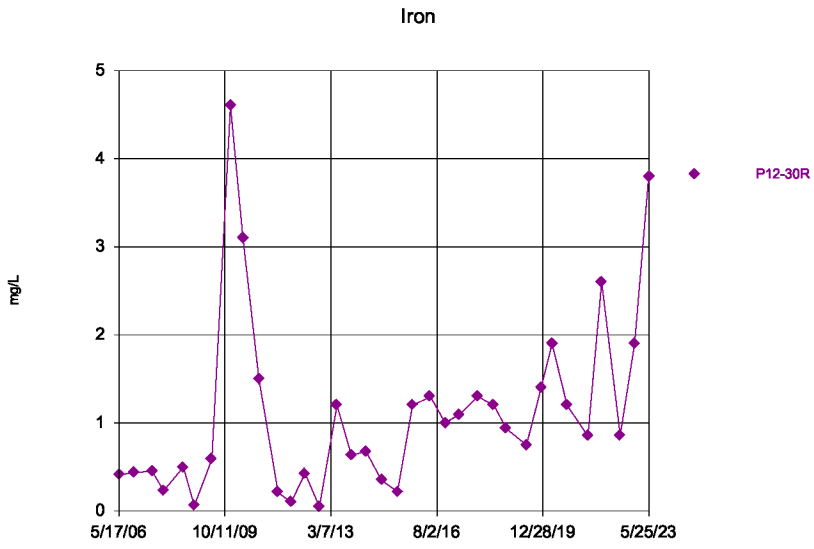

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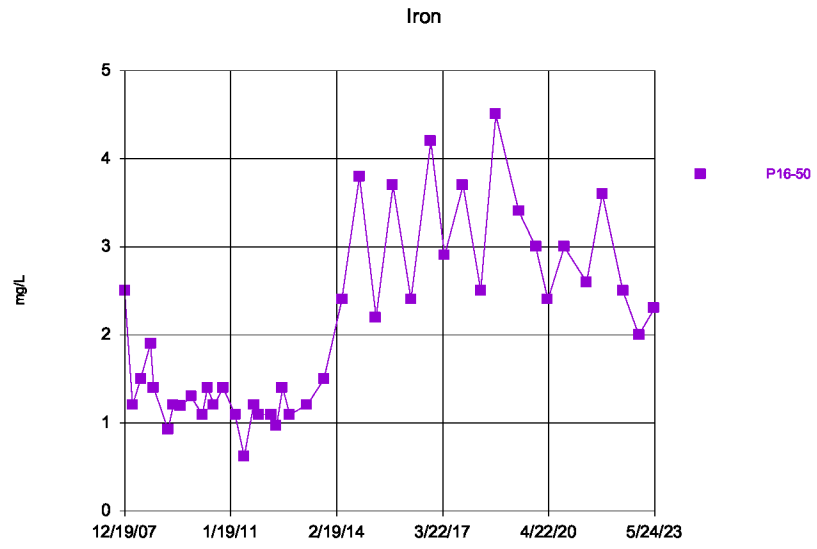

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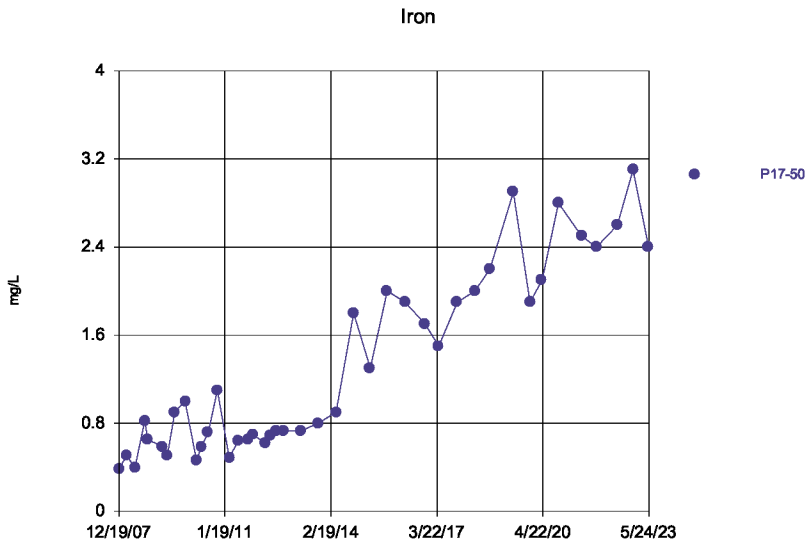

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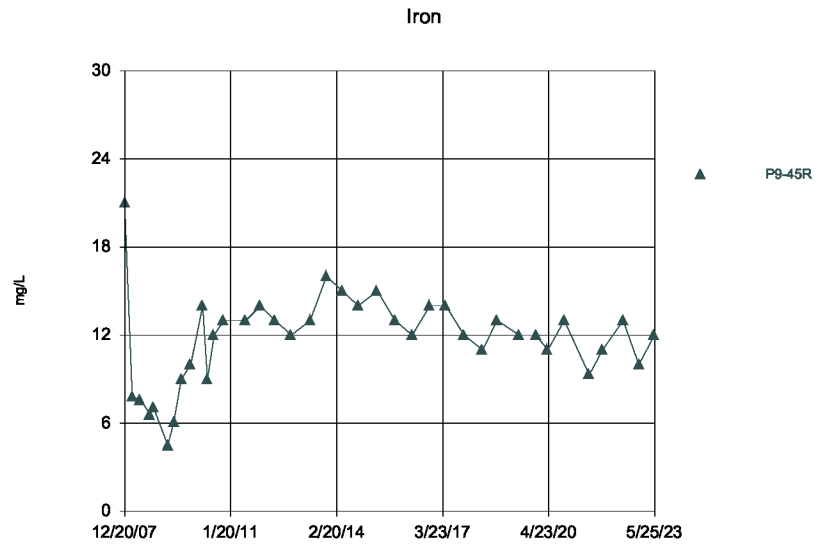

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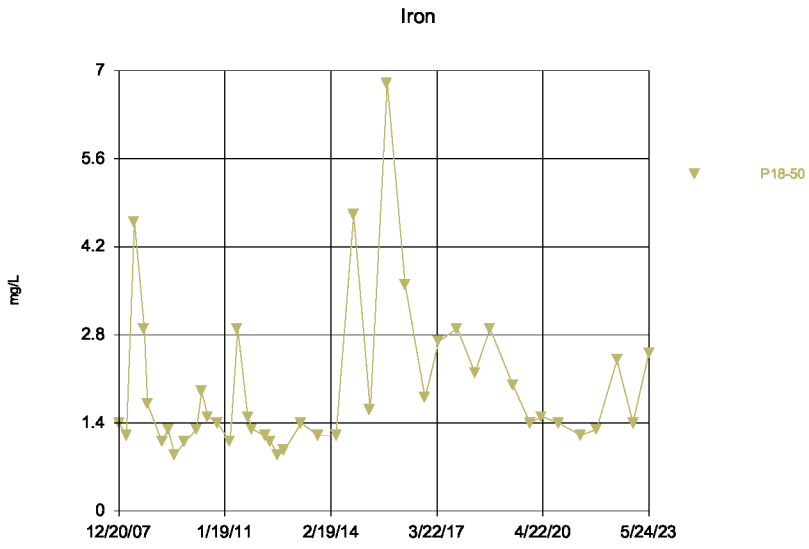

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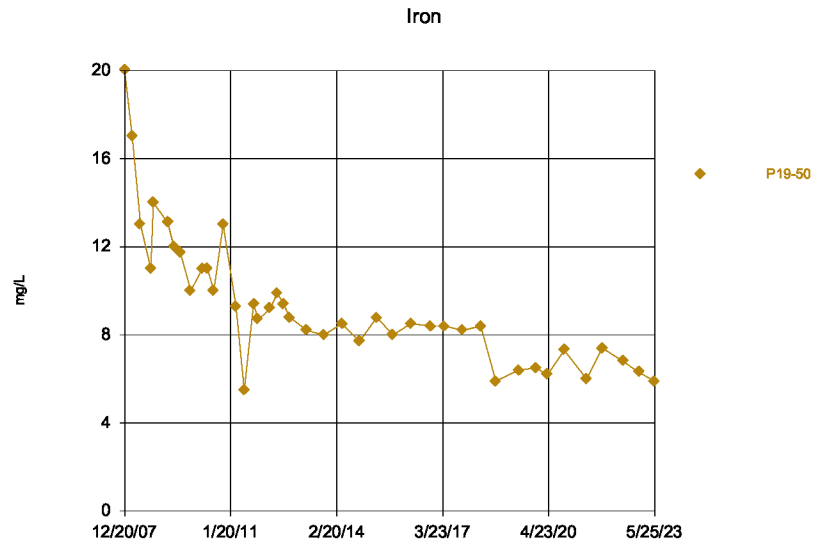

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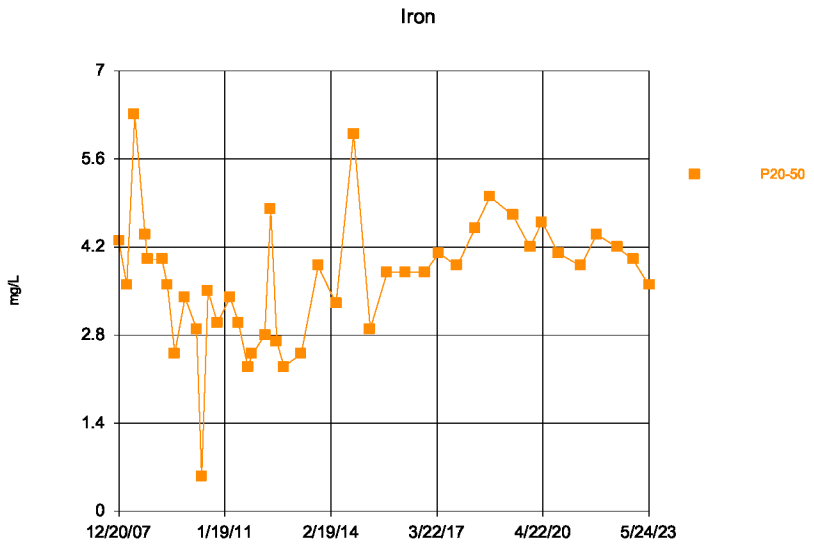

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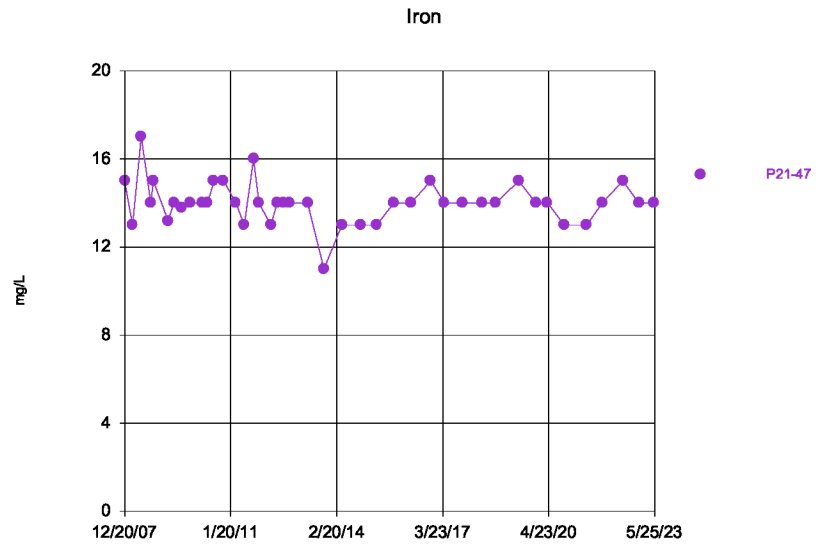

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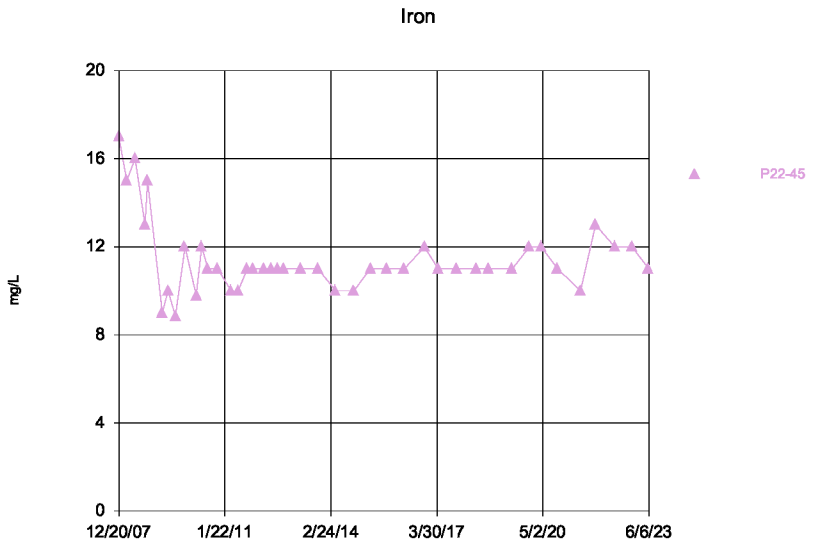

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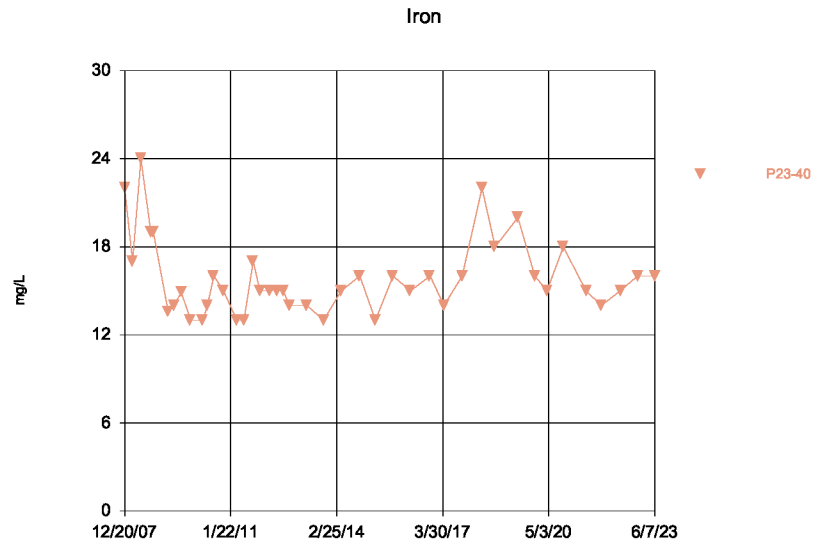

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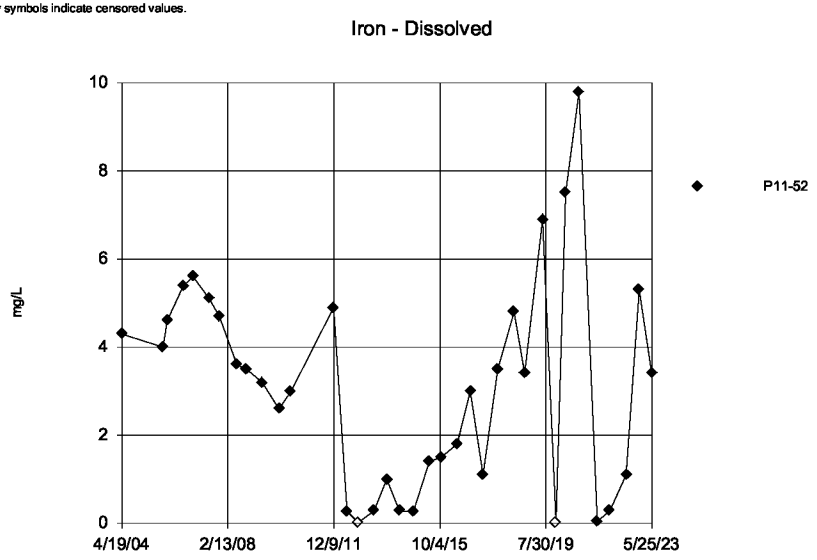

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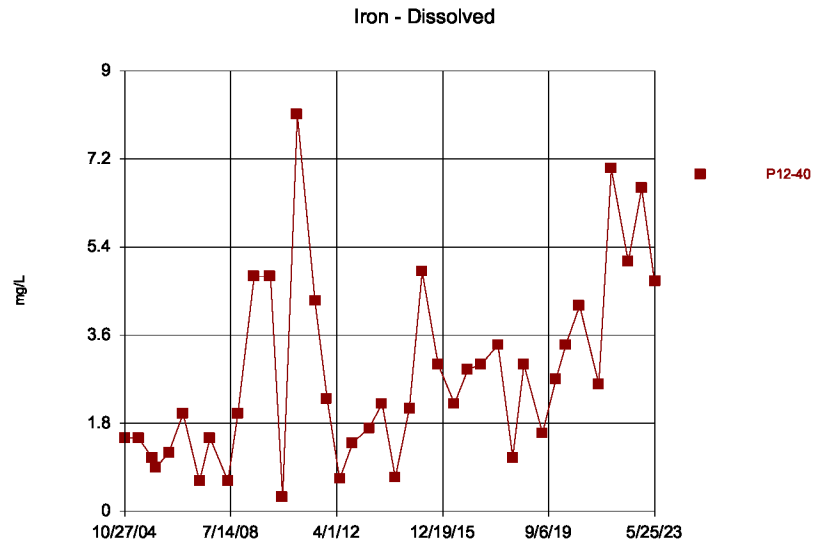

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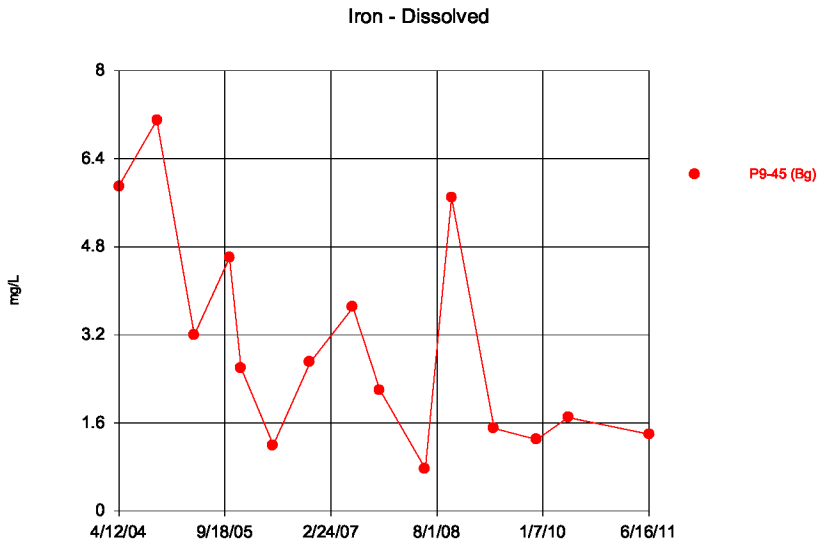

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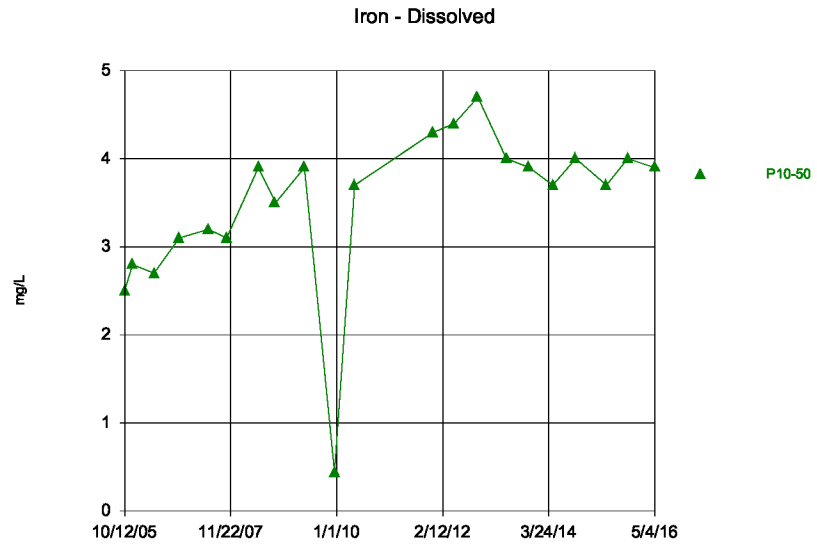

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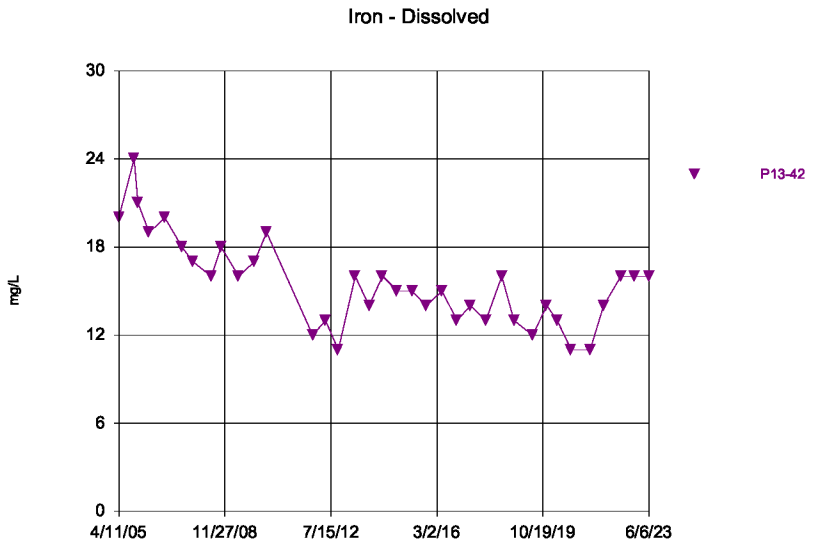

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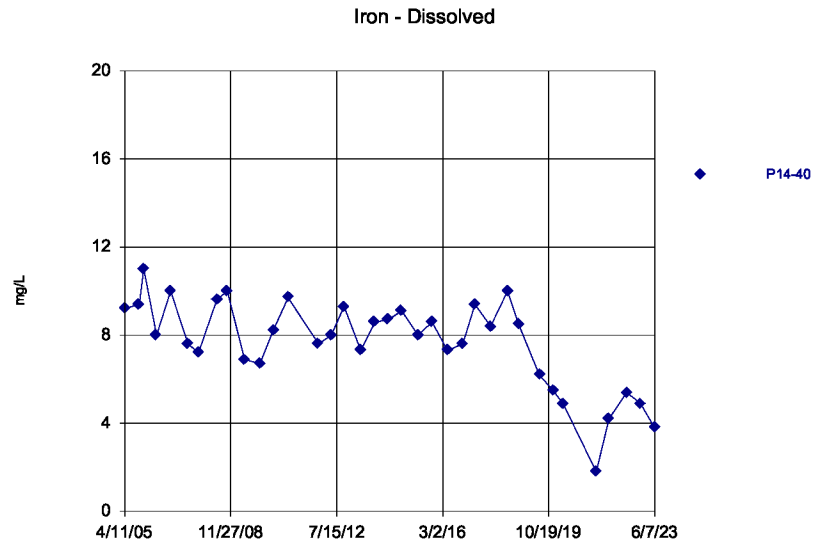

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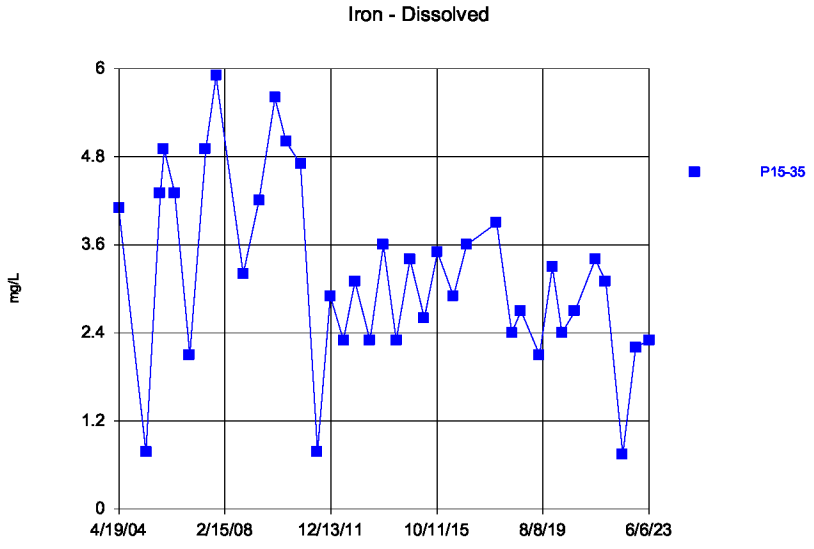

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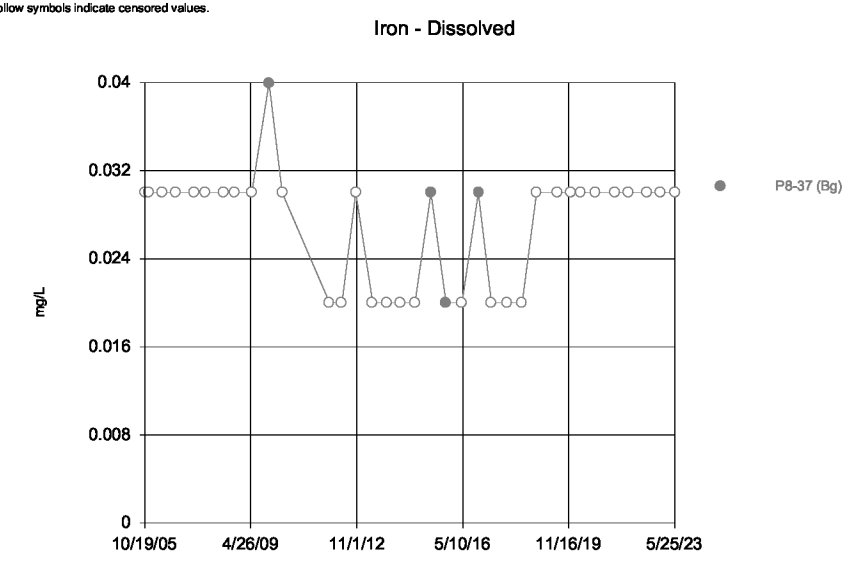

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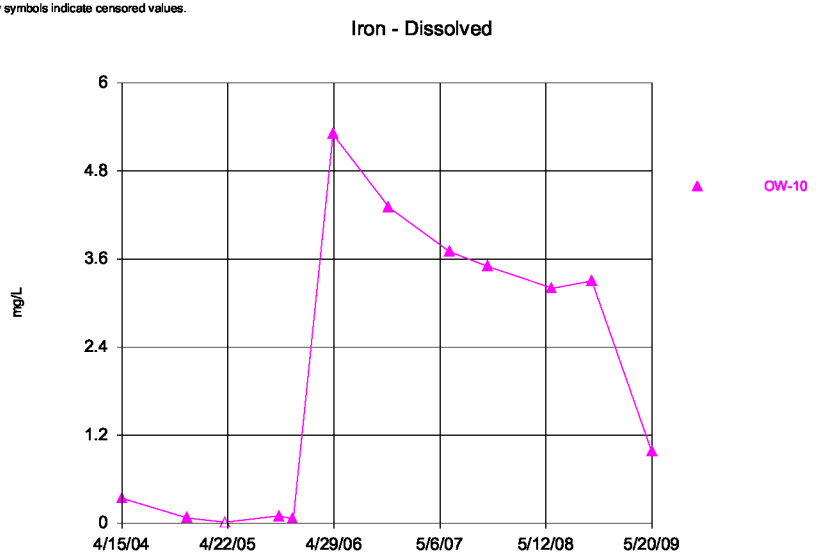

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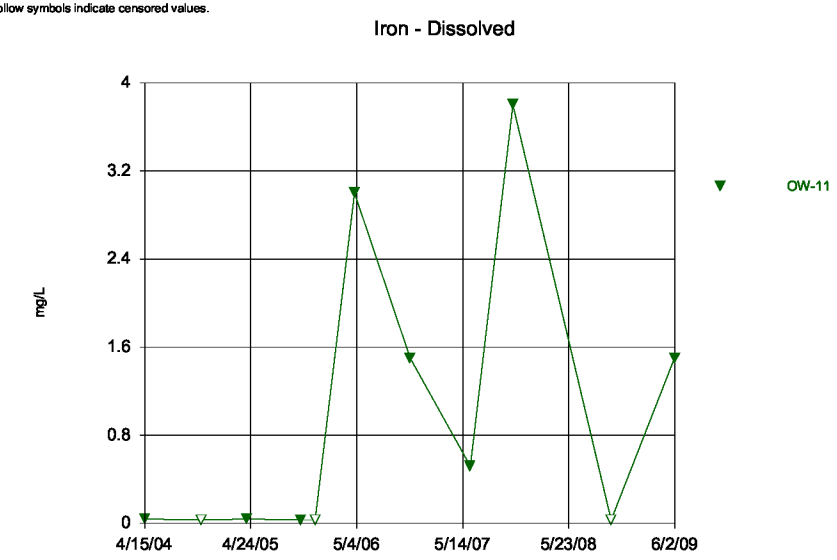

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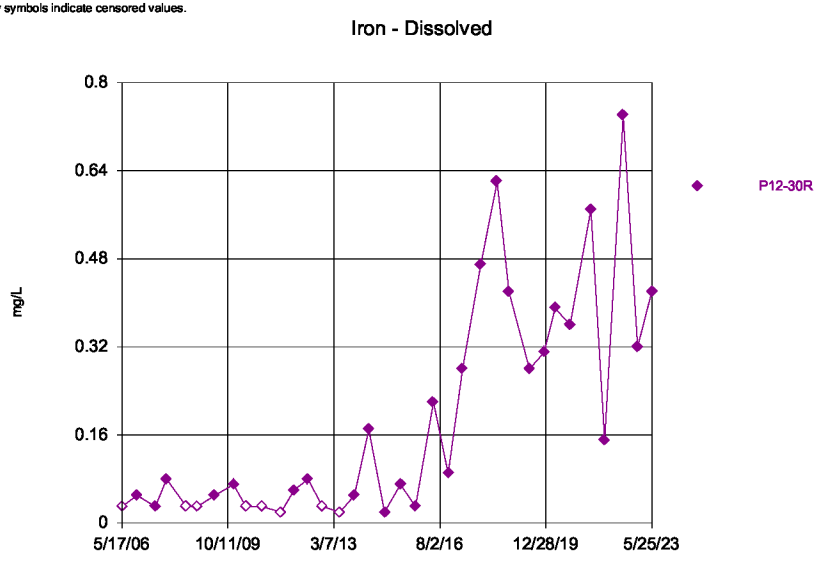

Time Series Analysis Run 9/12/2023 2:53 PM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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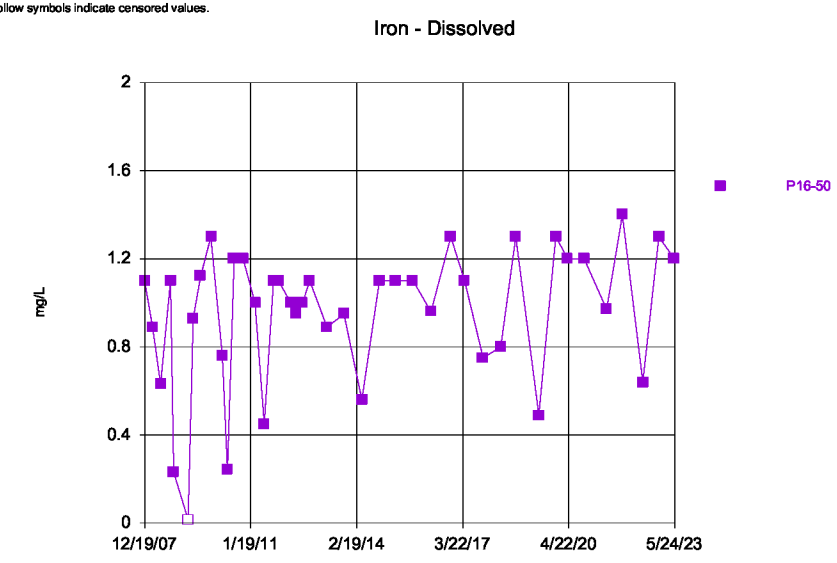

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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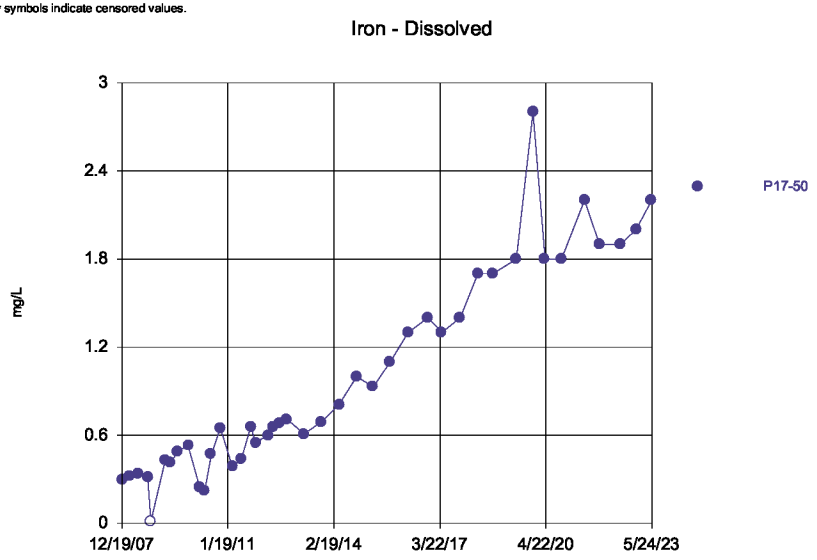

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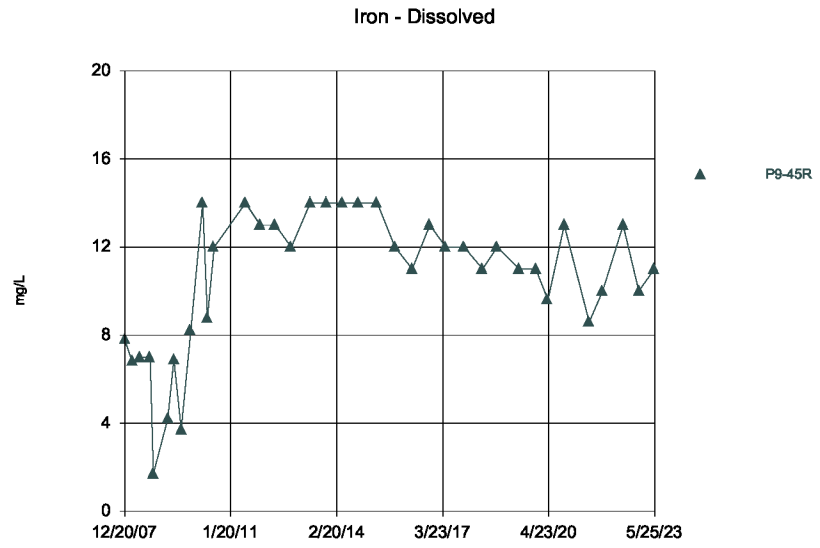

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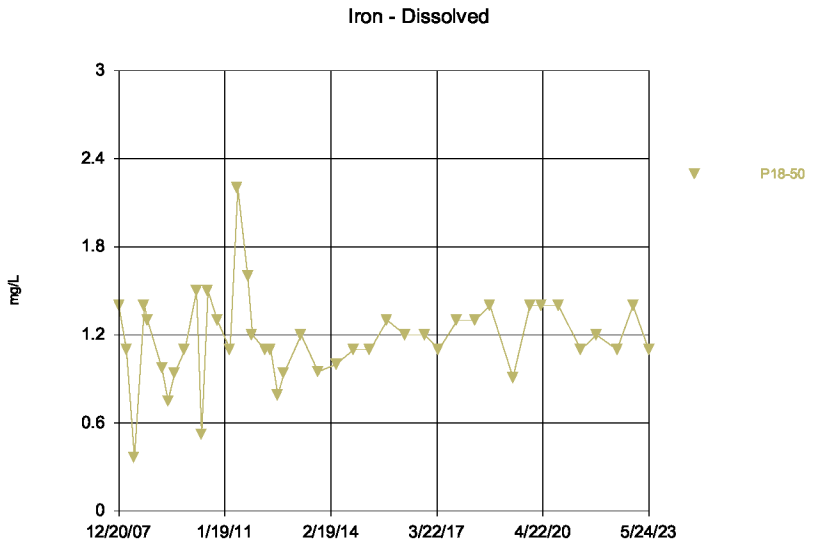

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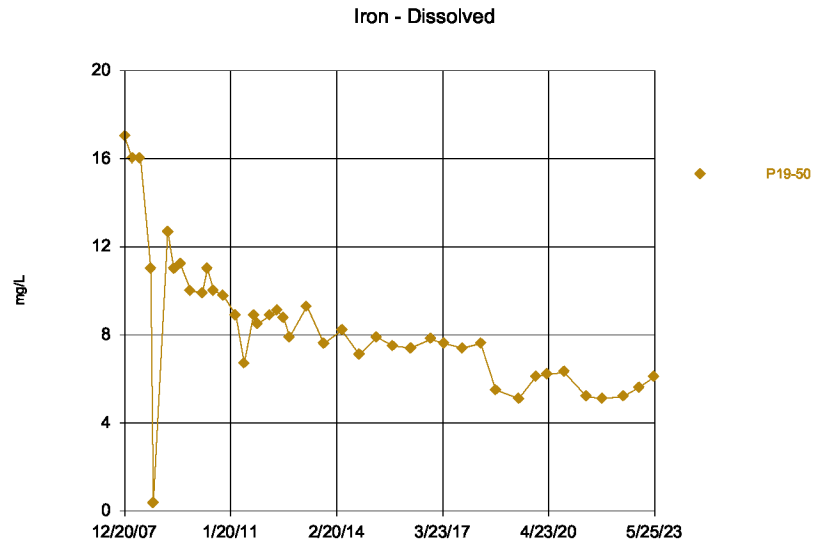

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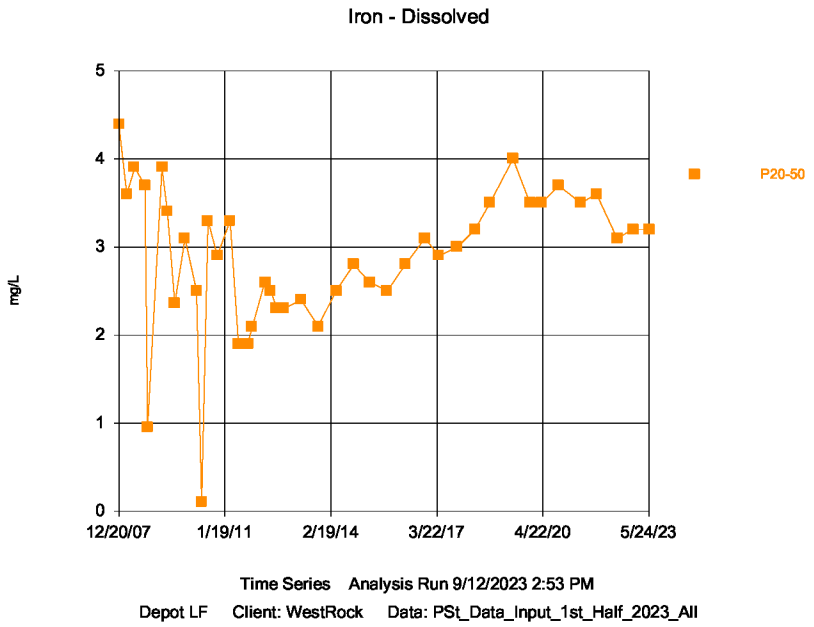

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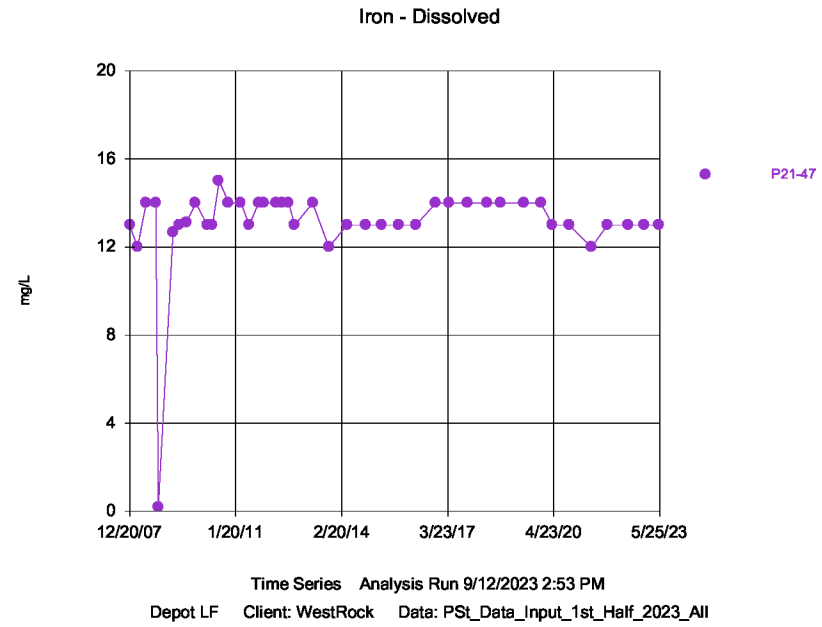

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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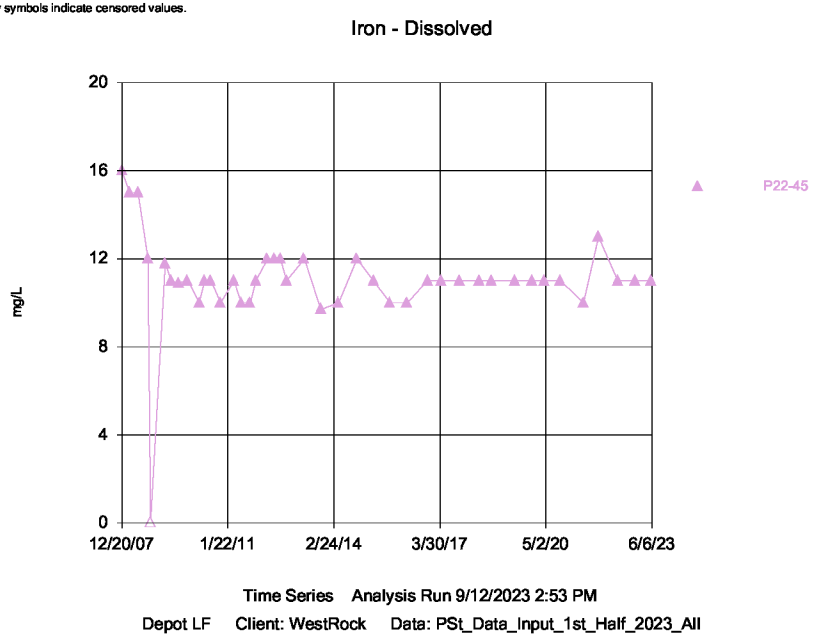

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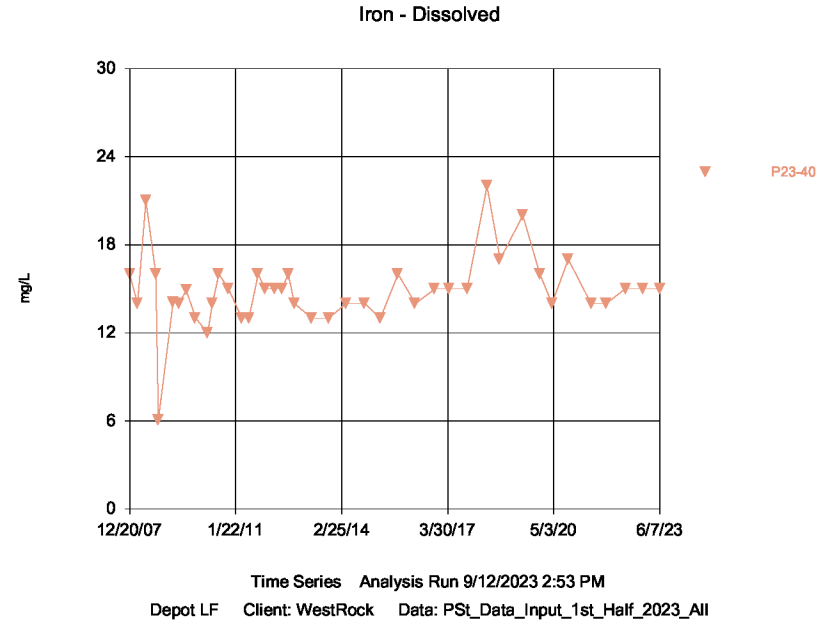

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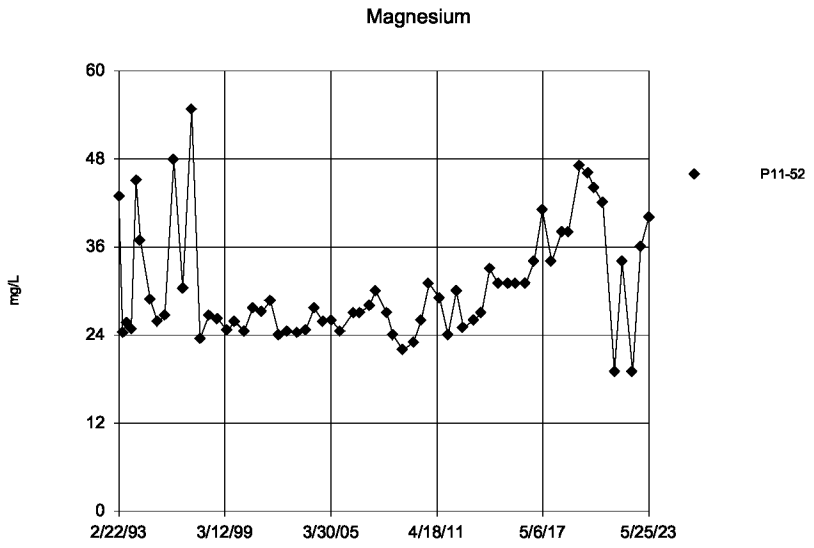

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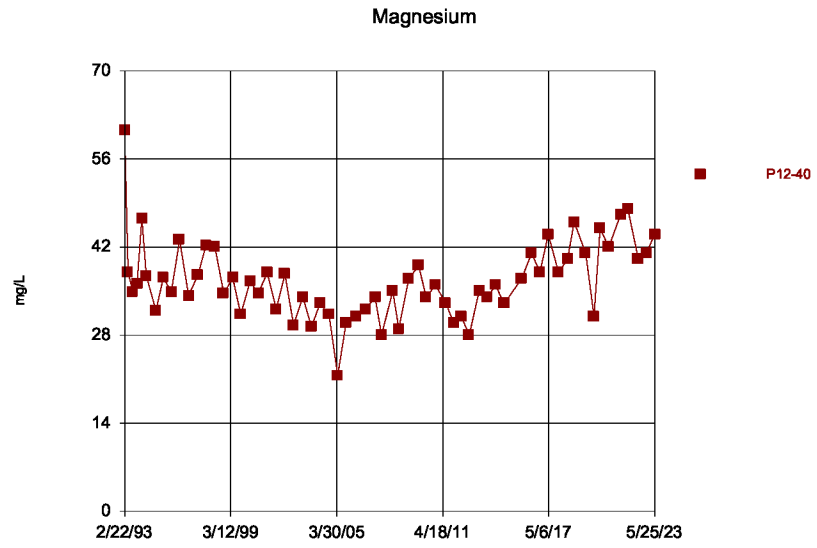

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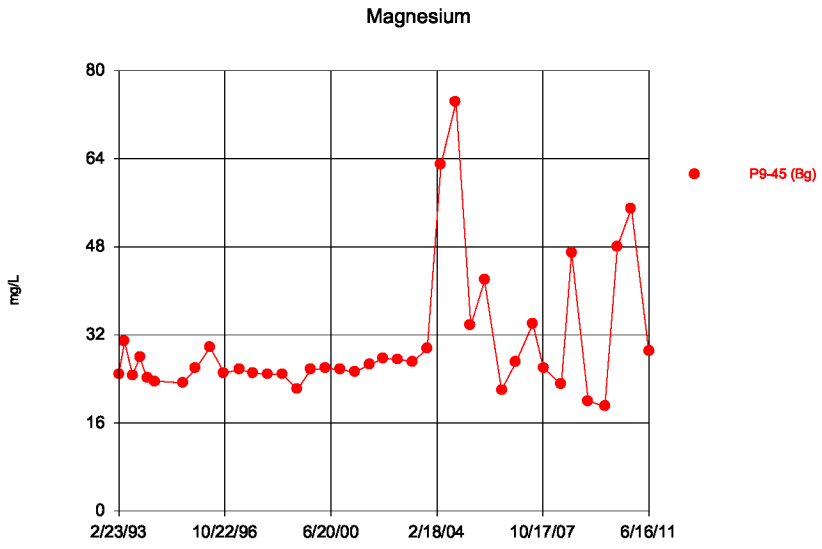

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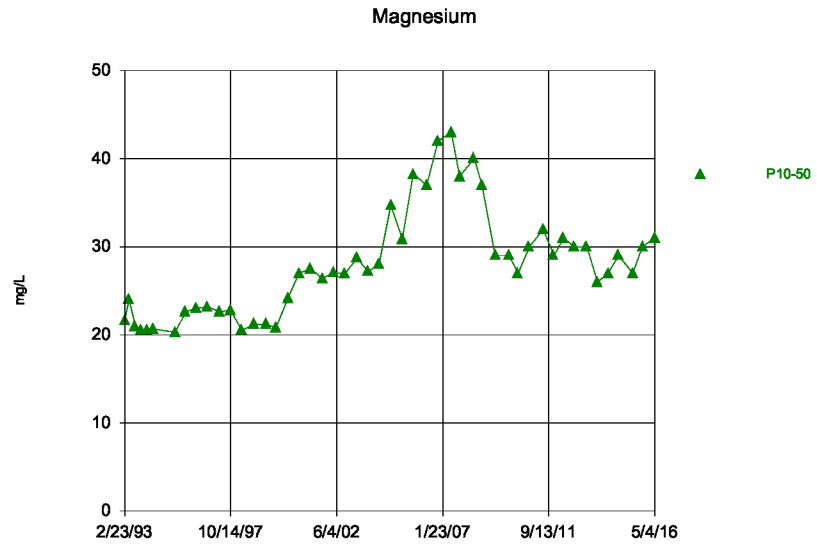

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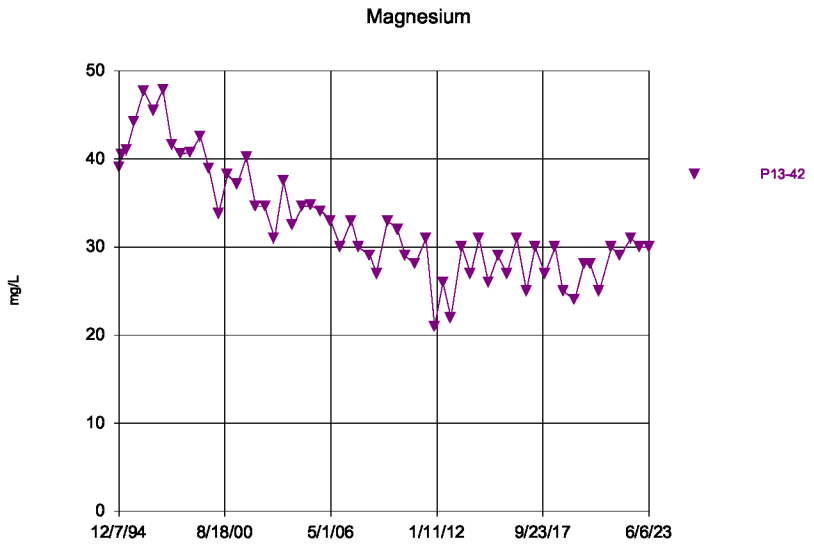

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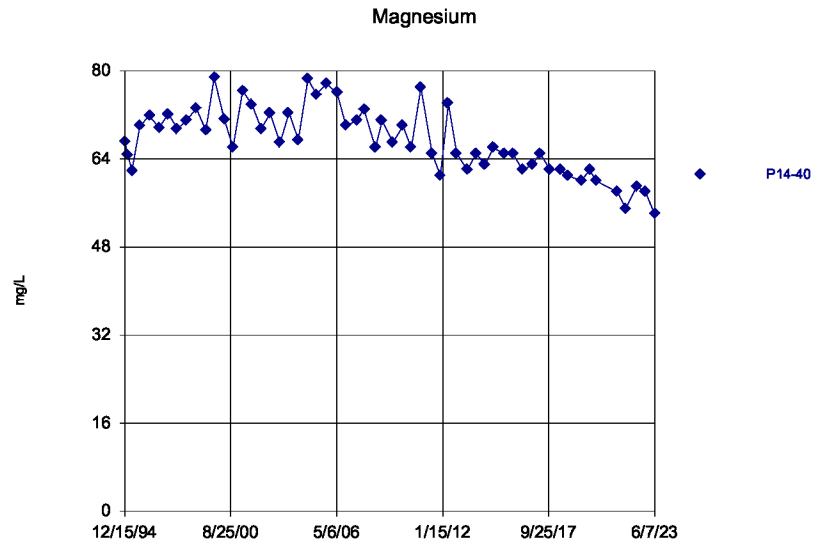

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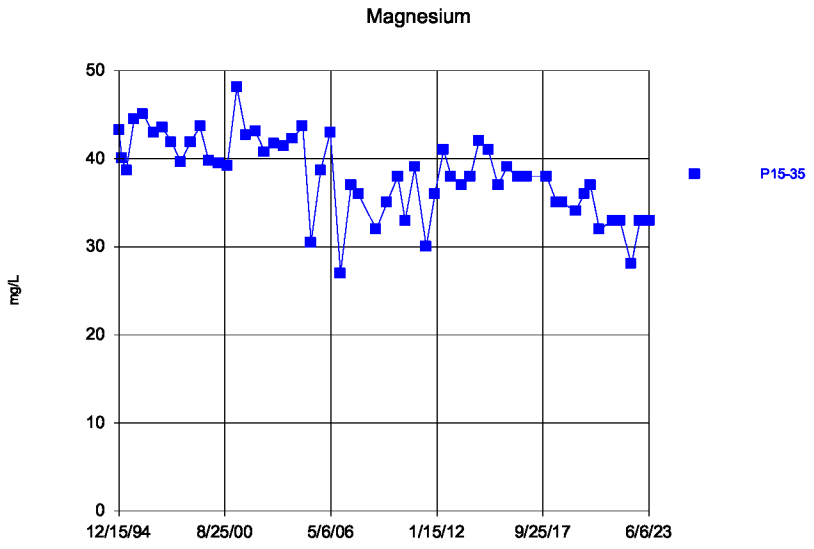

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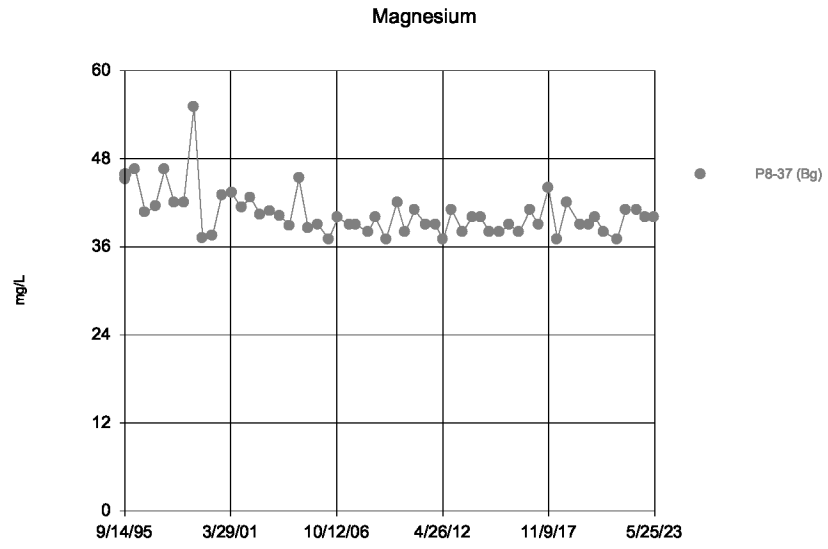

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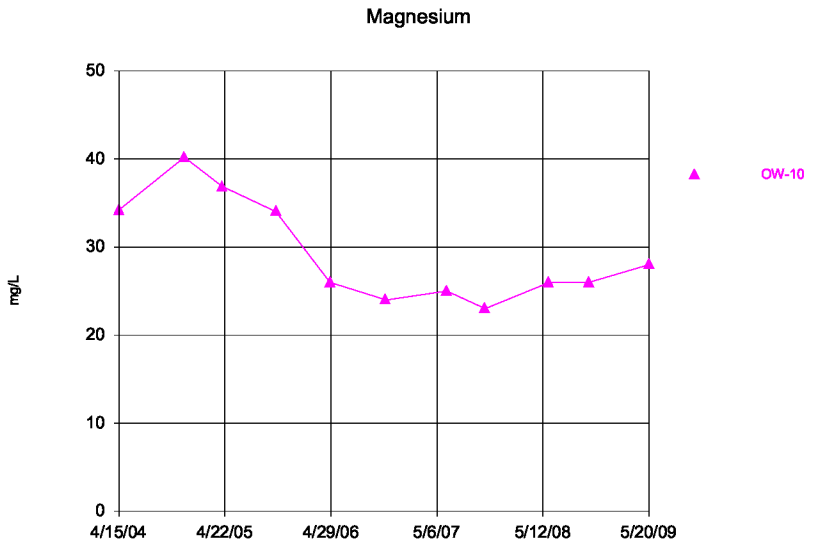

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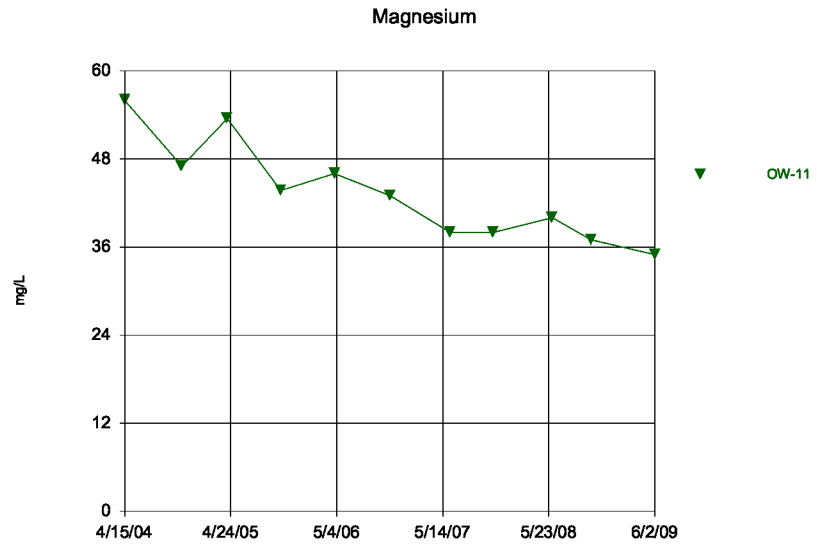

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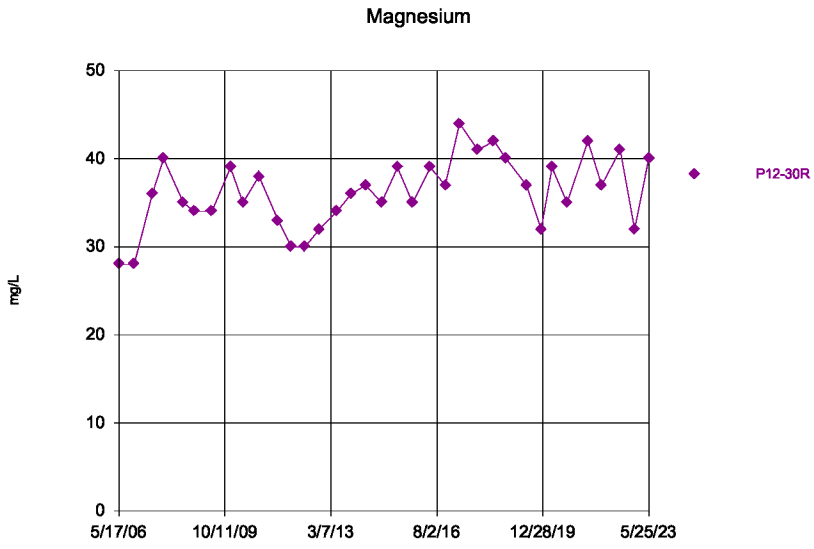

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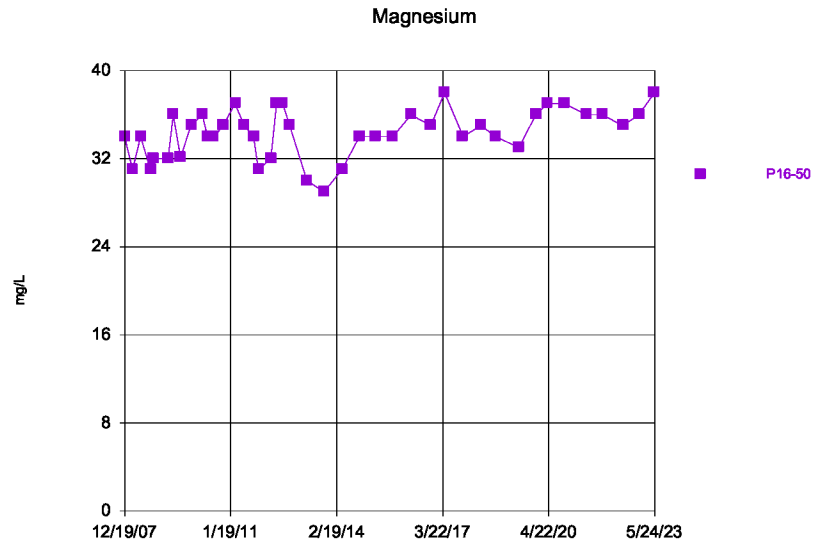

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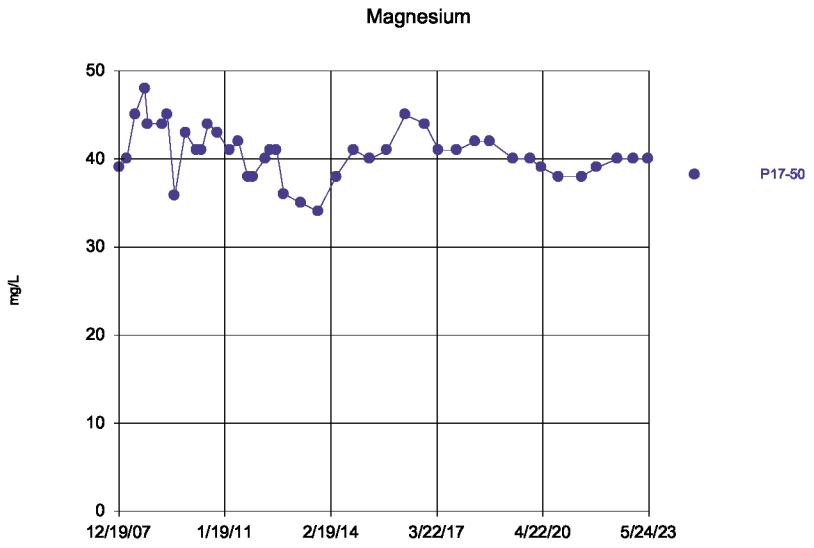

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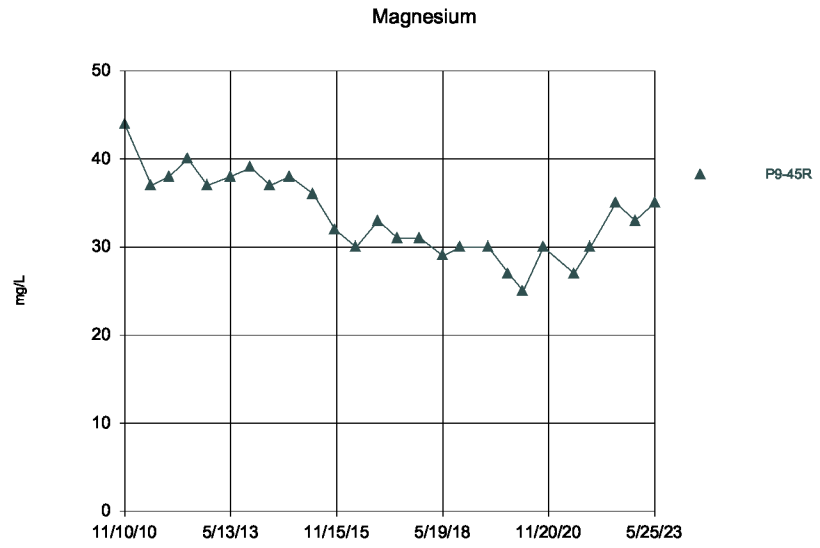

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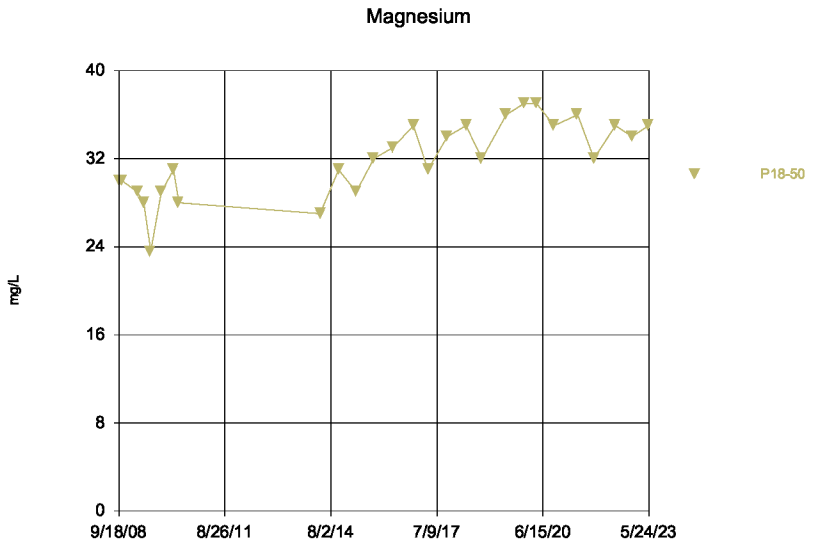

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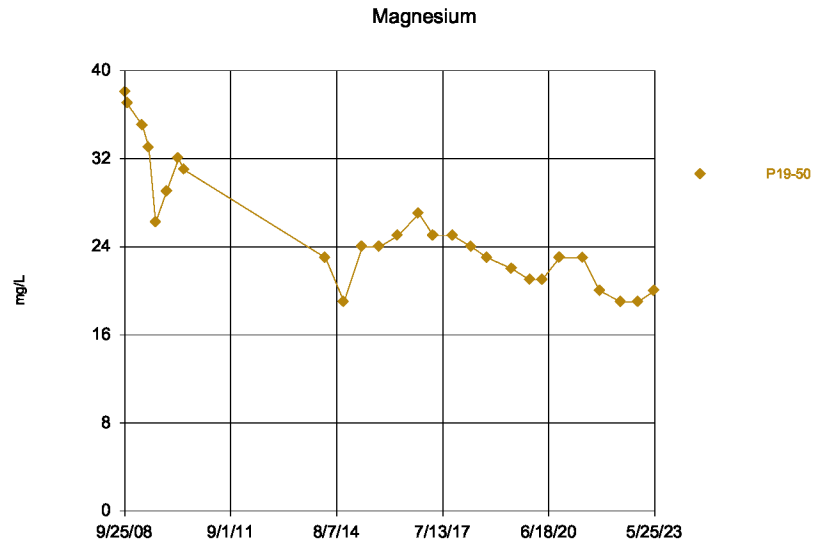

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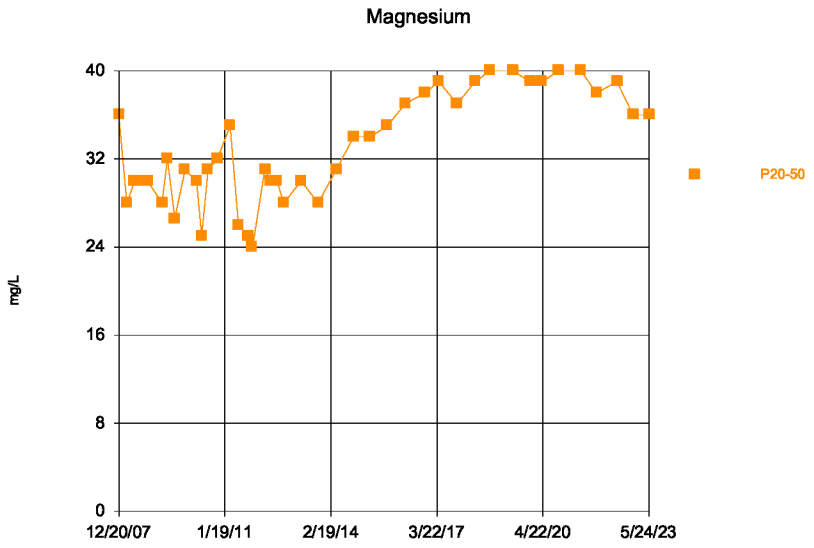

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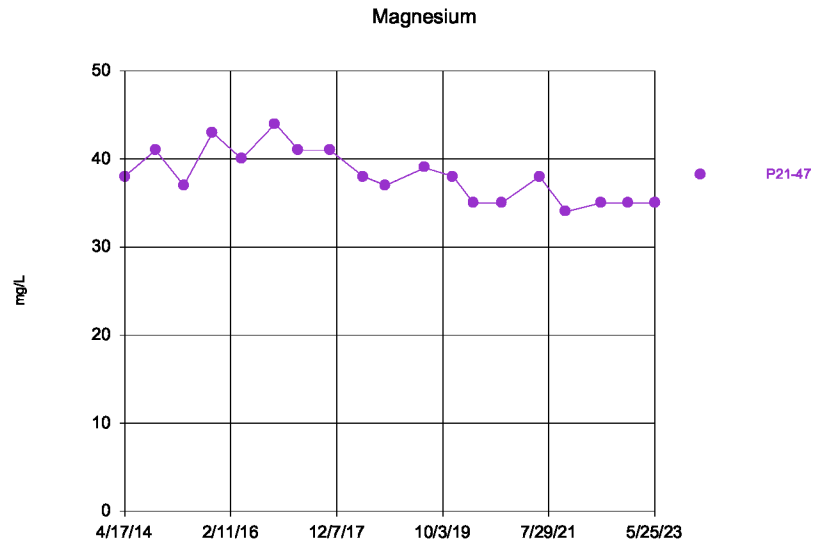

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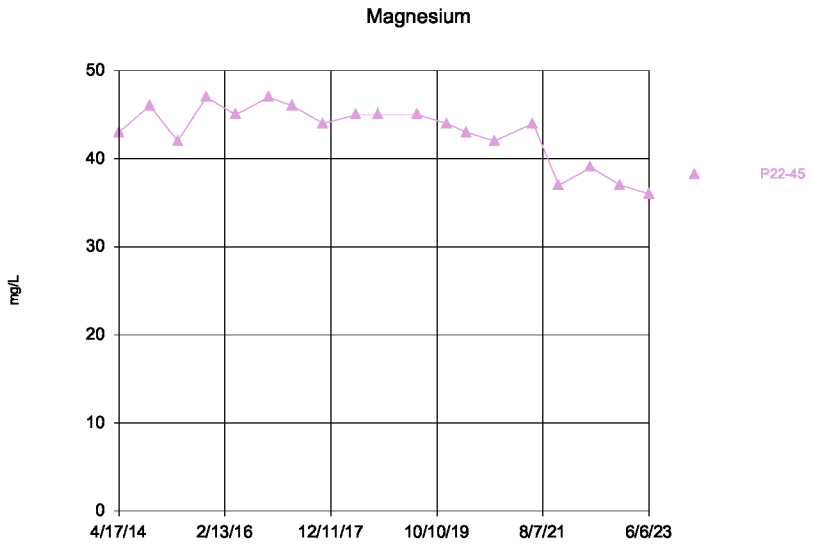

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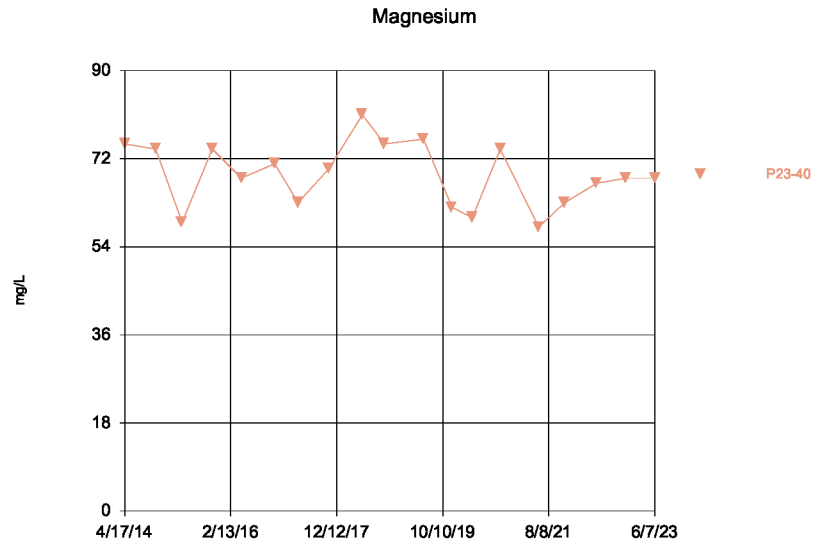

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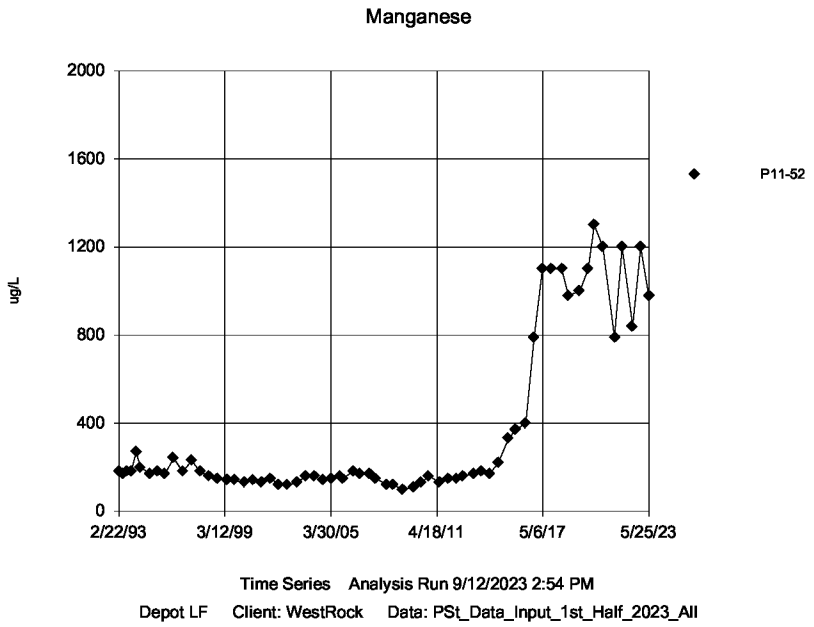

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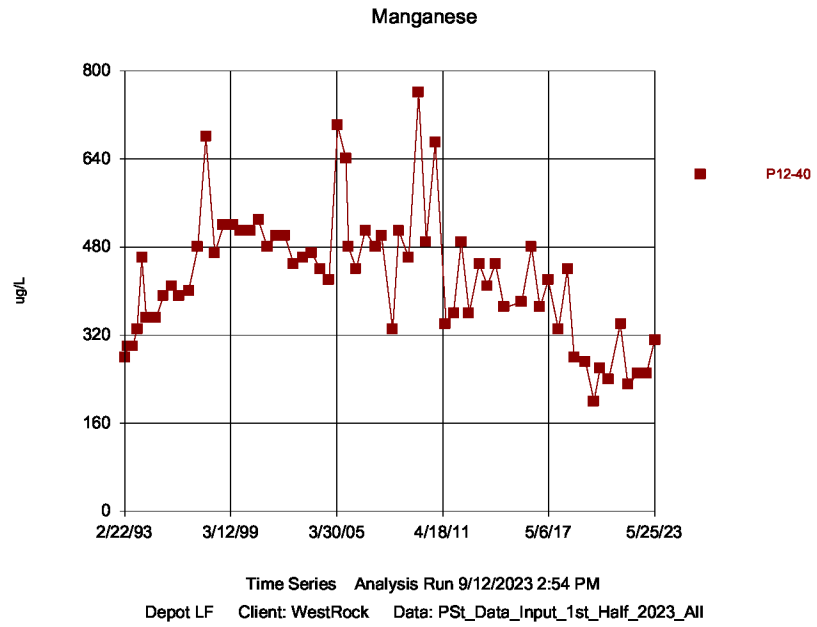

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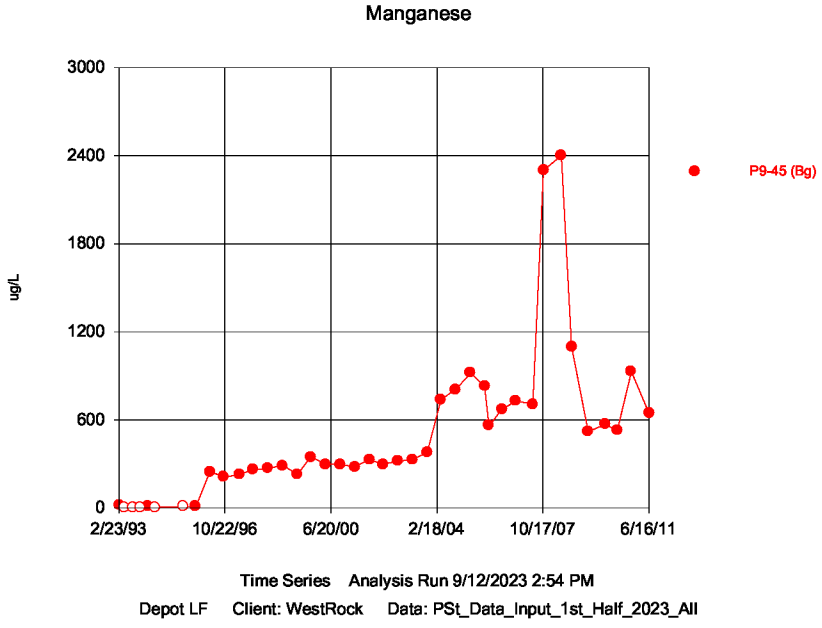

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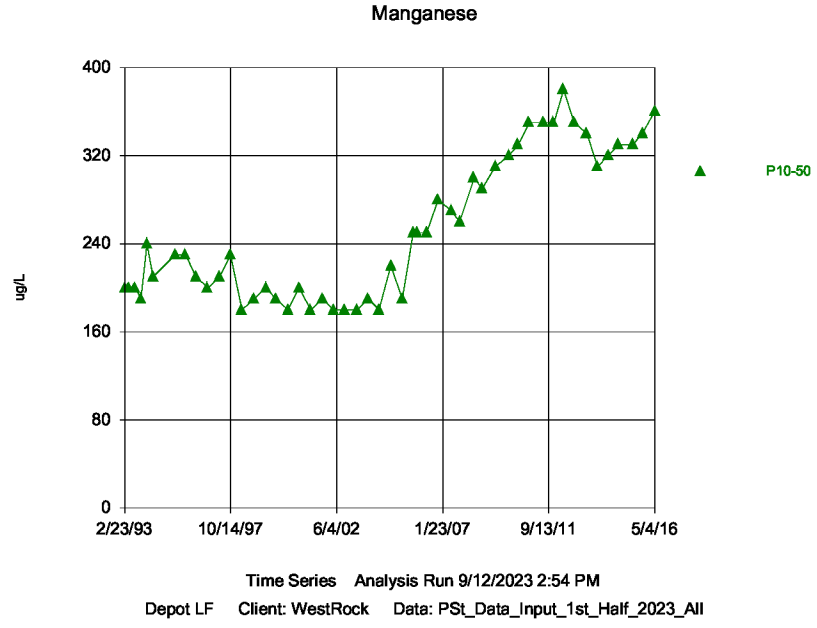

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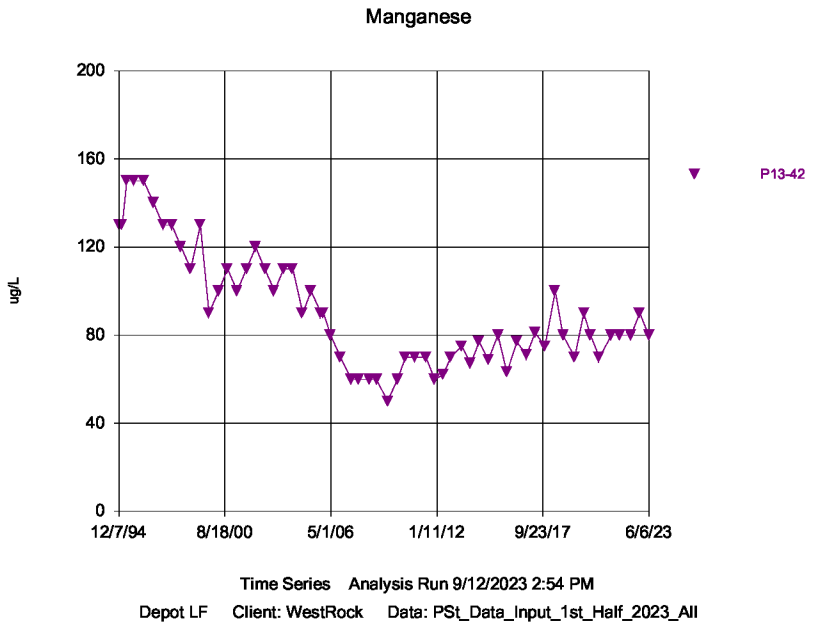

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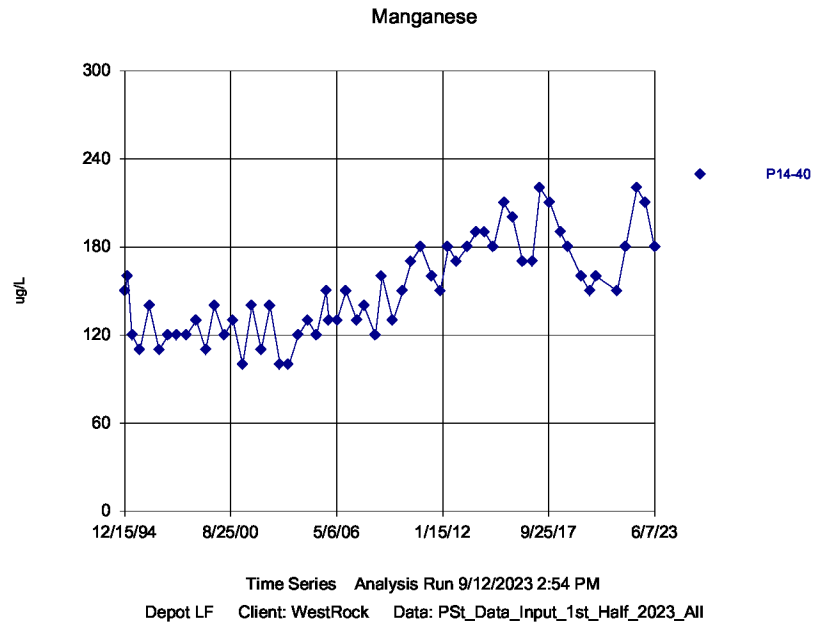

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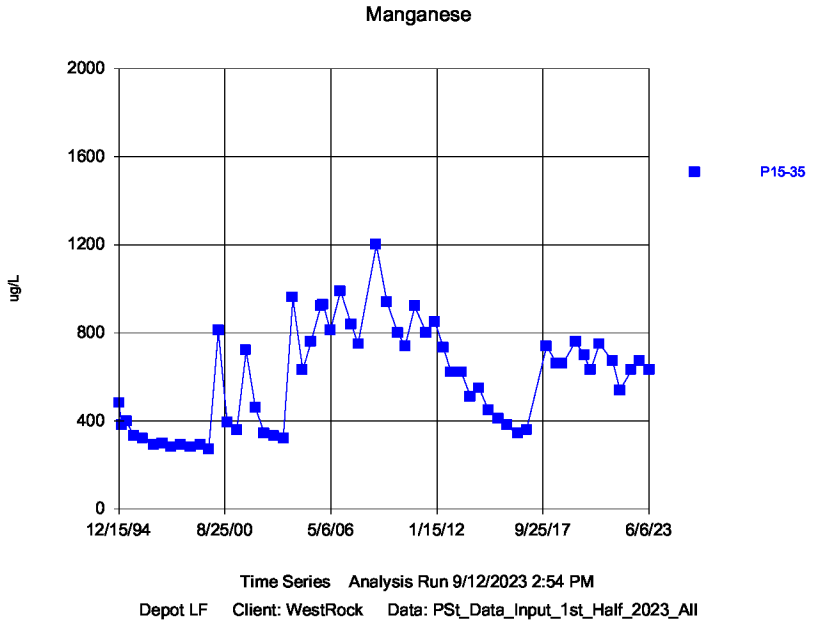

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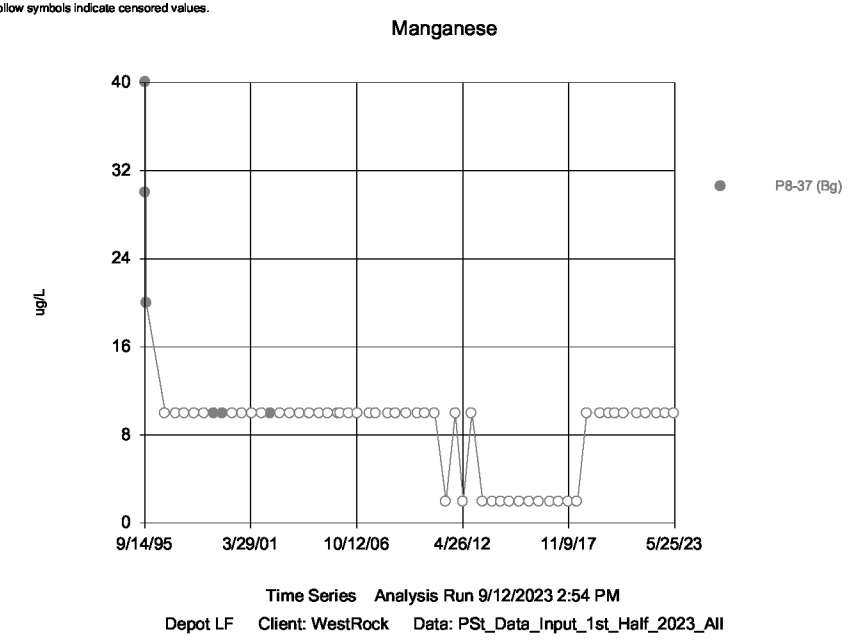

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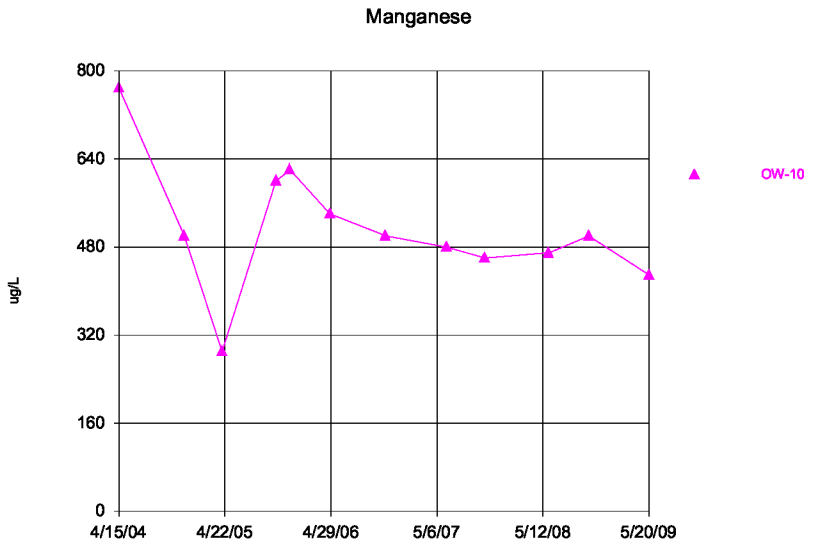

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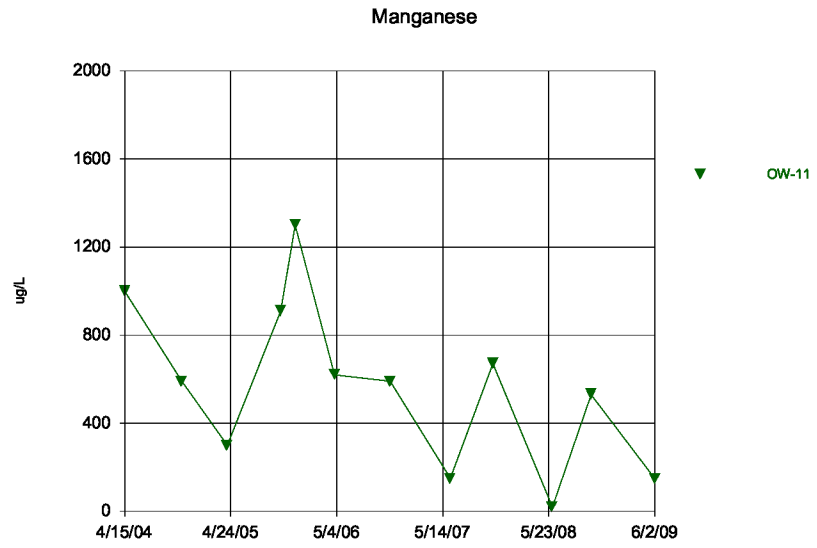

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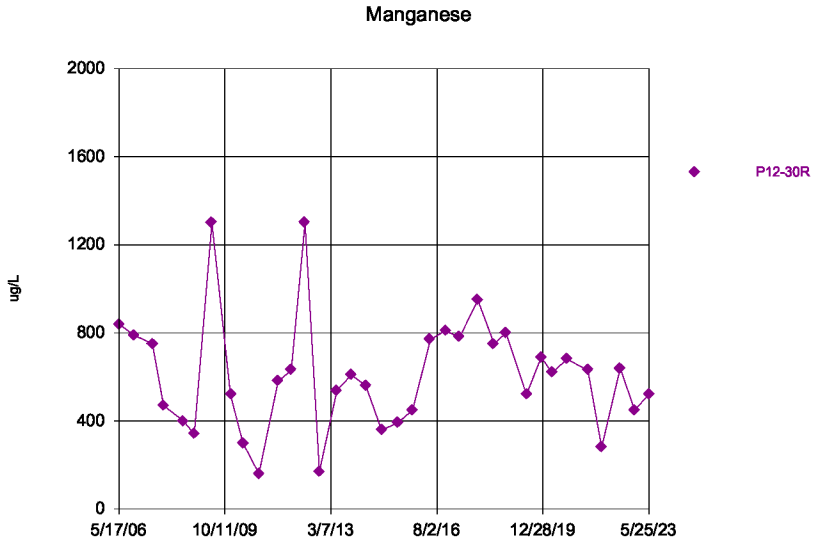

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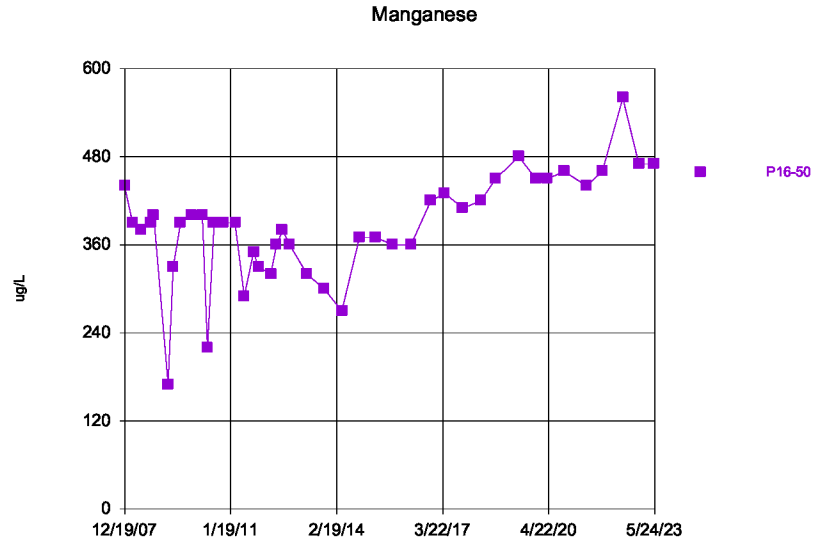

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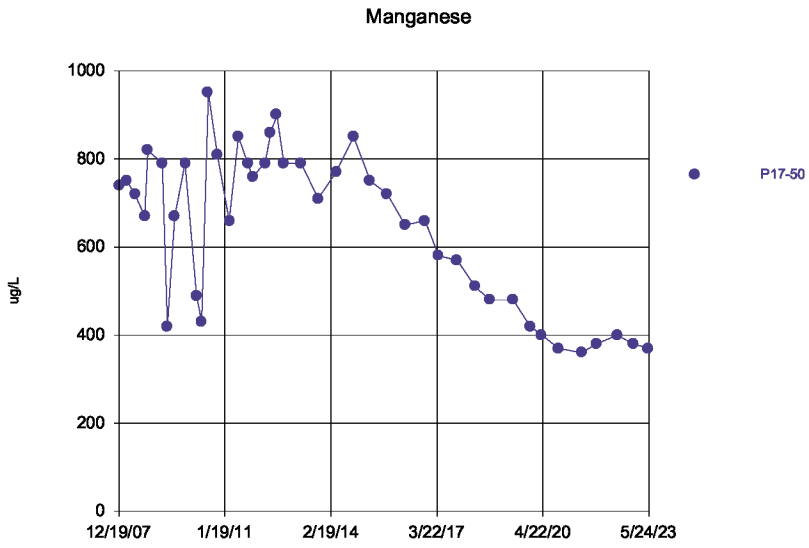

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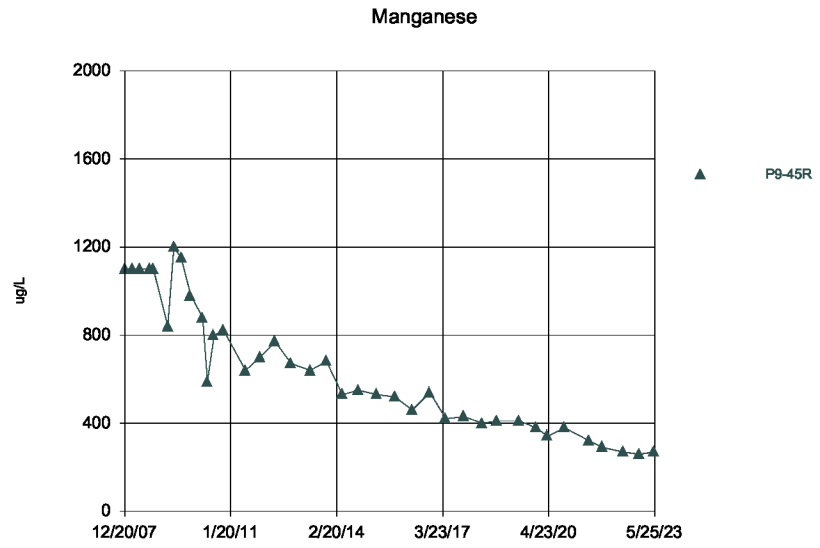

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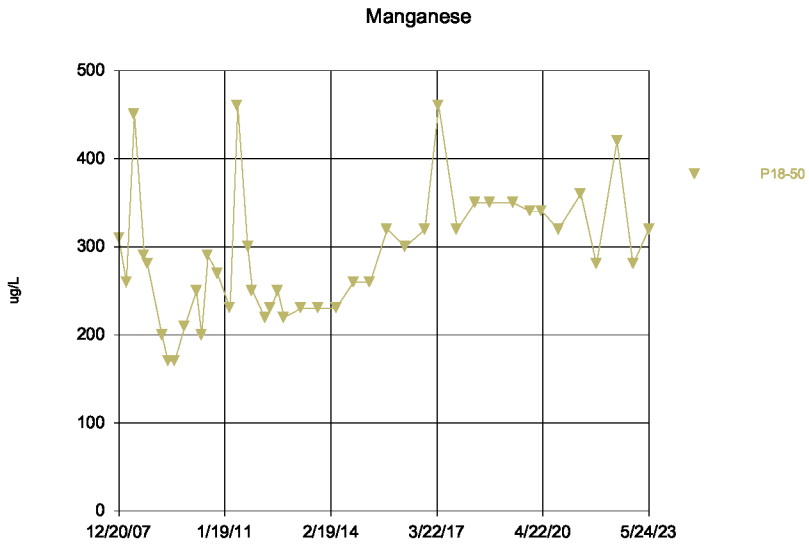
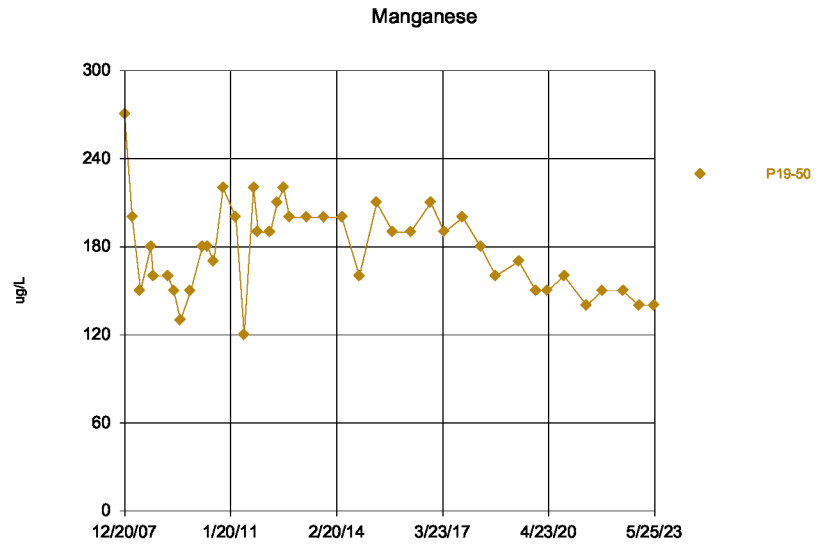
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Time Series Analysis Run 9/12/2023 2:54 PM

Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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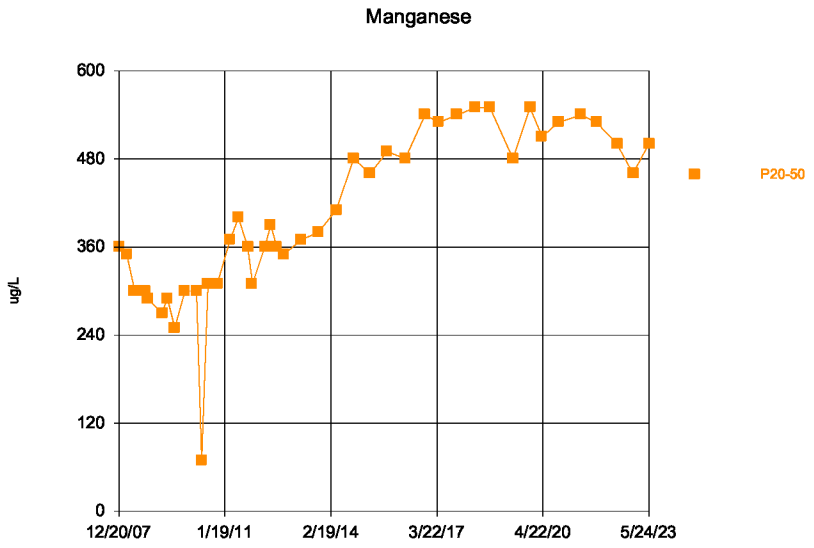
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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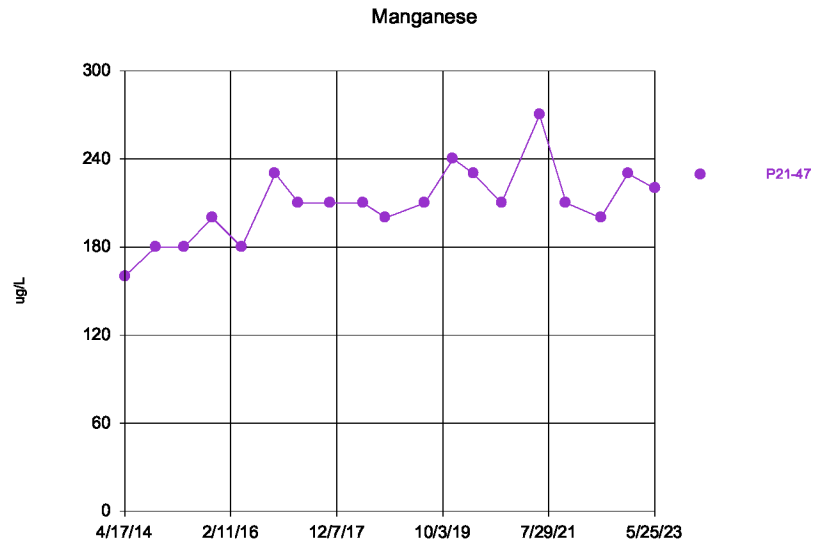

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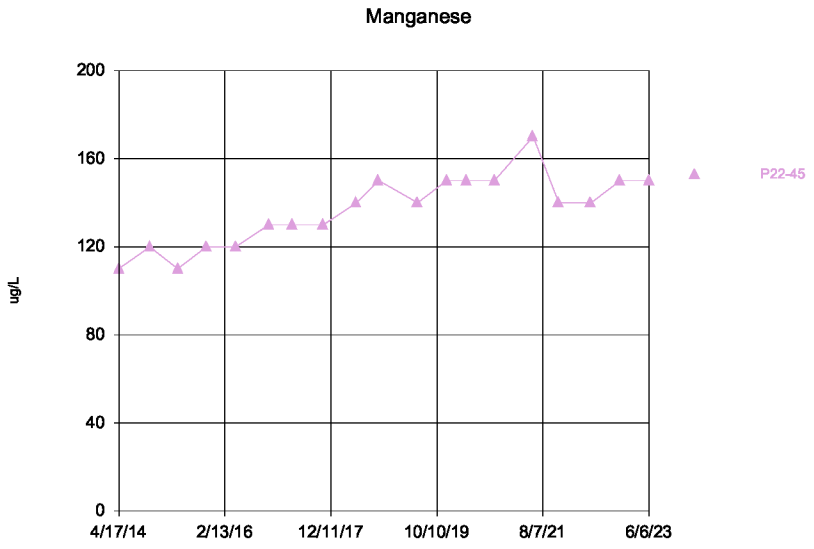

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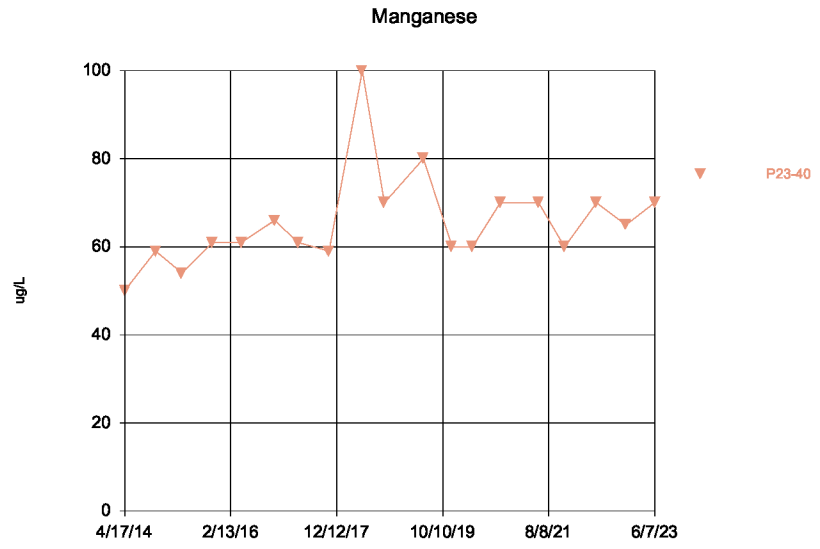

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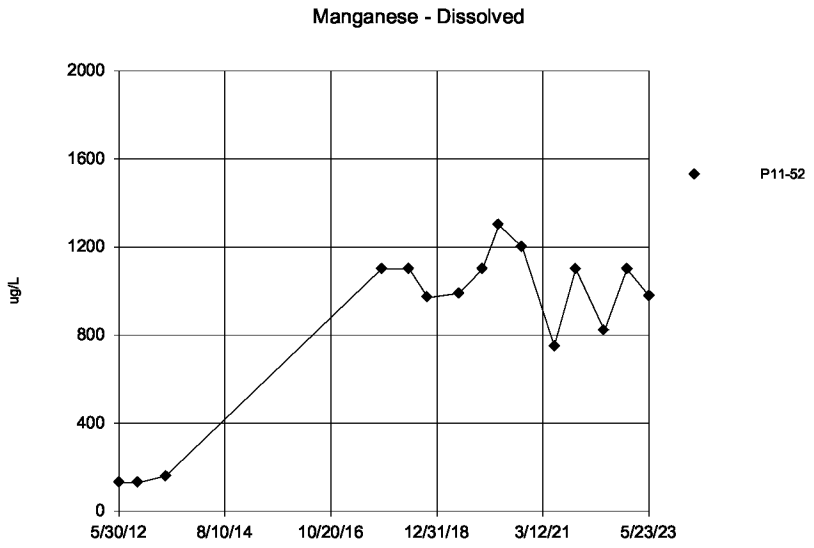
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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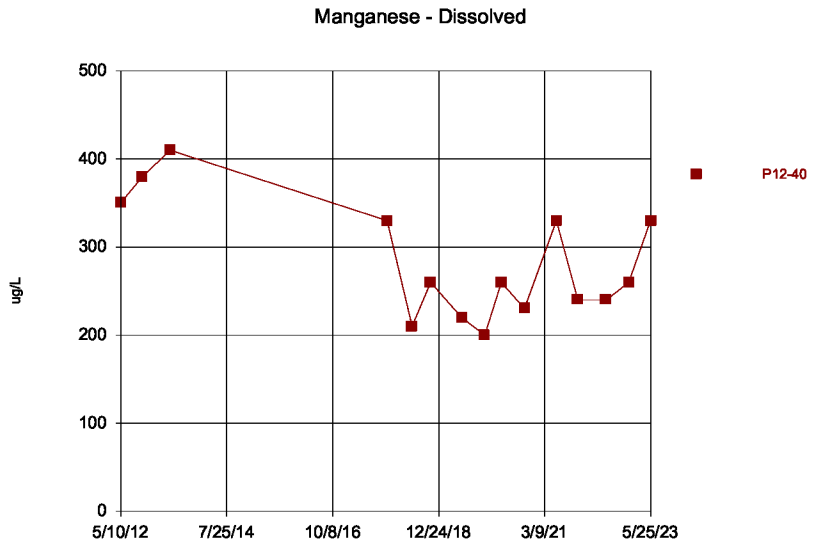

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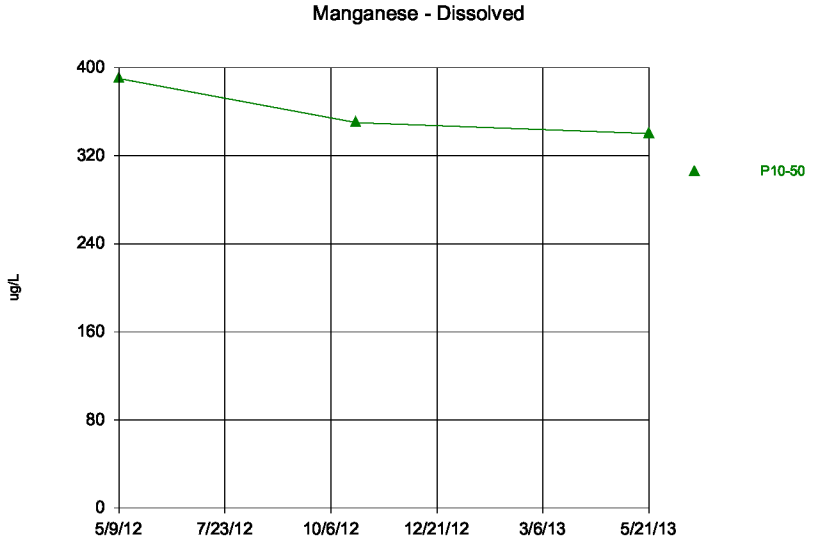

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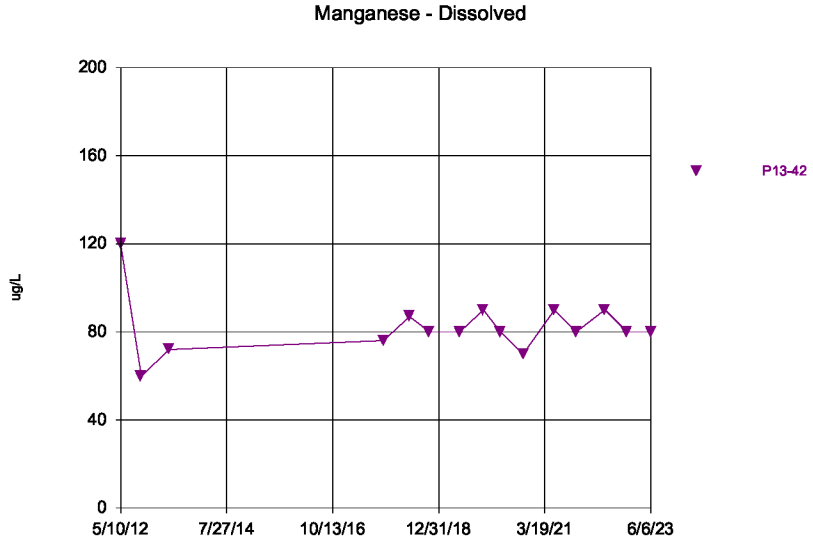
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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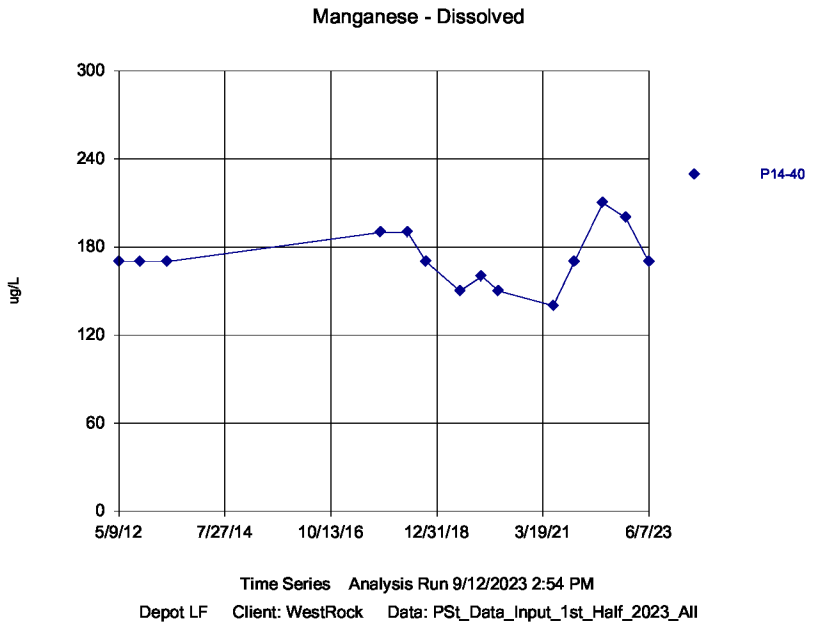

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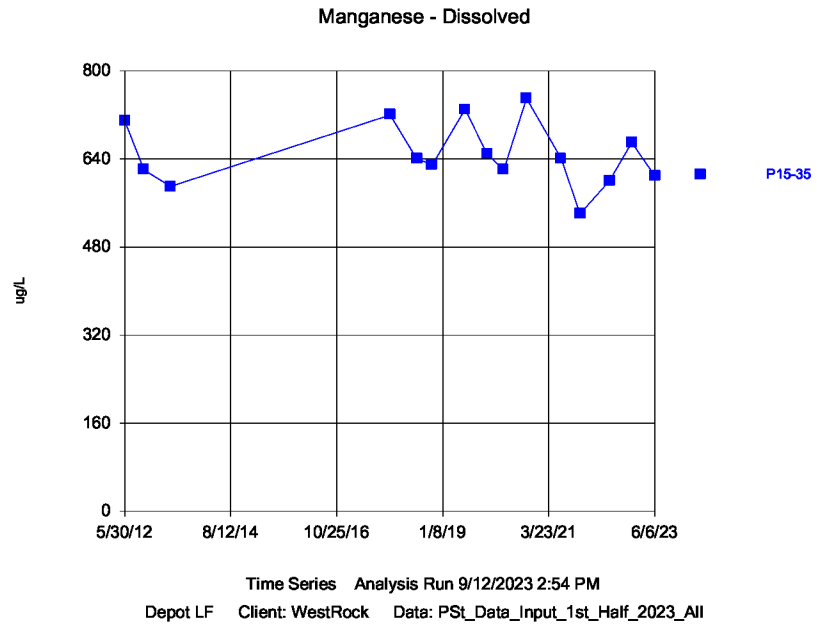

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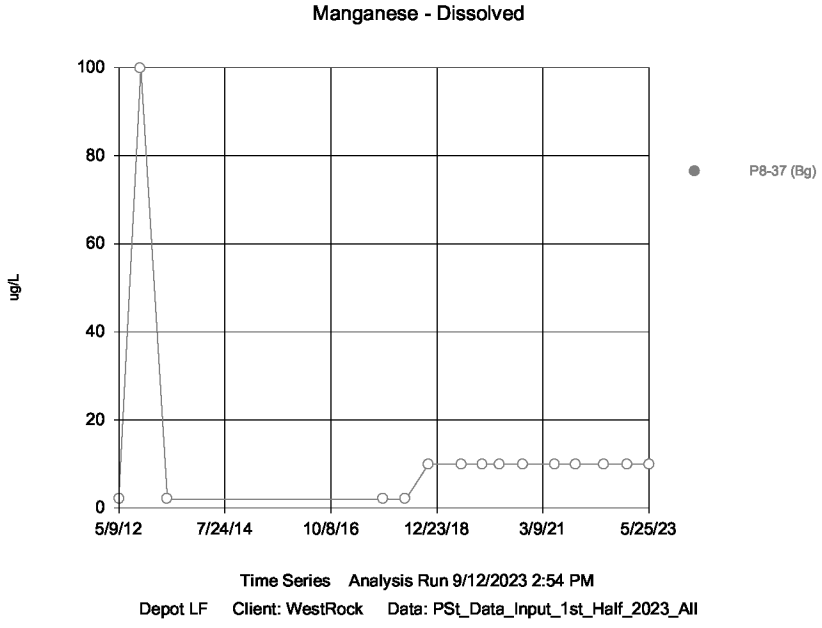

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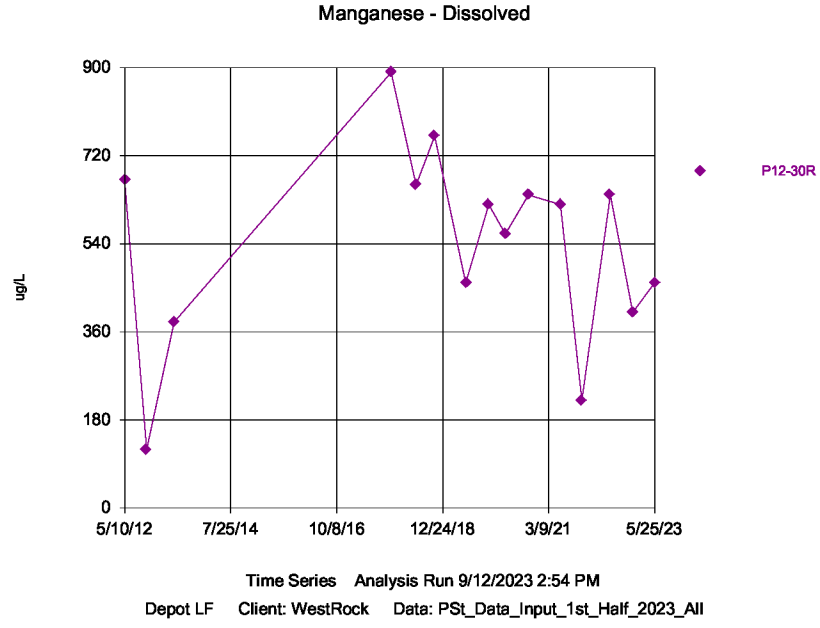

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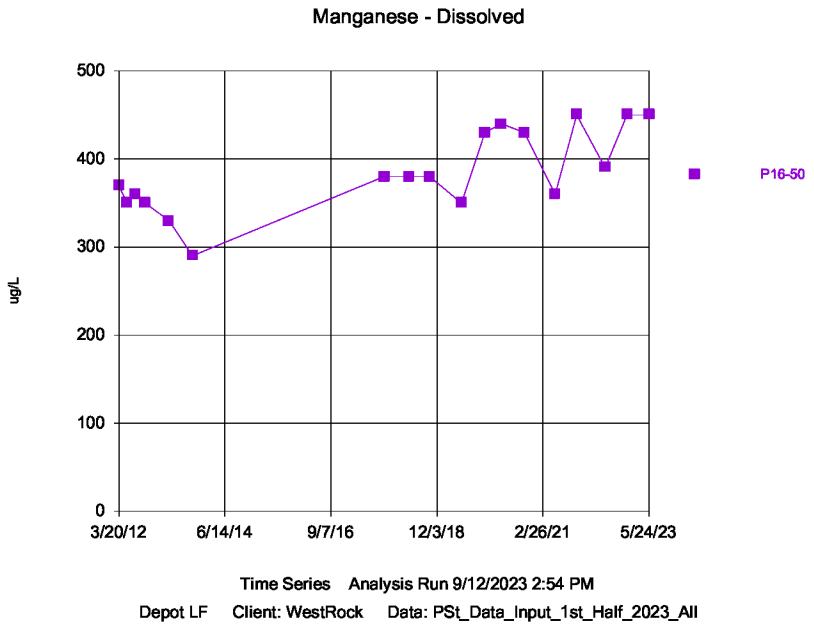

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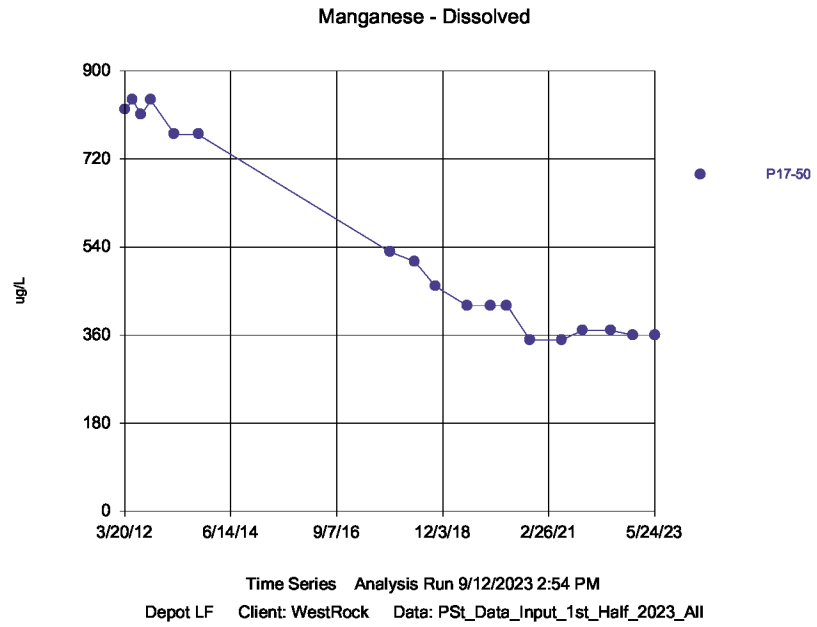

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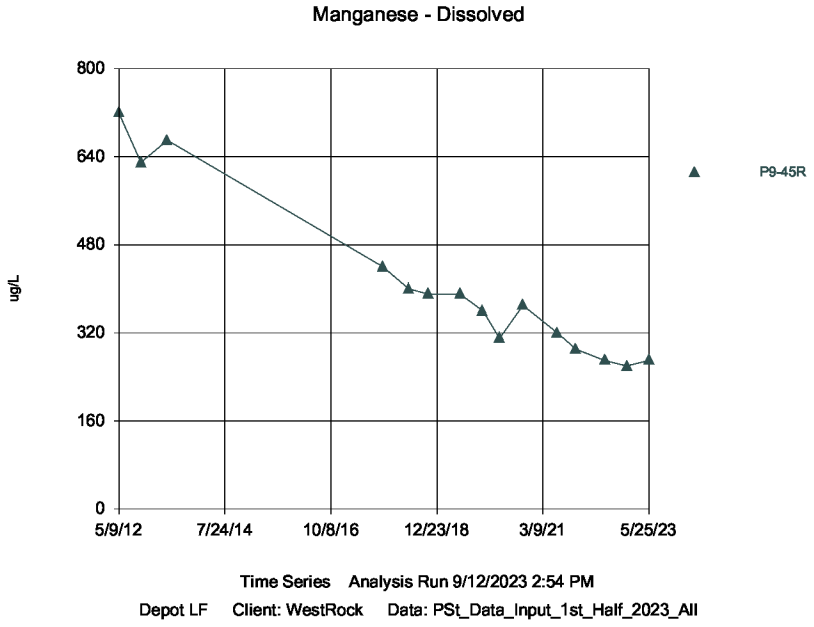

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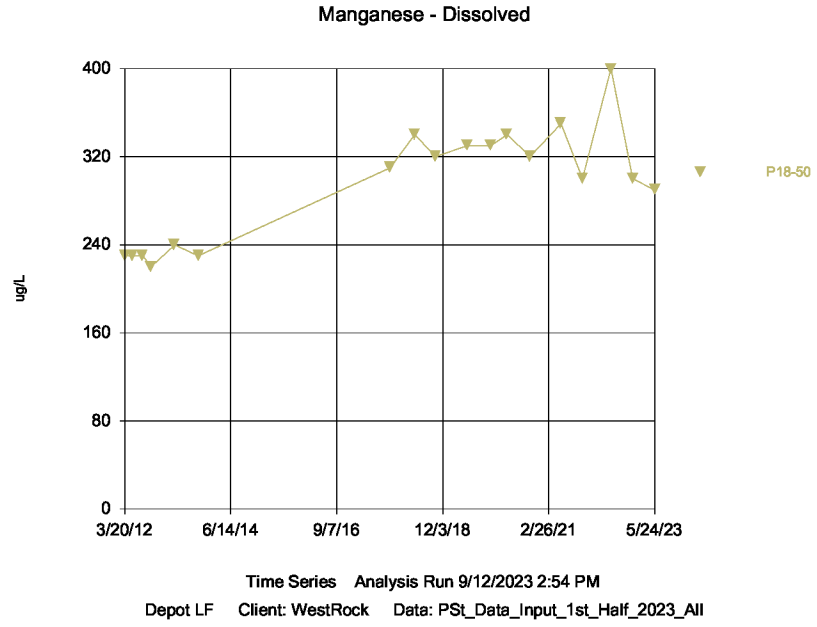

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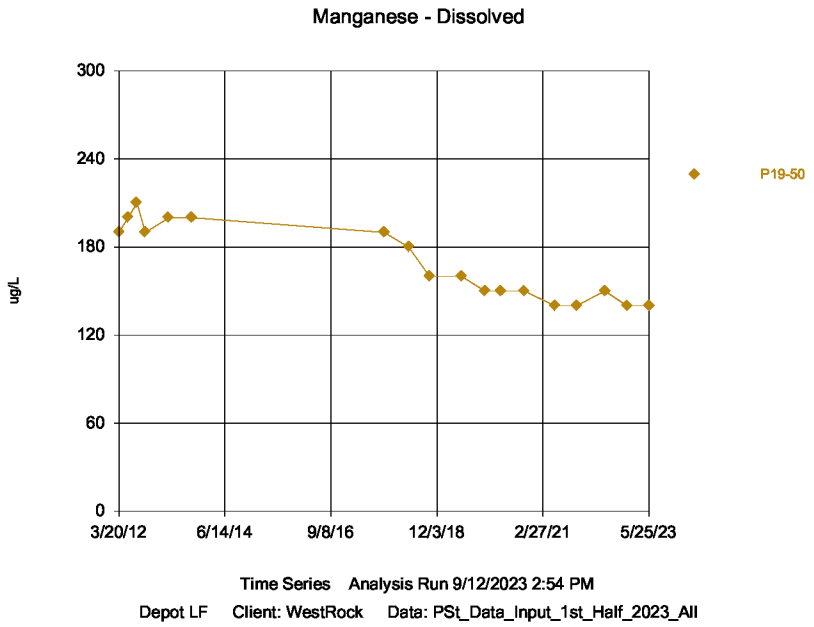

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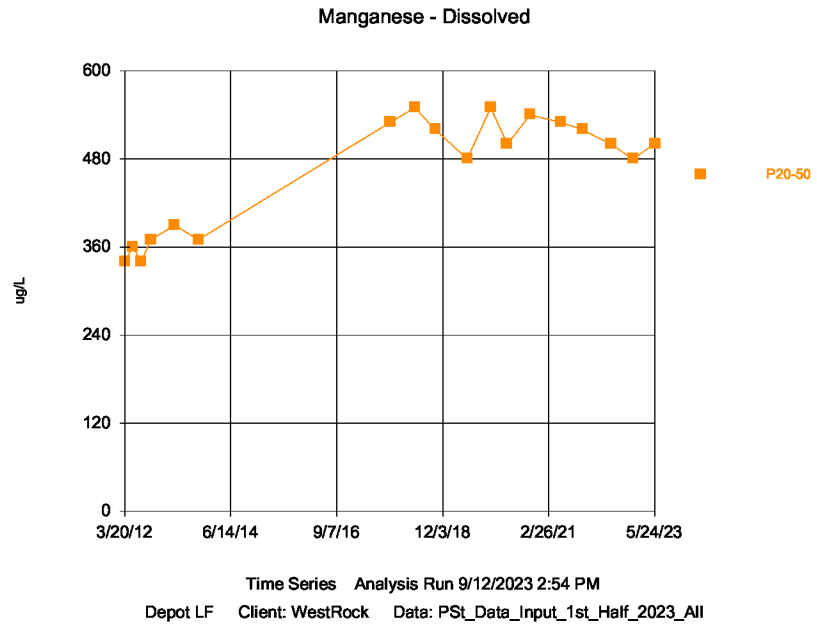

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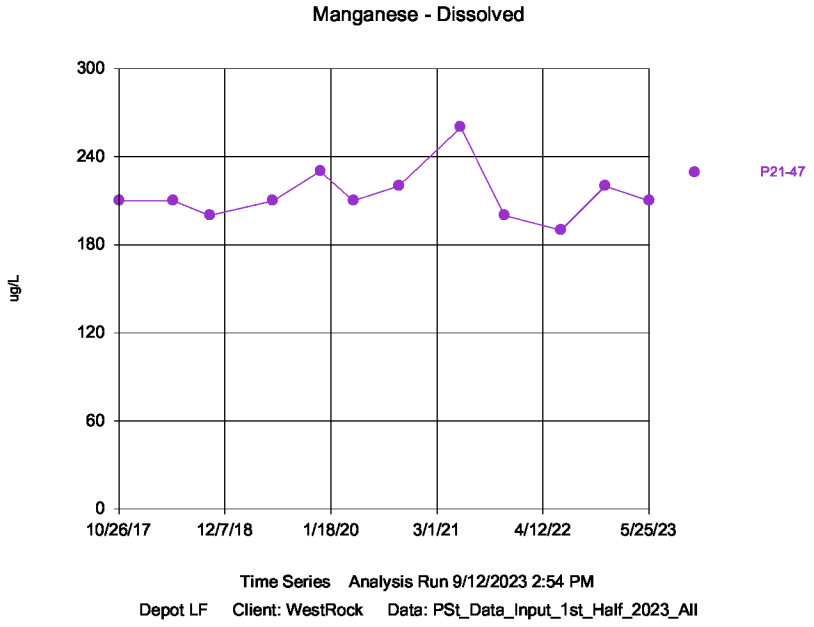

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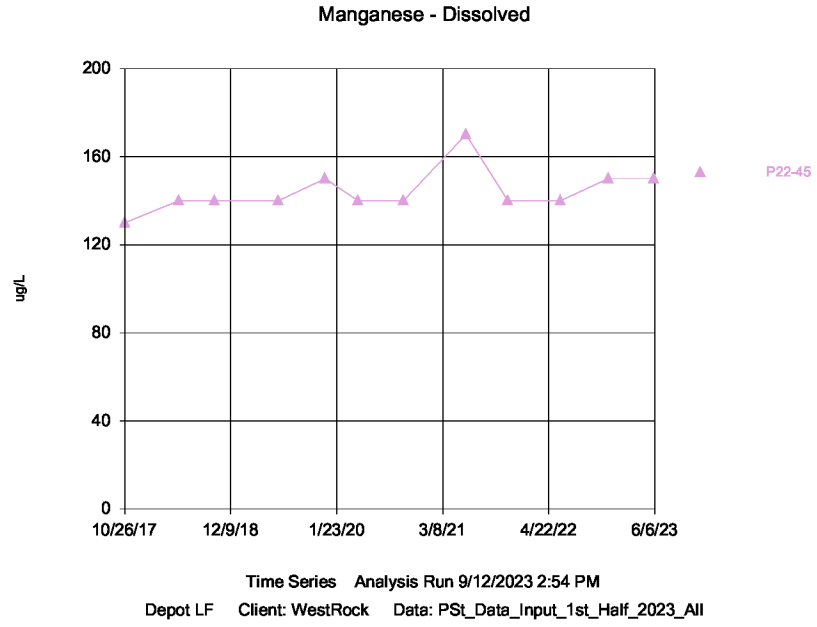
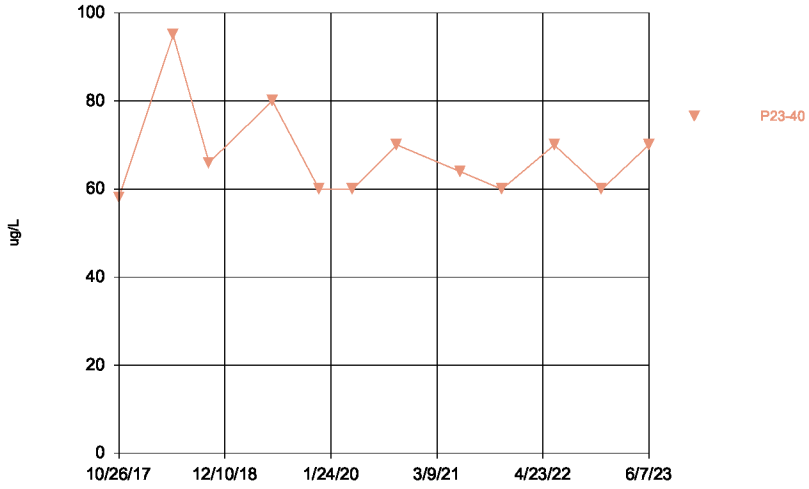


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese - Dissolved



Time Series Analysis Run 9/12/2023 2:54 PM

Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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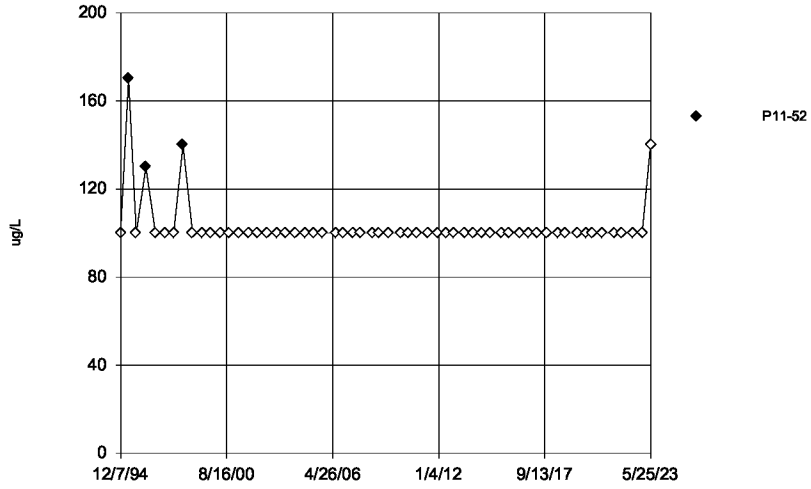
Nitrate



Time Series Analysis Run 9/12/2023 2:54 PM

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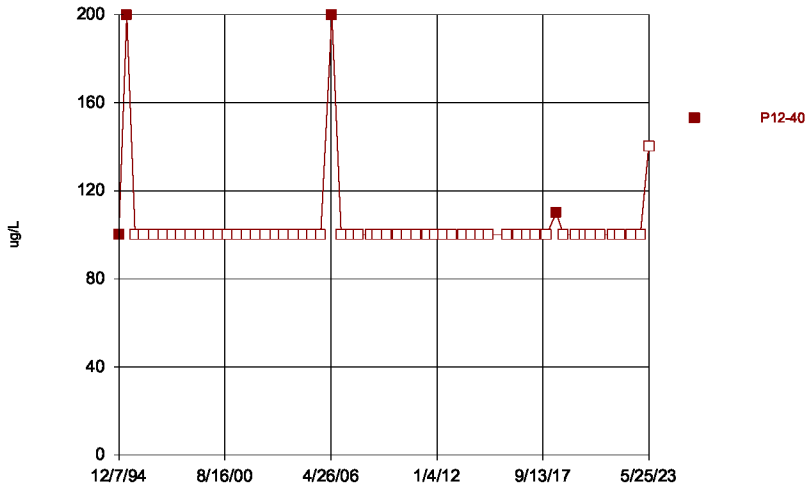
Nitrate



Time Series Analysis Run 9/12/2023 2:54 PM

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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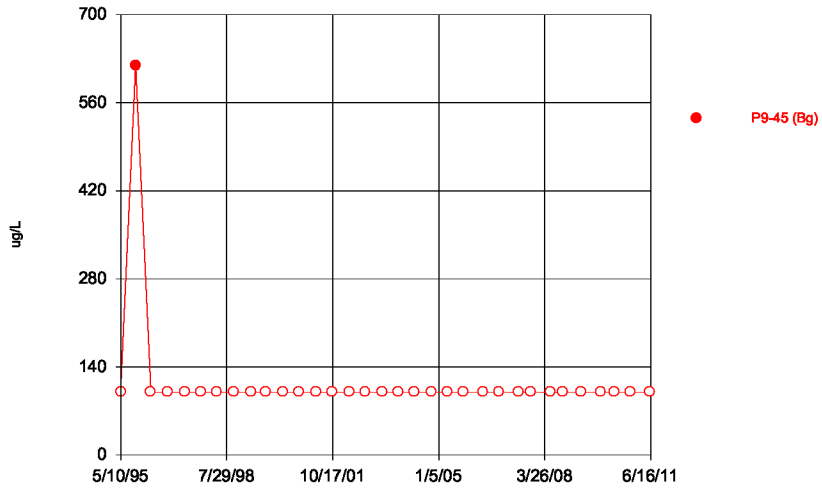
Nitrate



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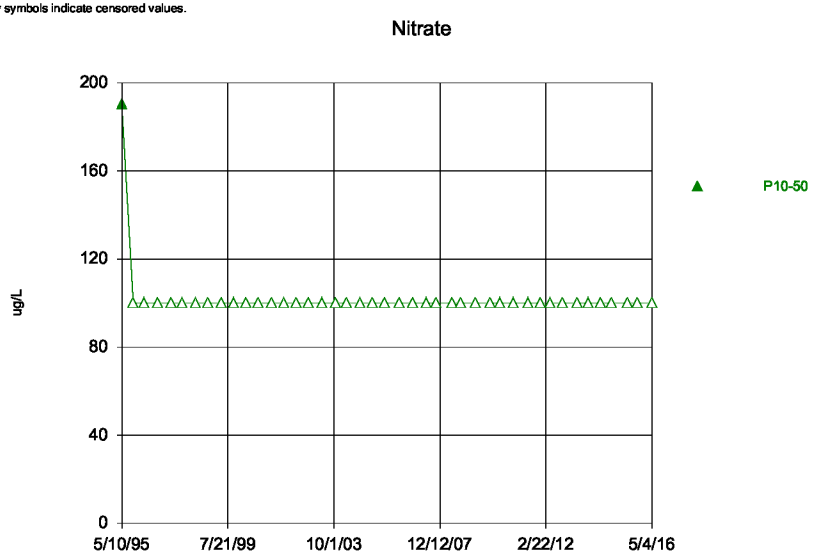

Time Series Analysis Run 9/12/2023 2:54 PM
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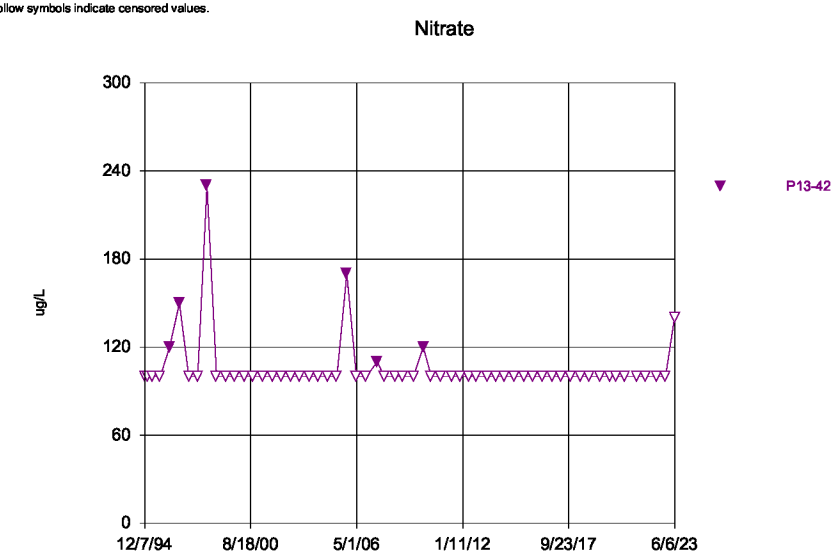

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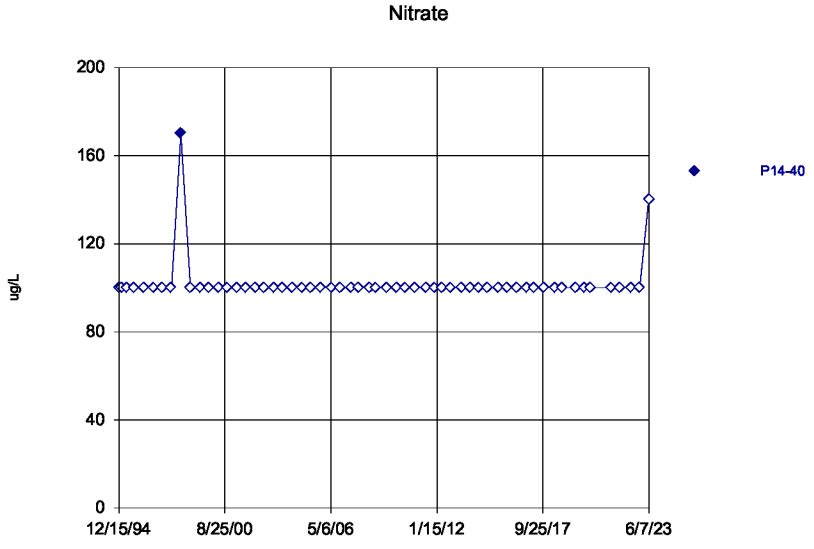

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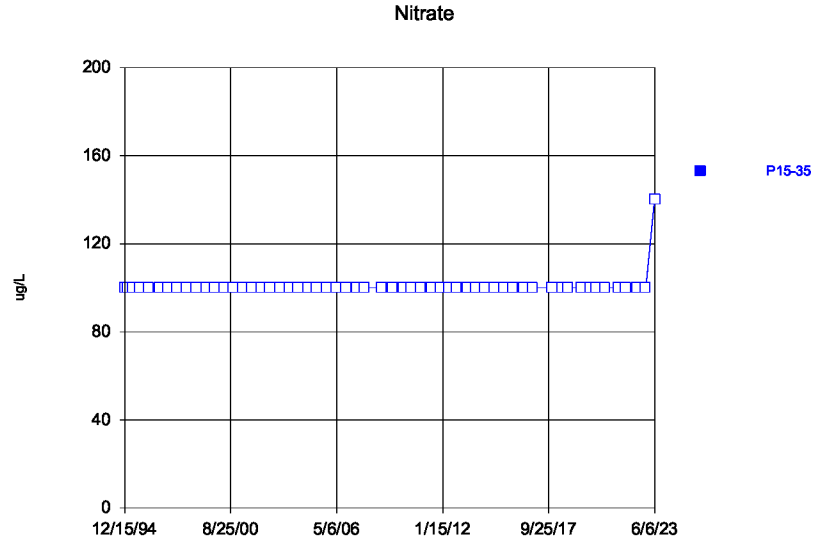

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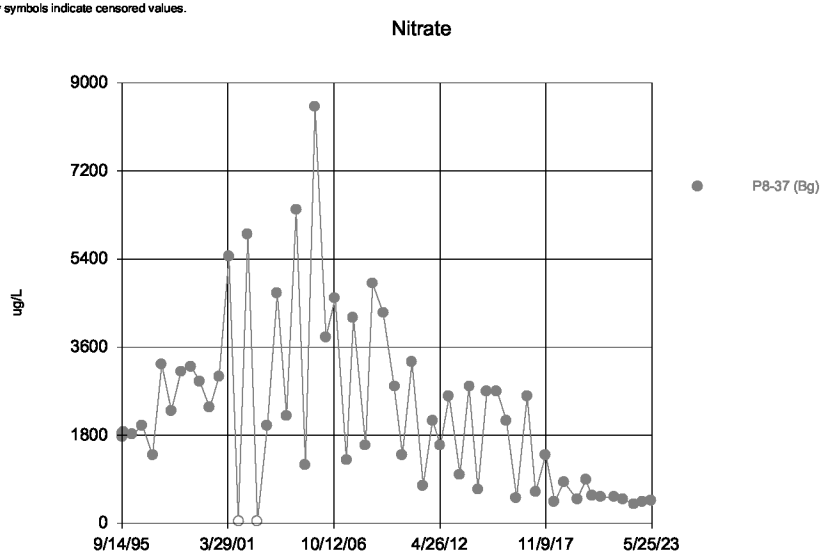

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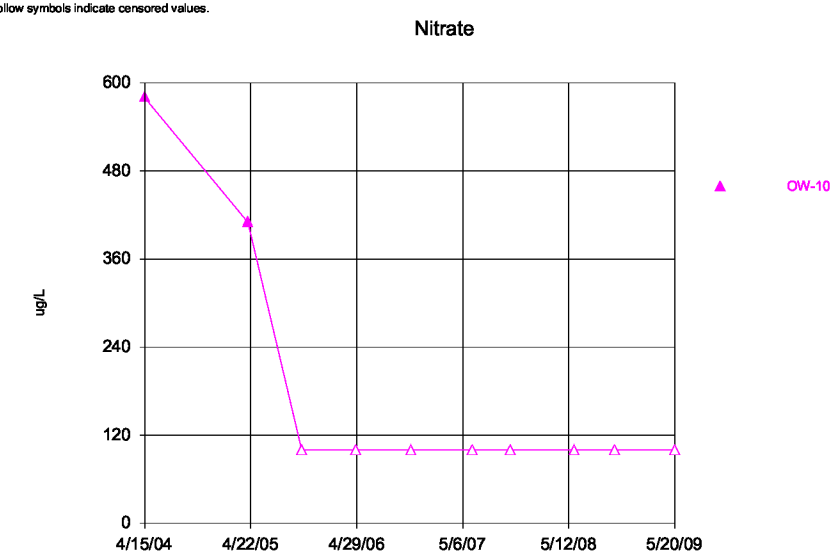

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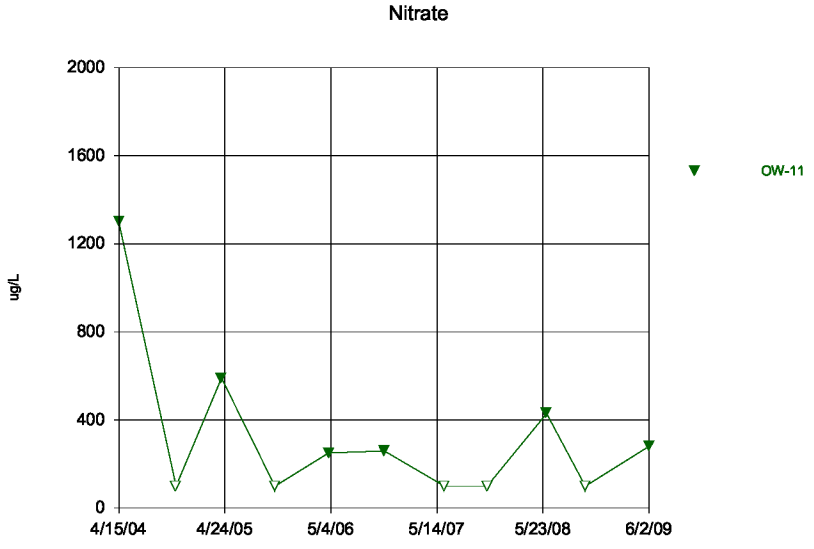

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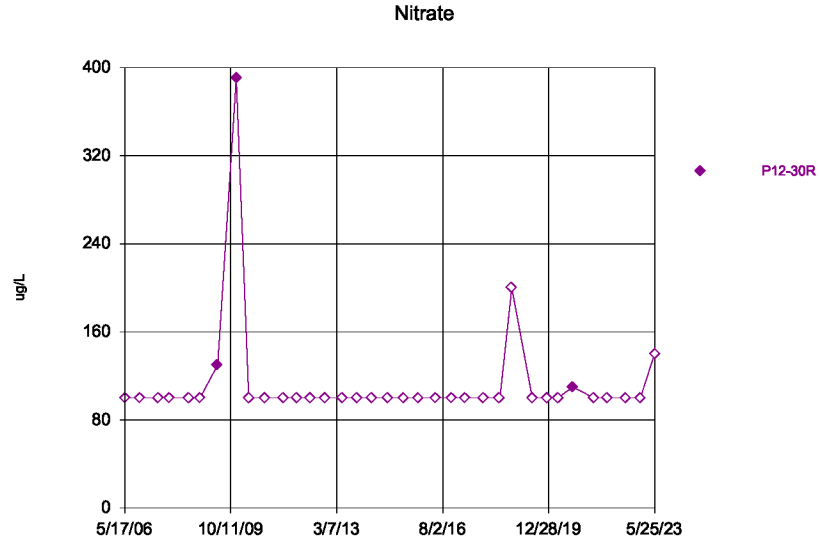

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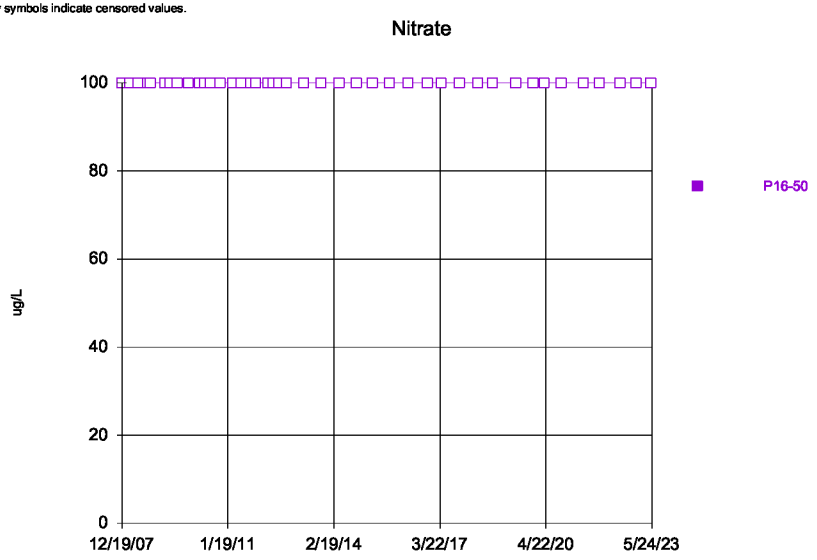

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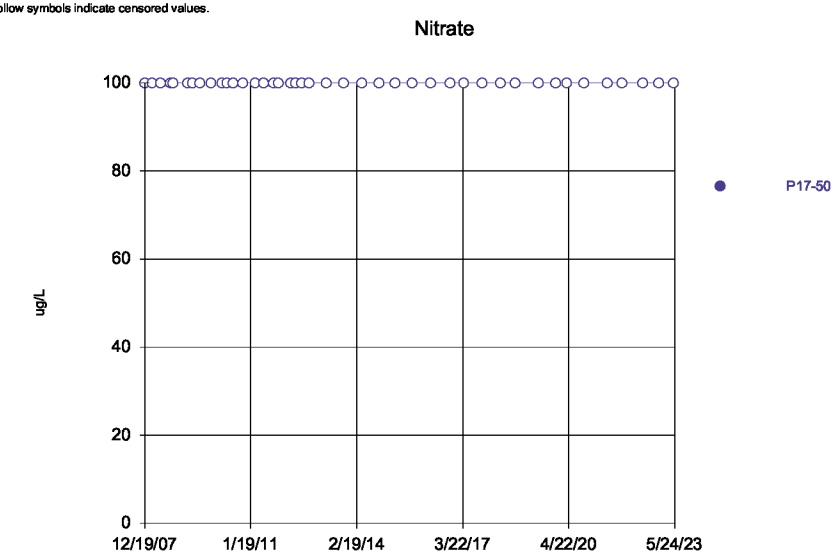

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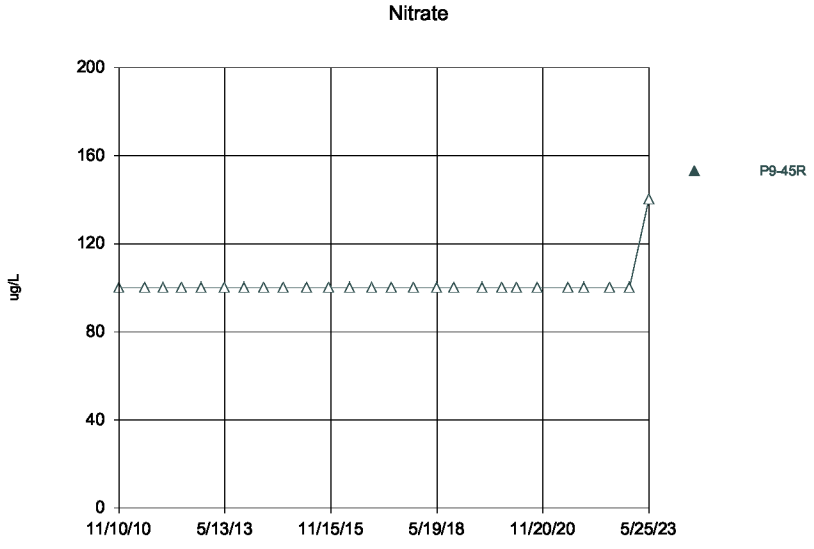

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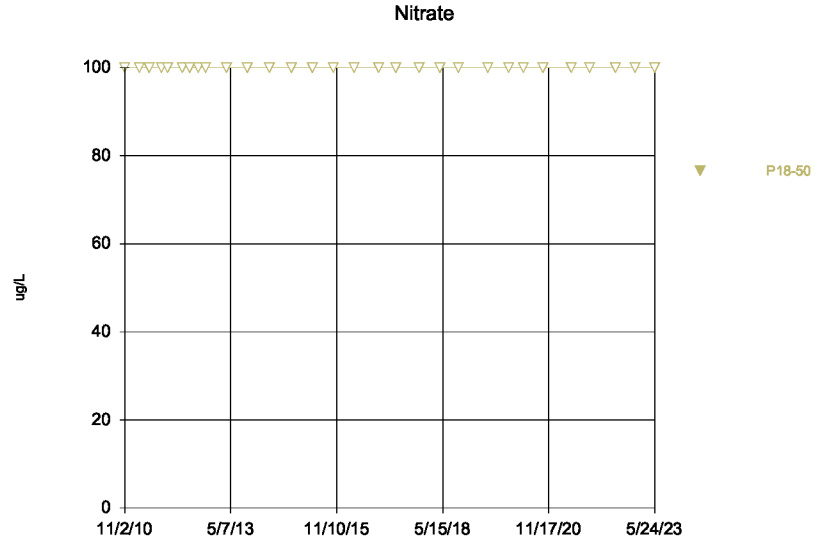

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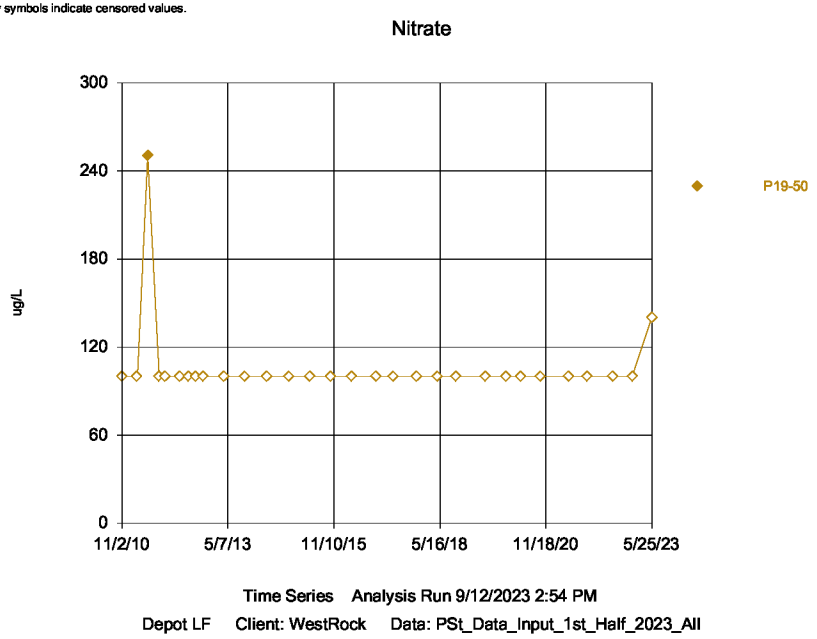

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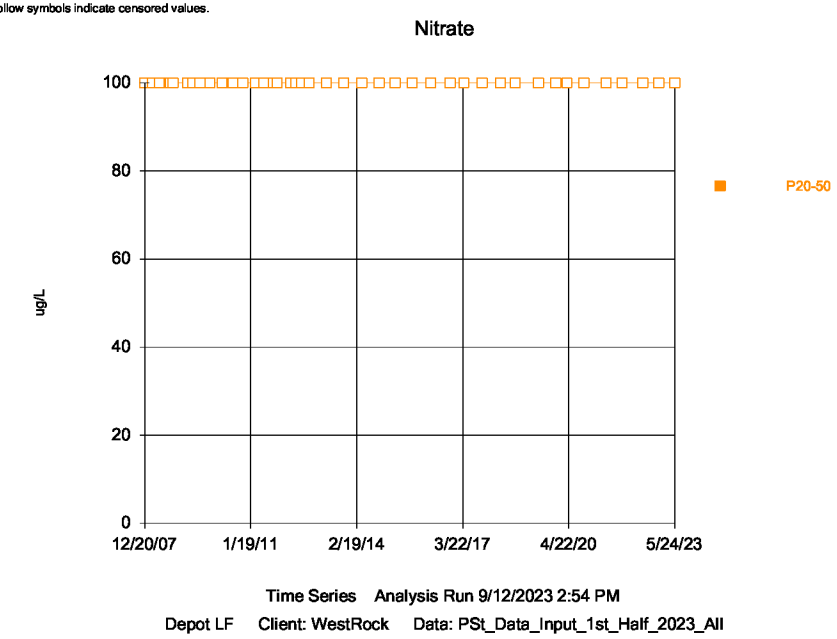

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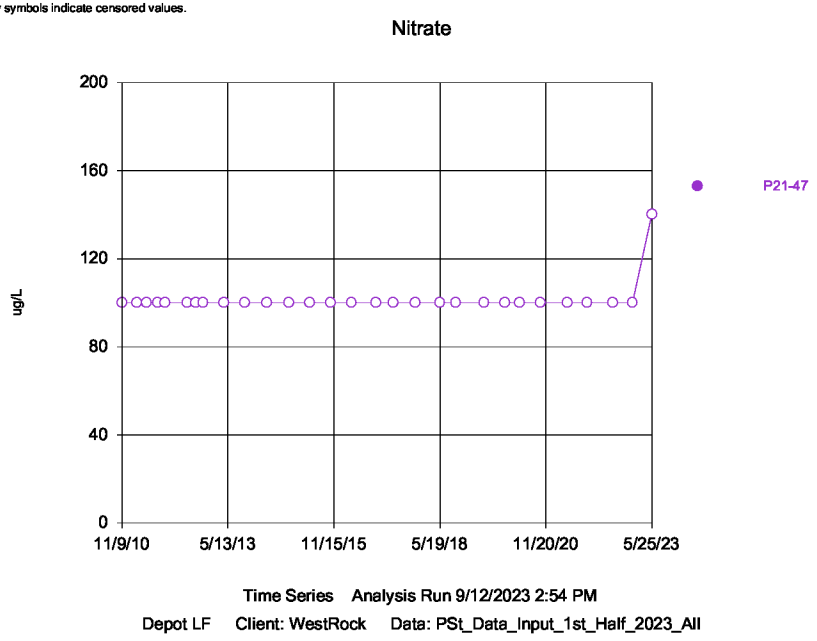

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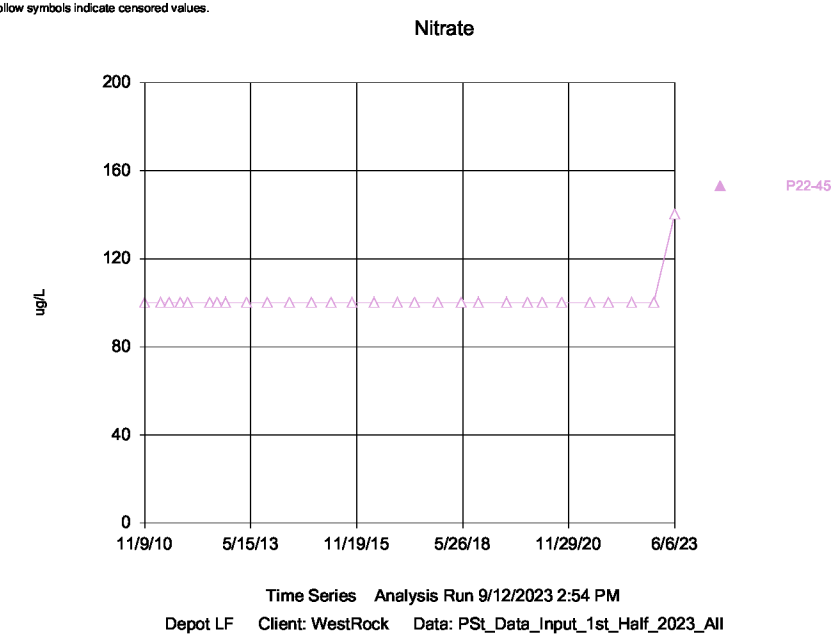

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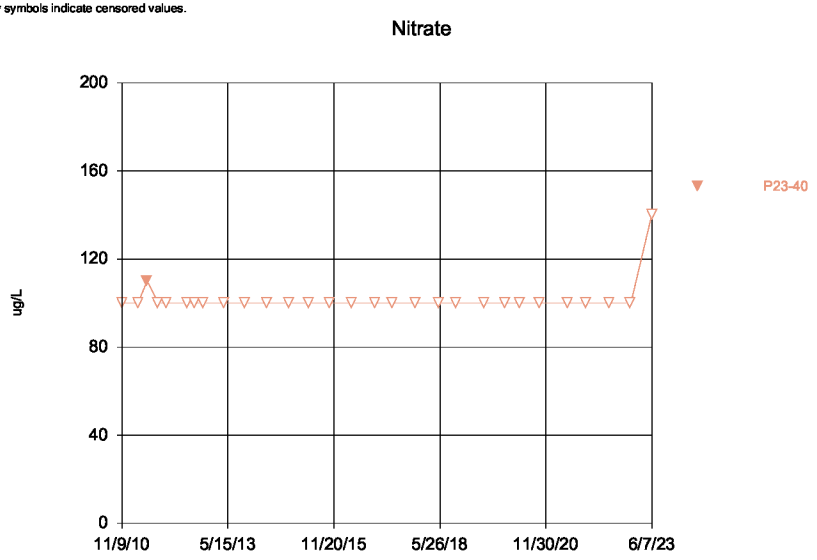

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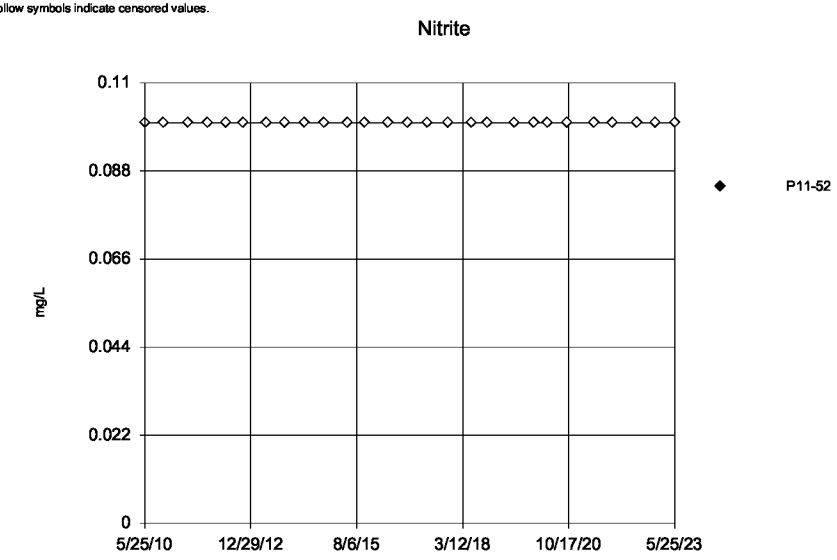

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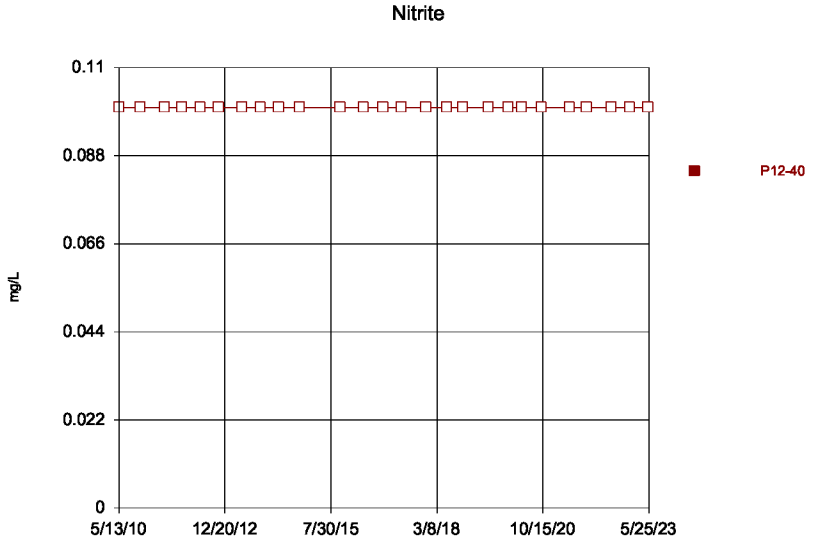
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Time Series Analysis Run 9/12/2023 2:54 PM
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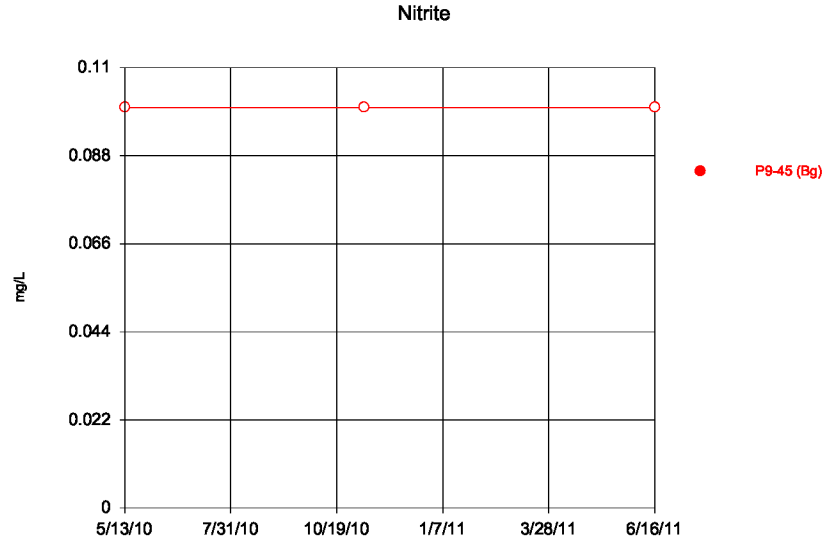
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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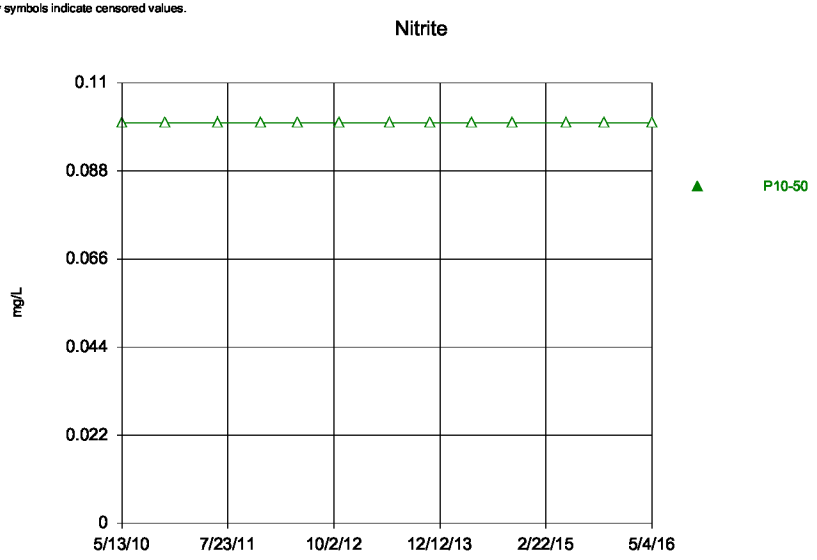

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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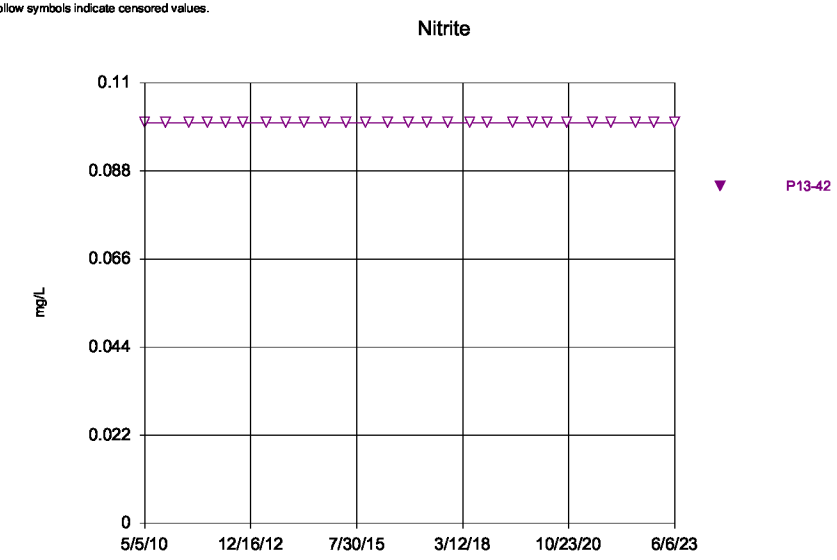

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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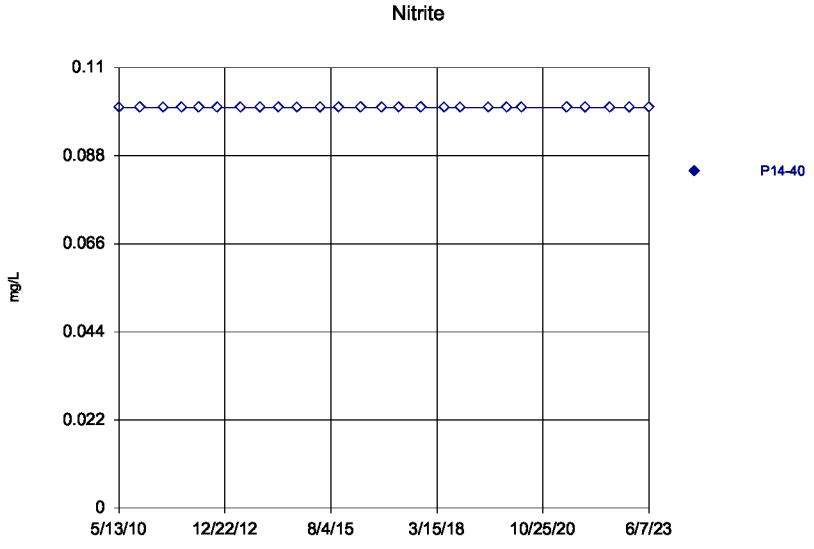

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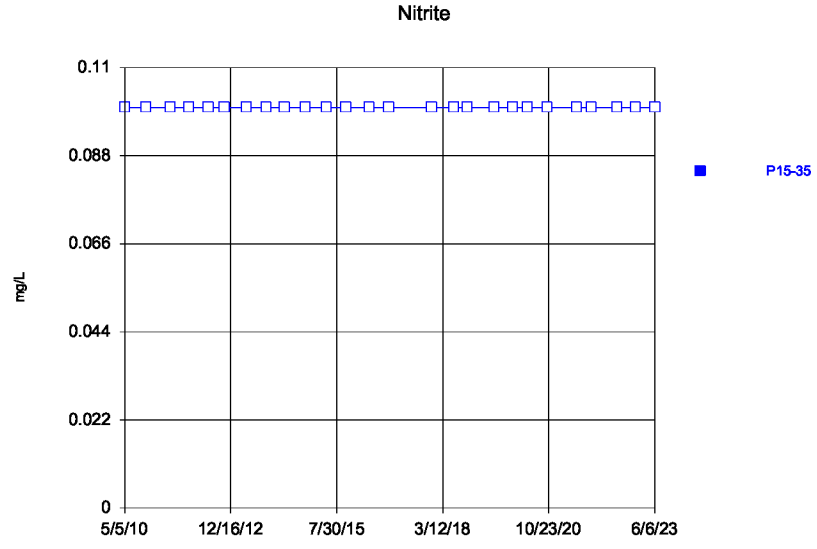

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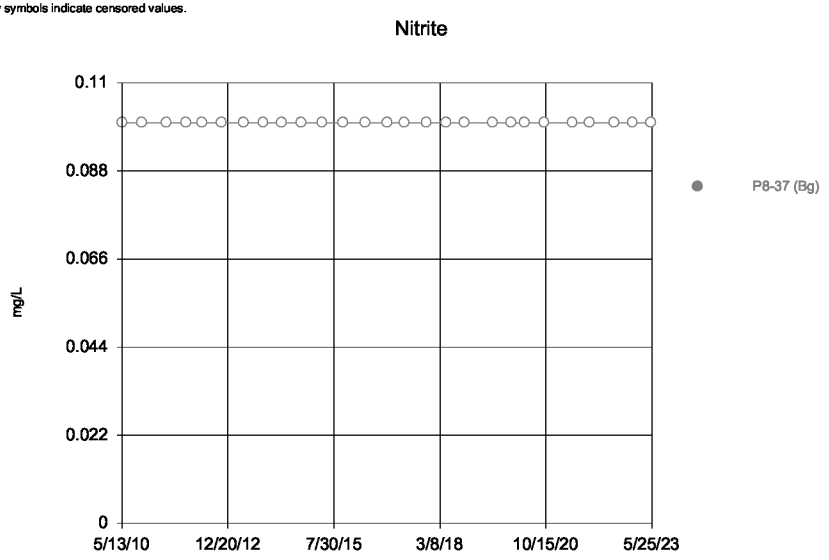

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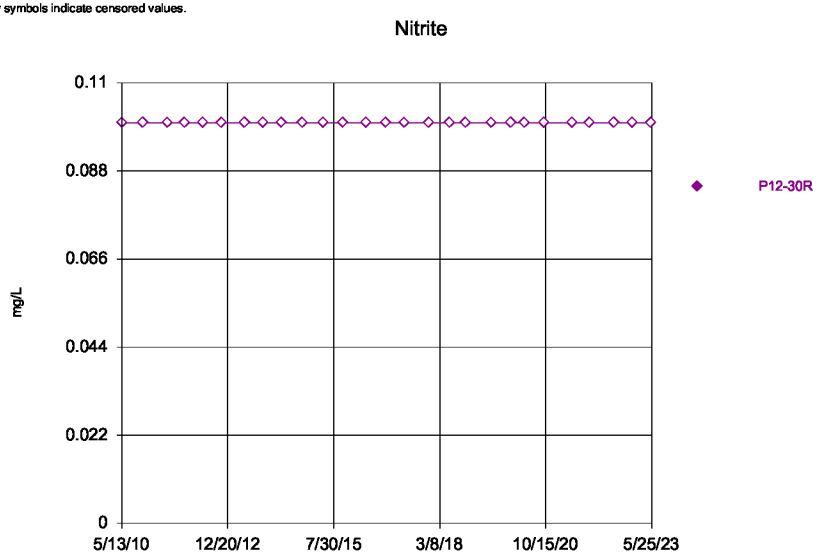

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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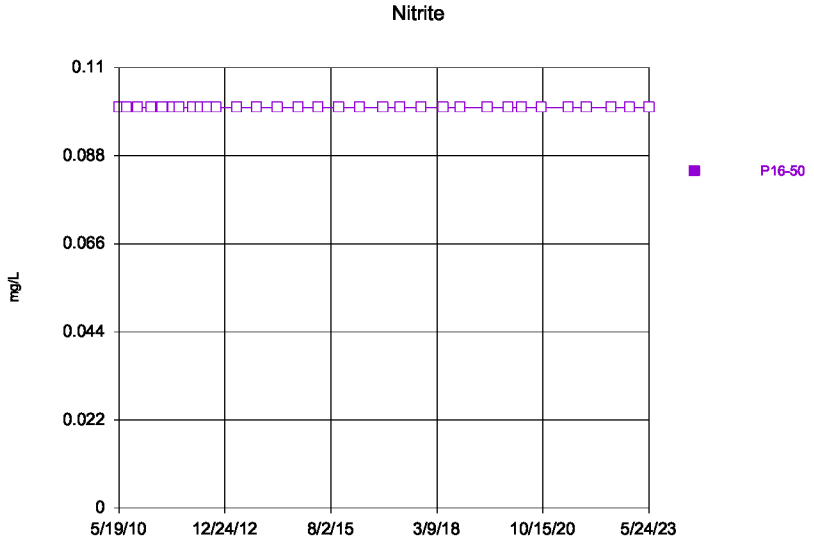

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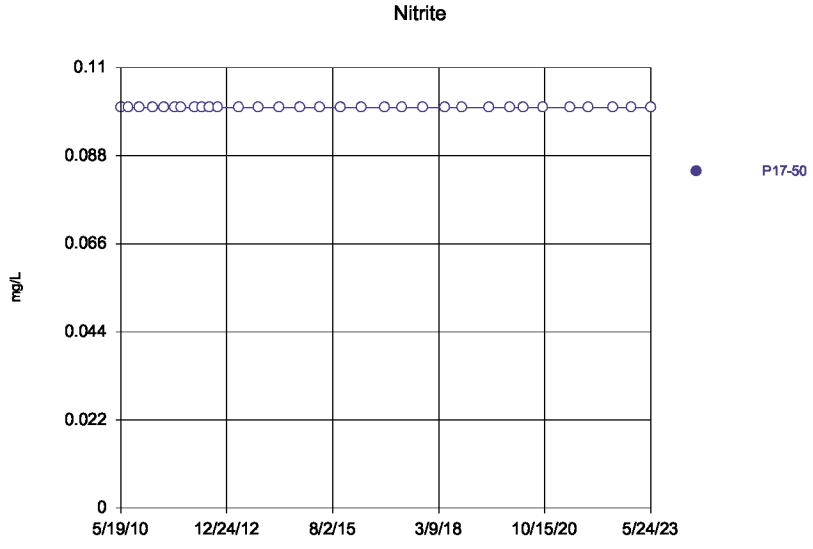

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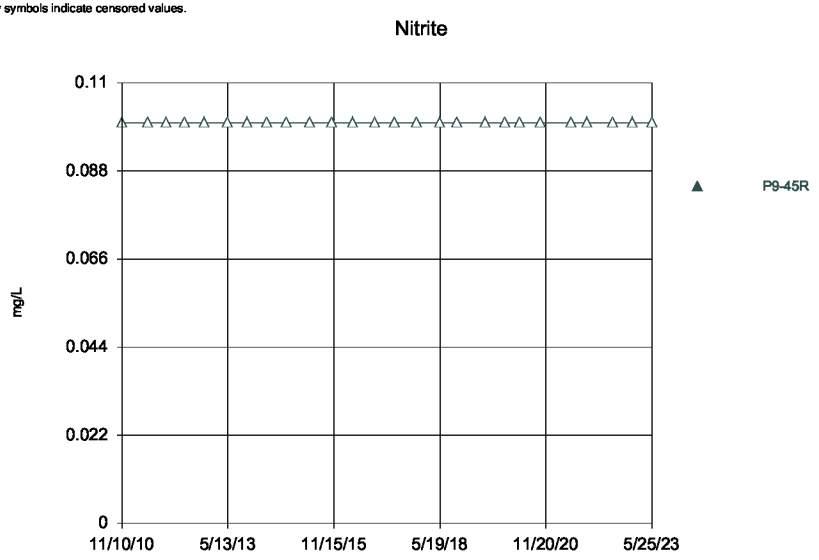

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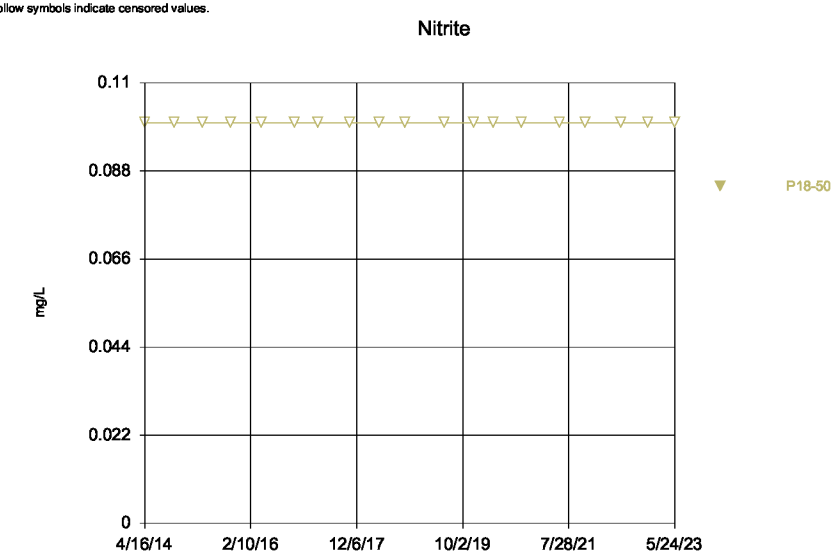

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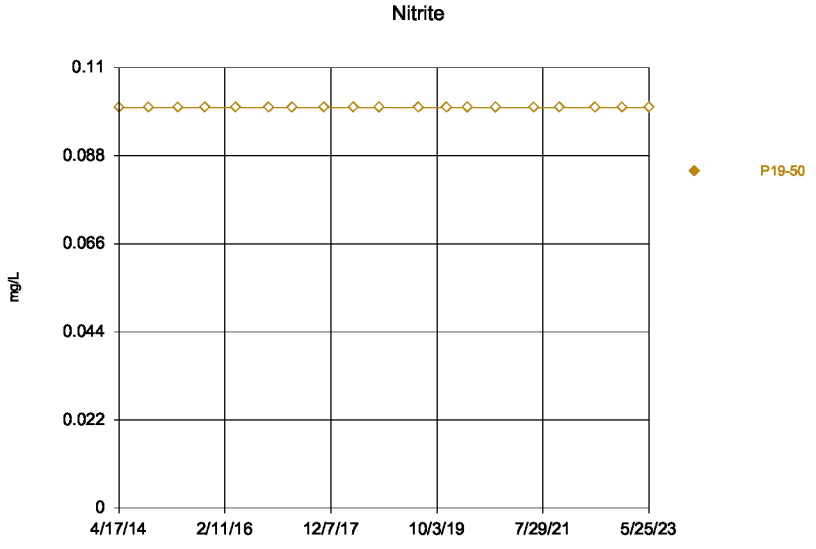

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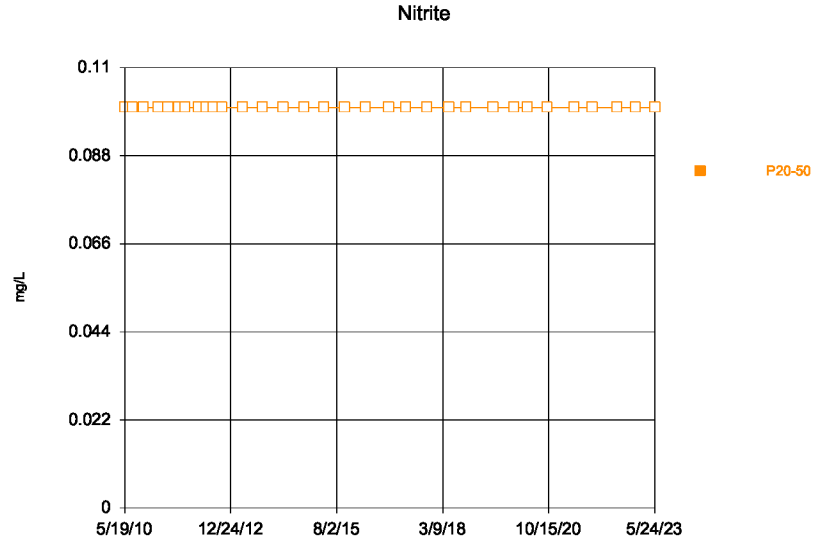

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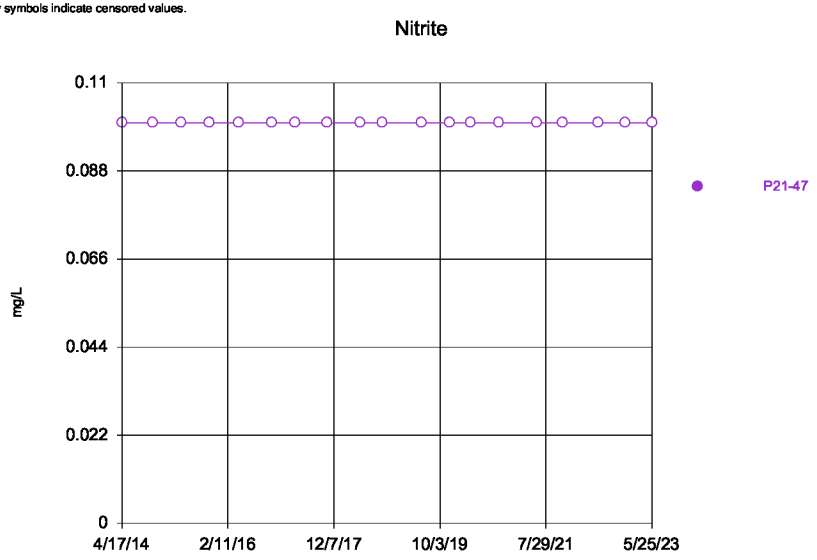

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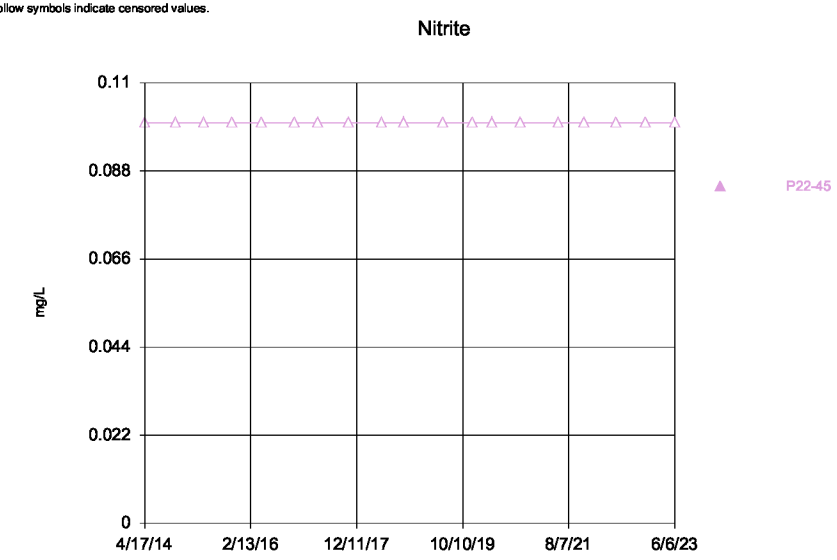

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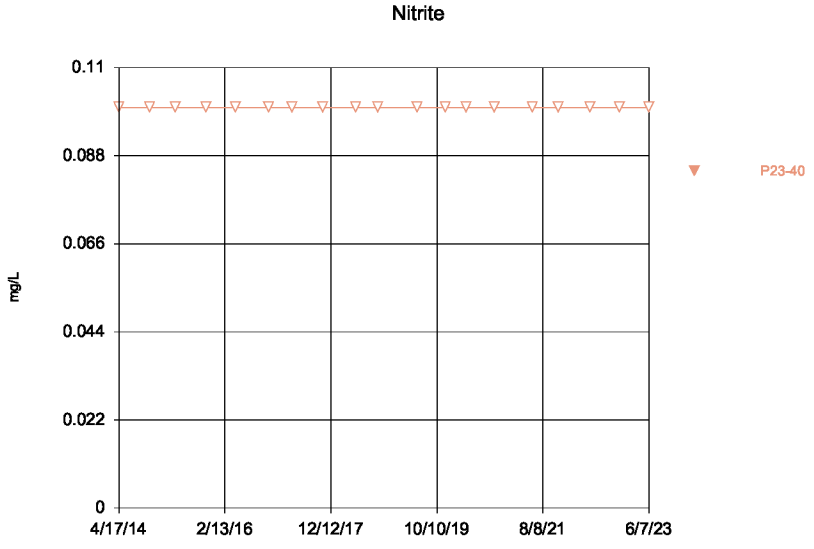

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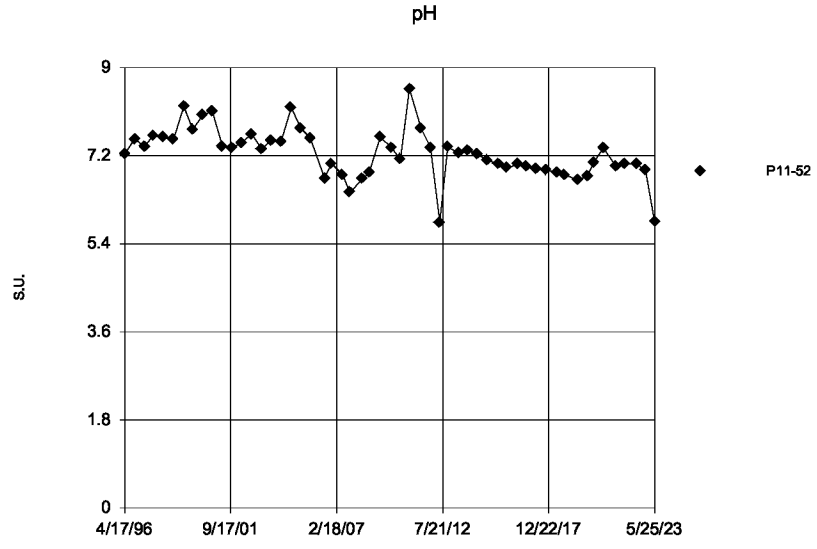

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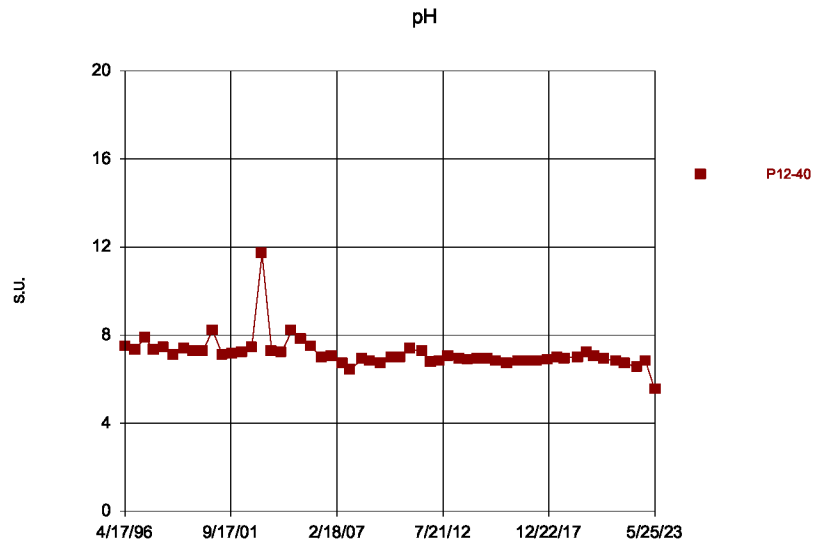

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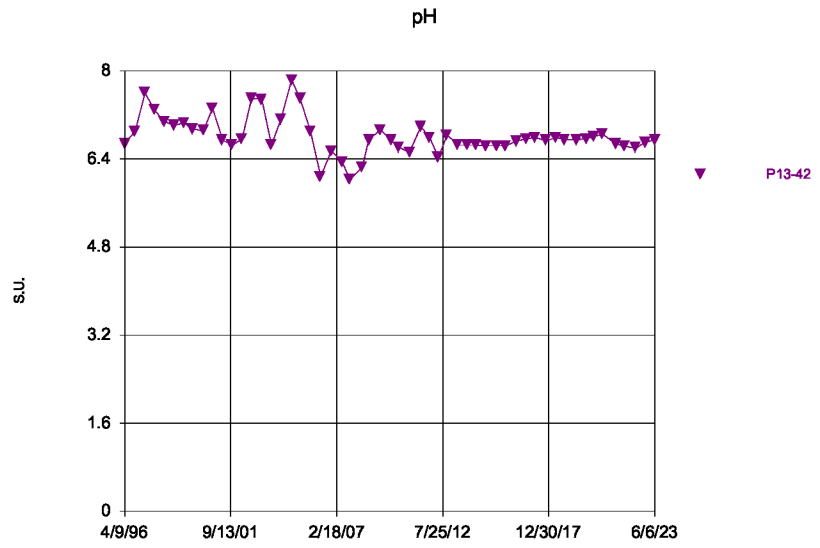

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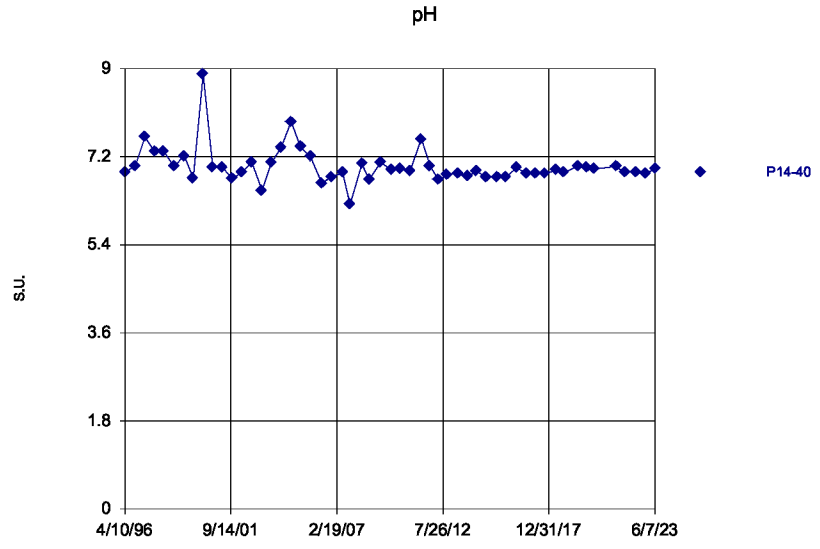

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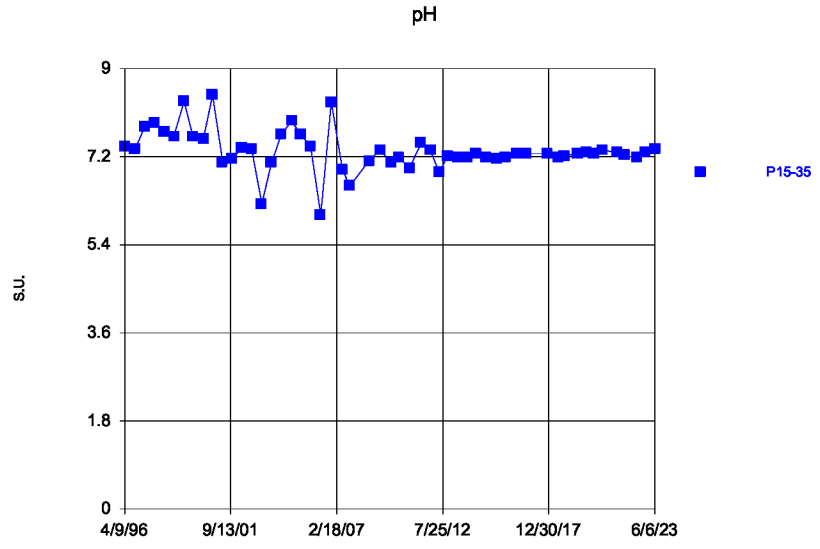

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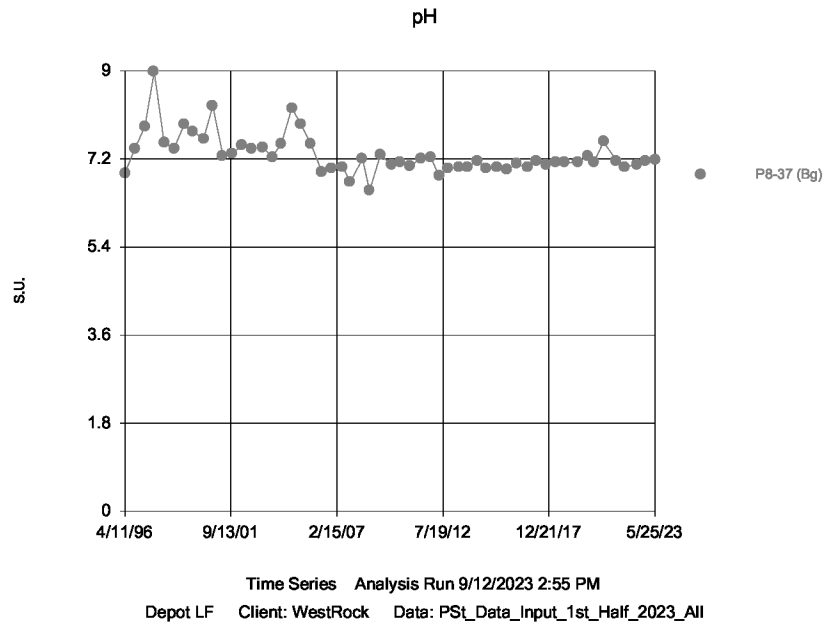

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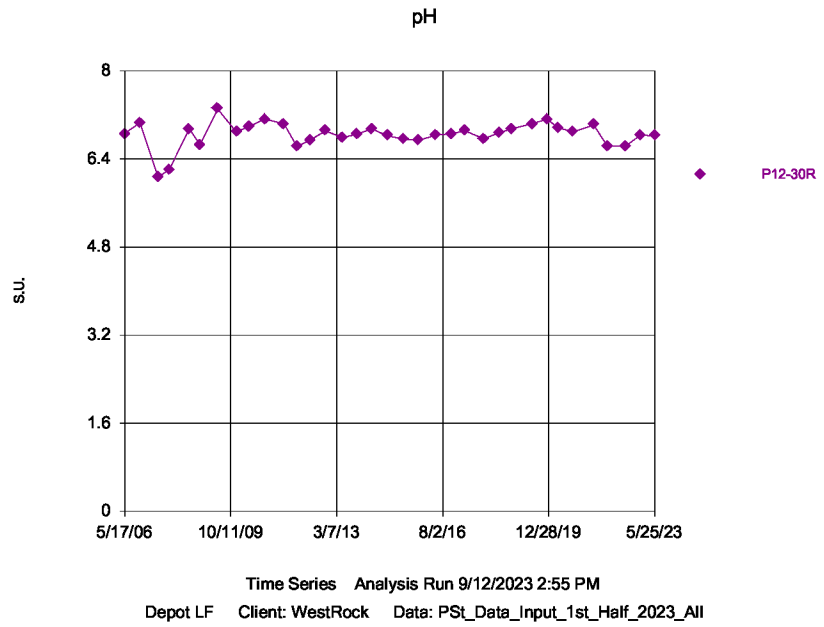

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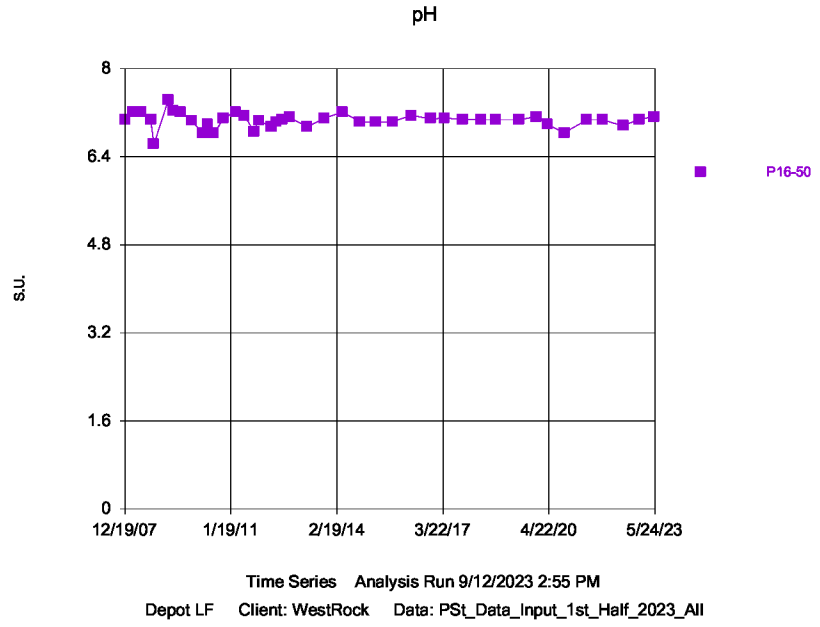

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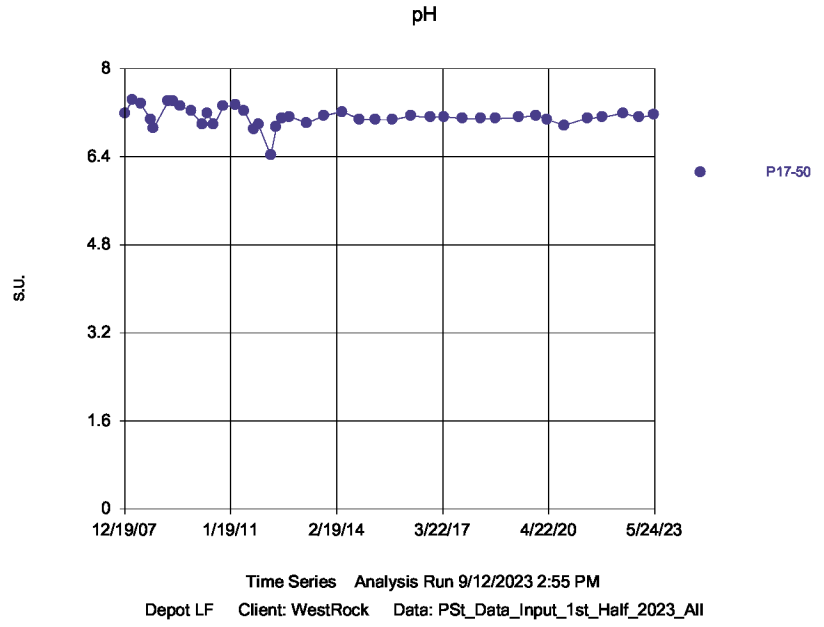

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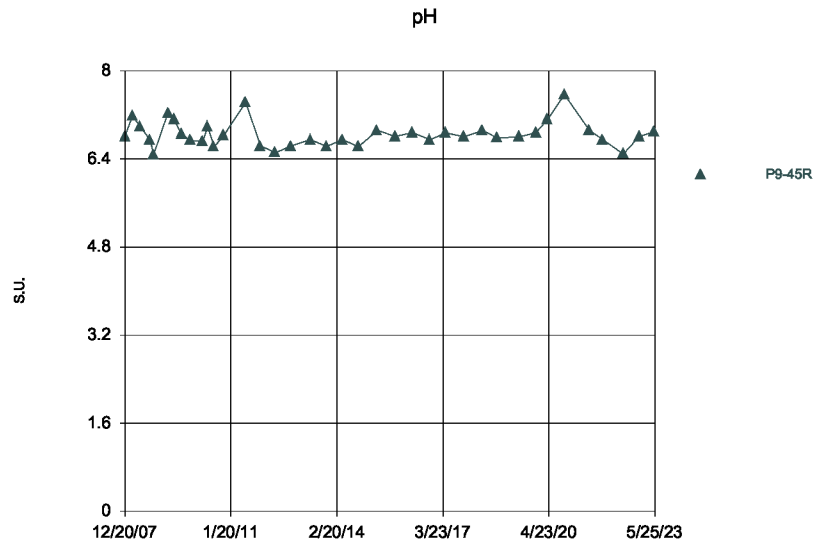

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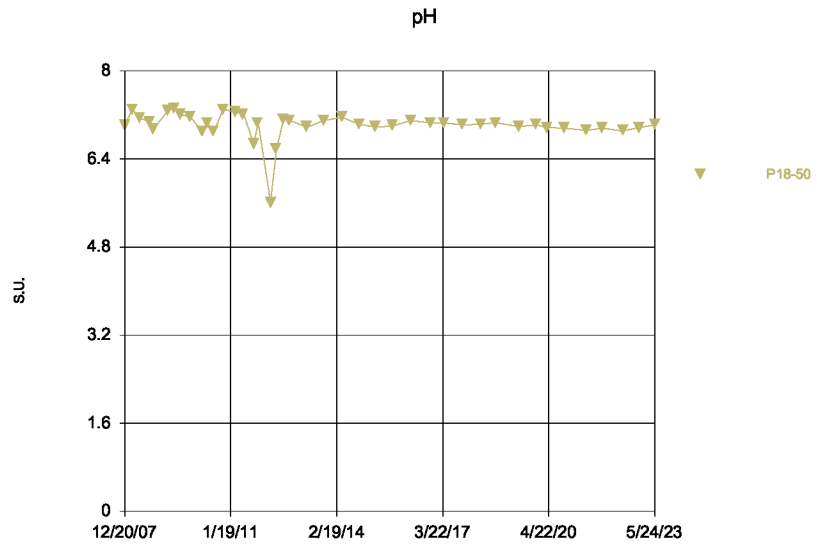

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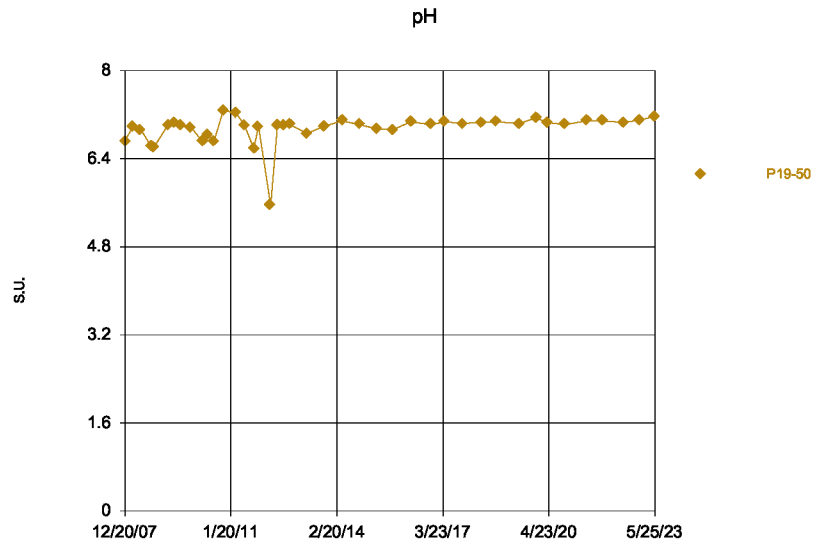

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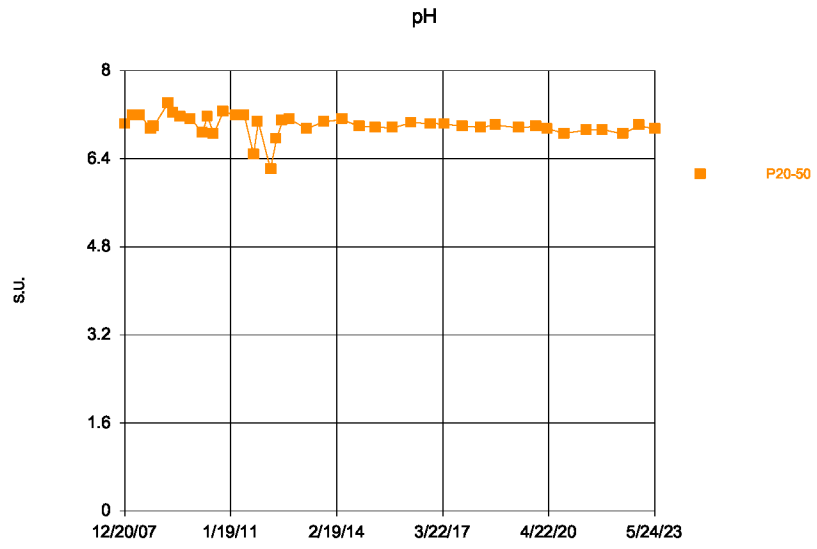

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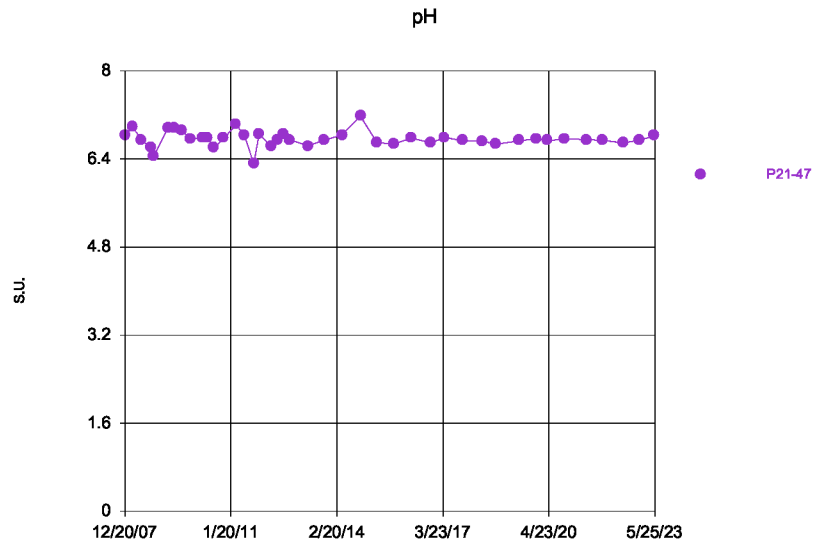

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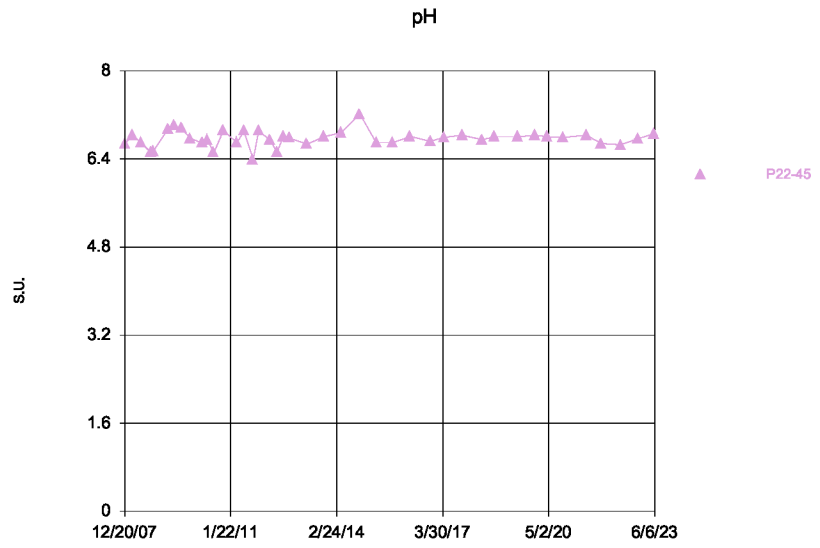

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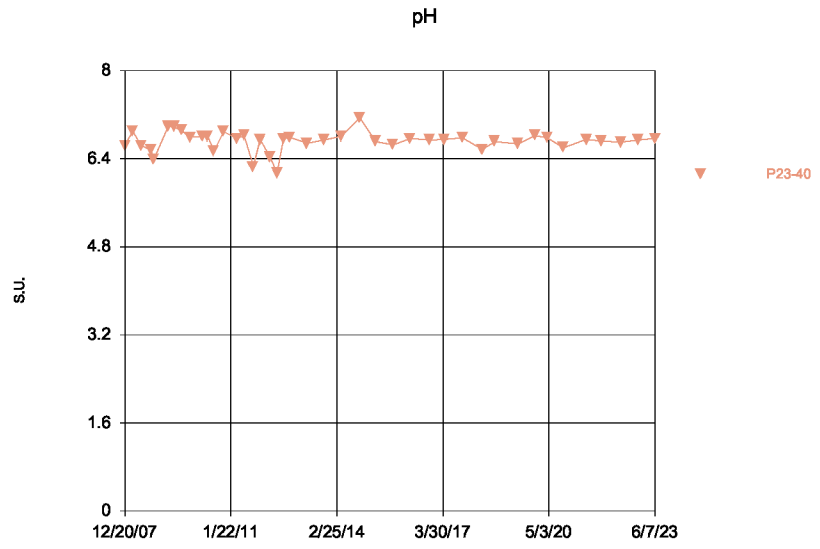

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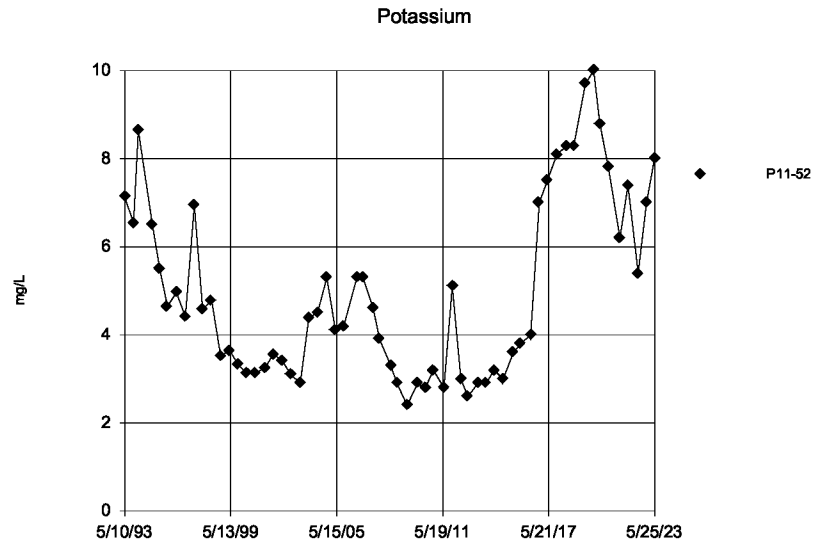

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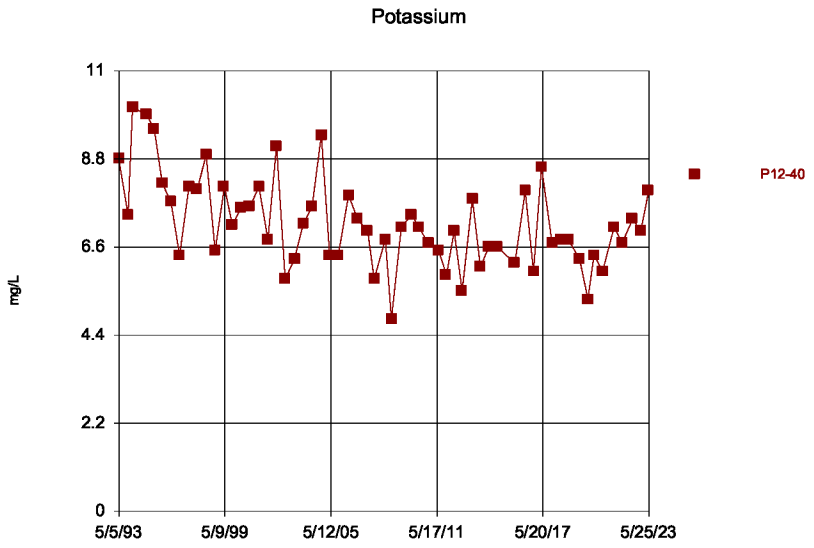

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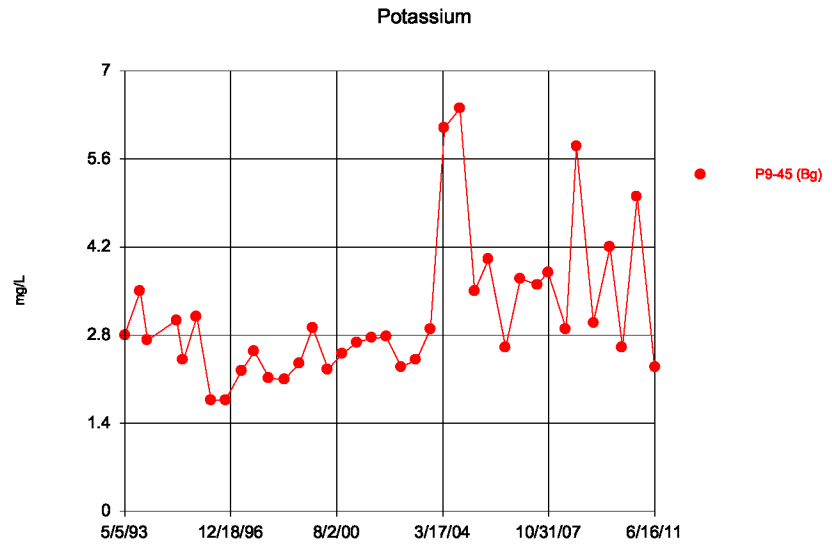

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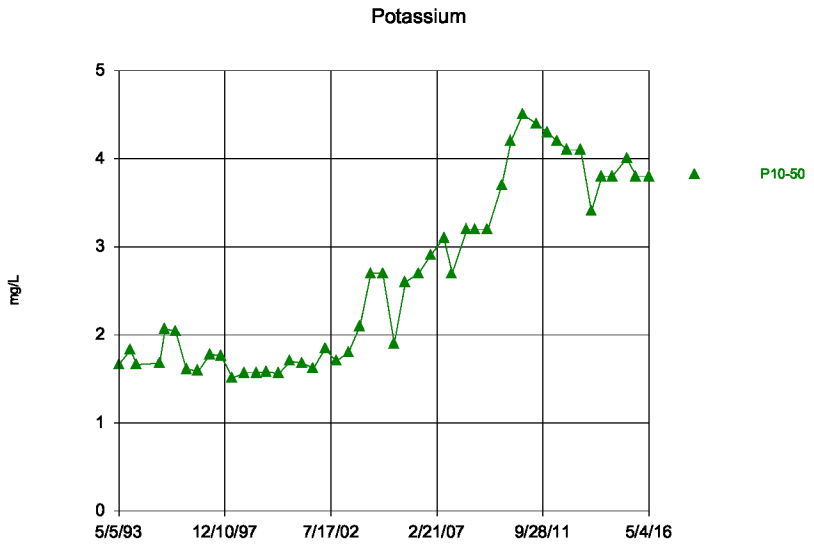

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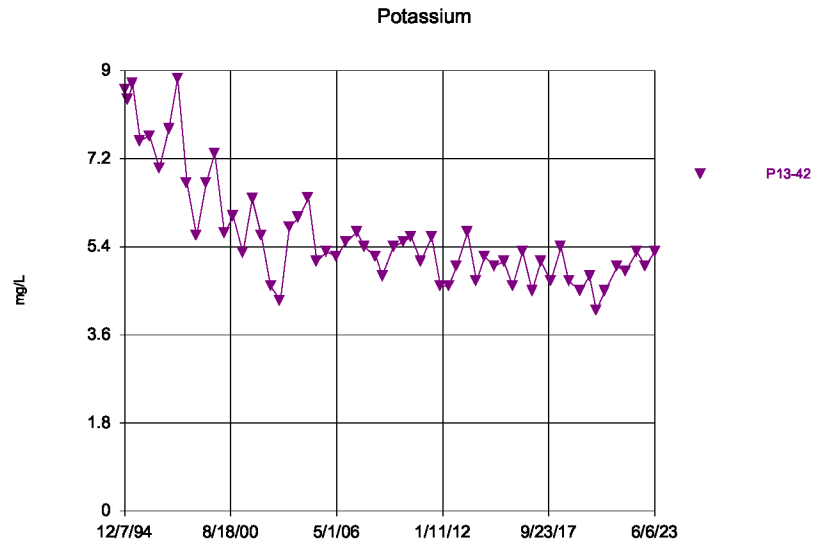

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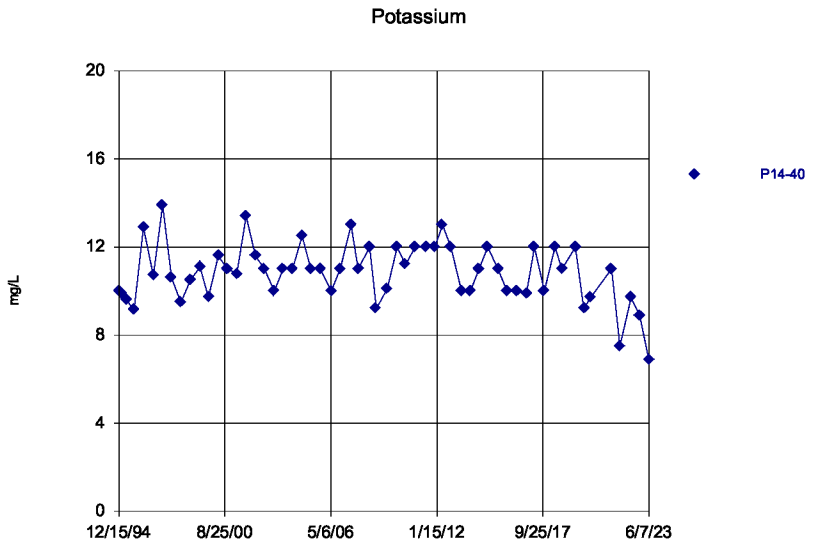

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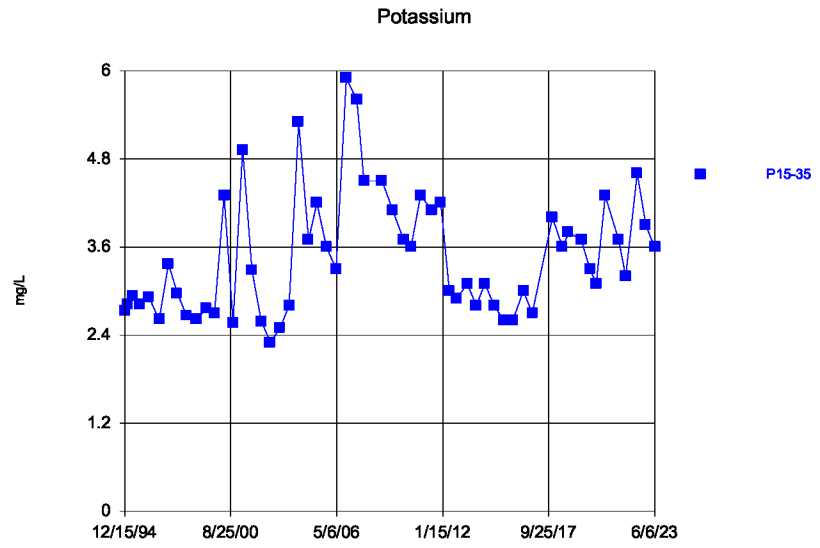

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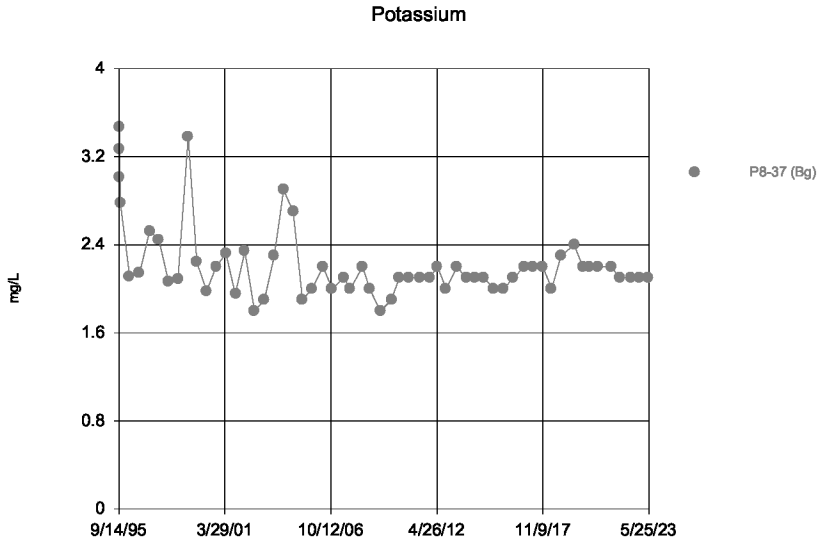

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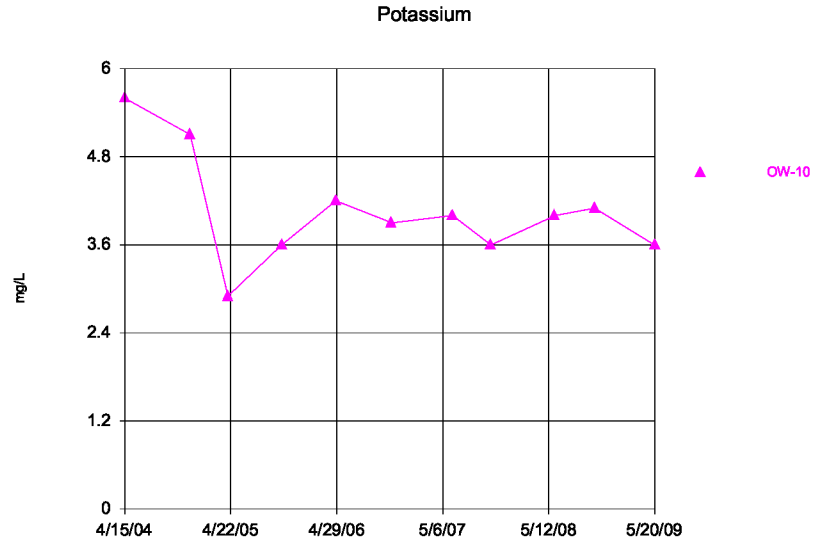

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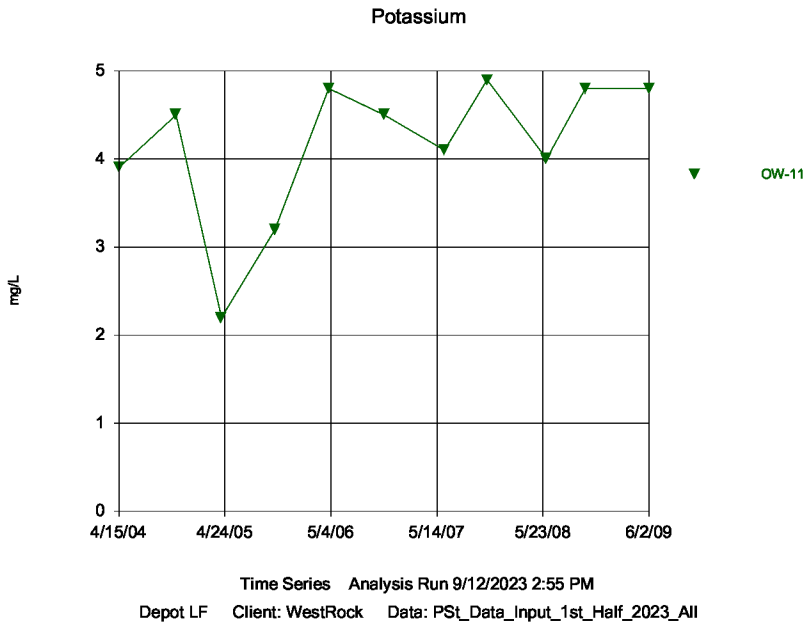
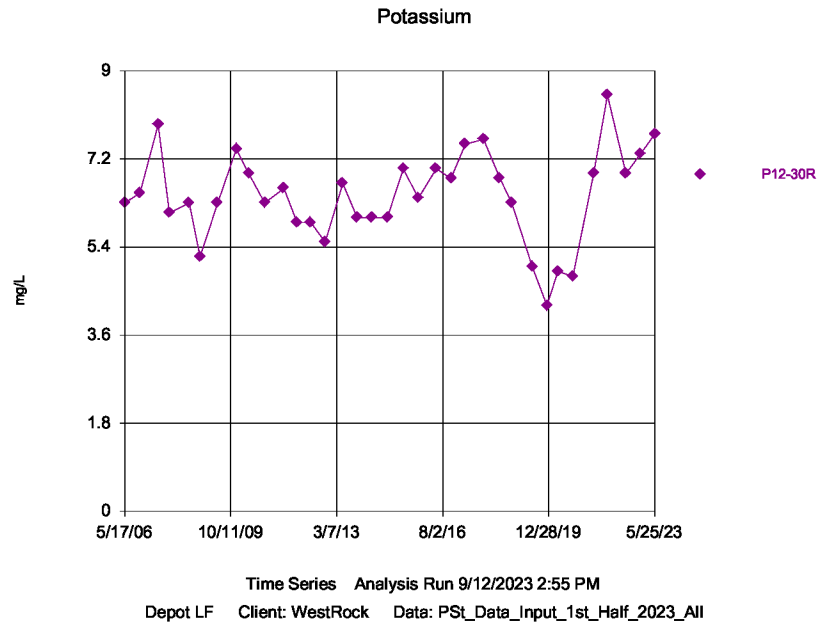


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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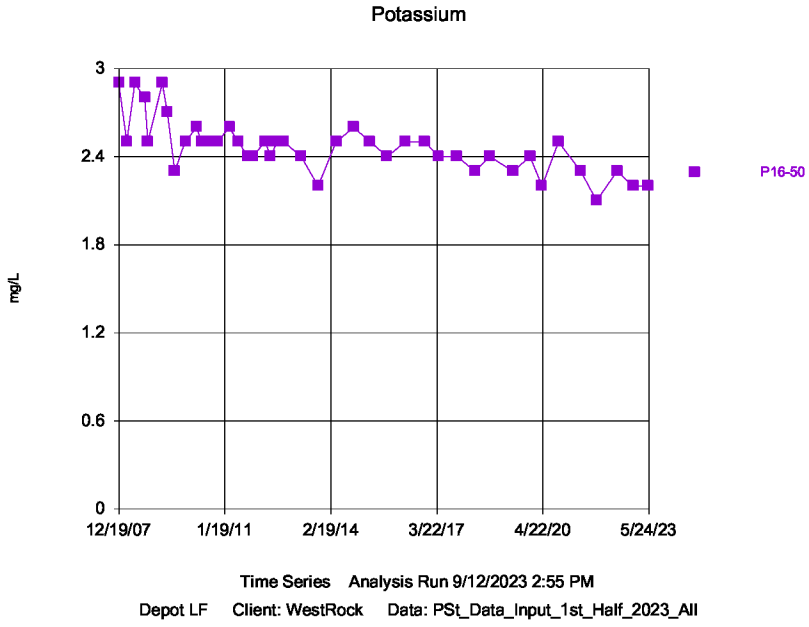

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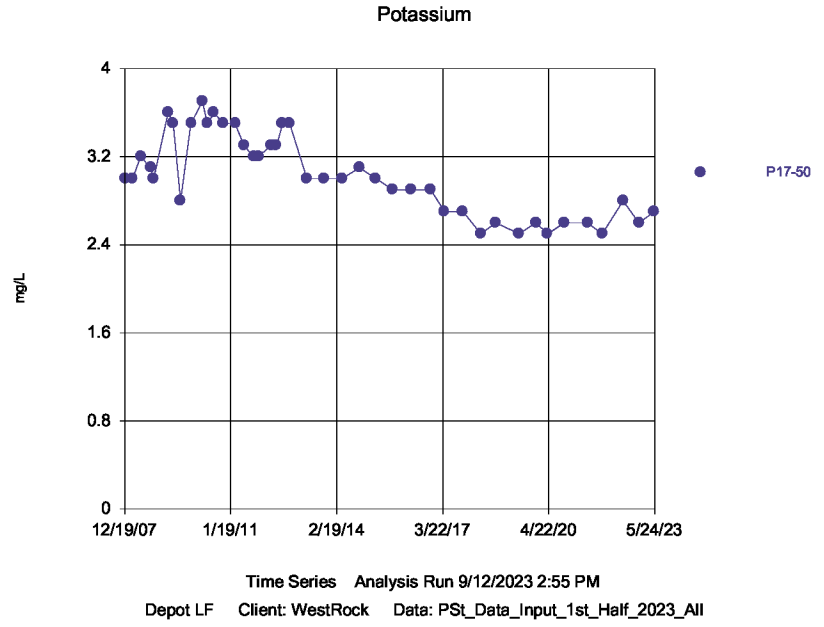

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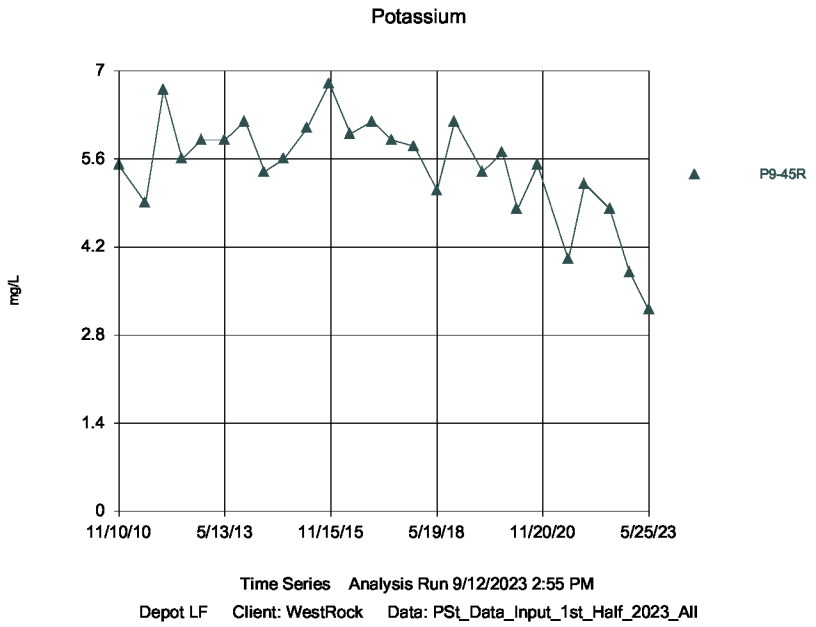

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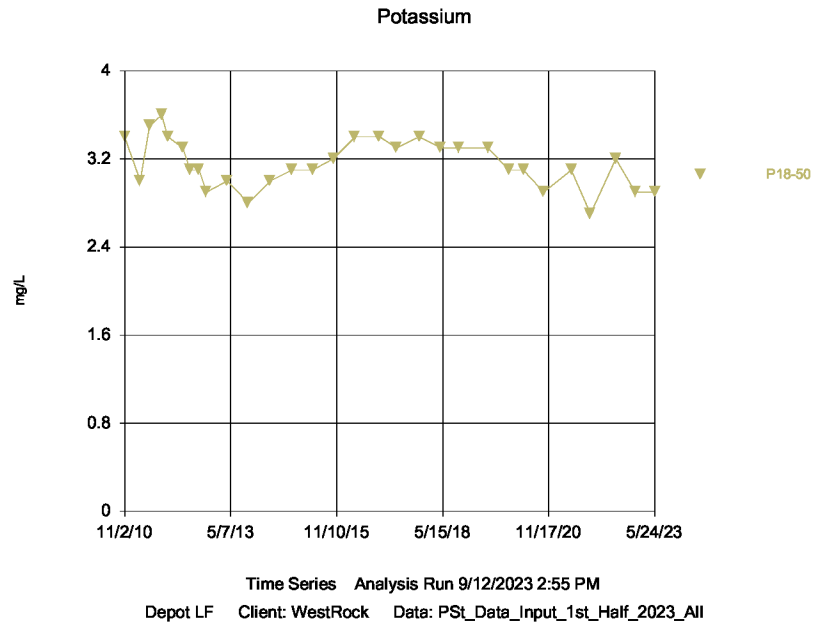

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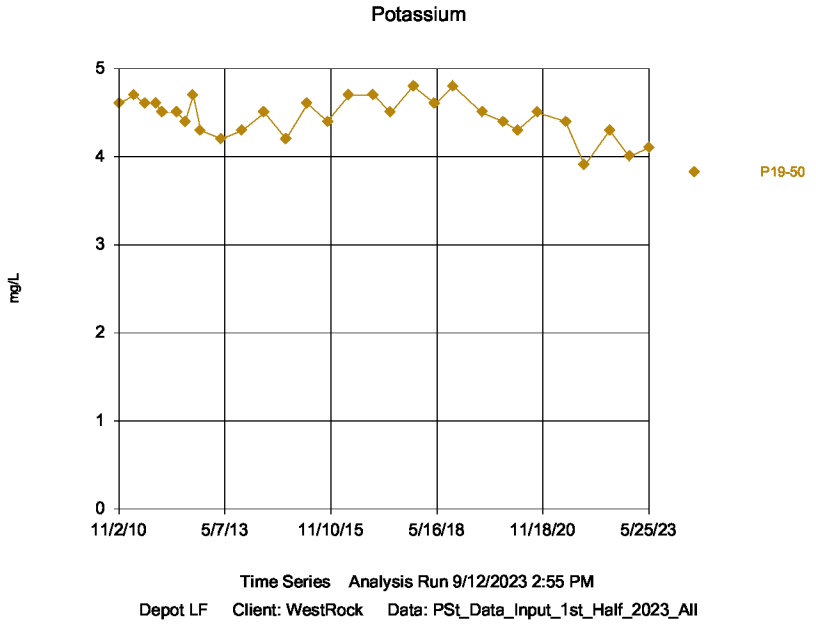

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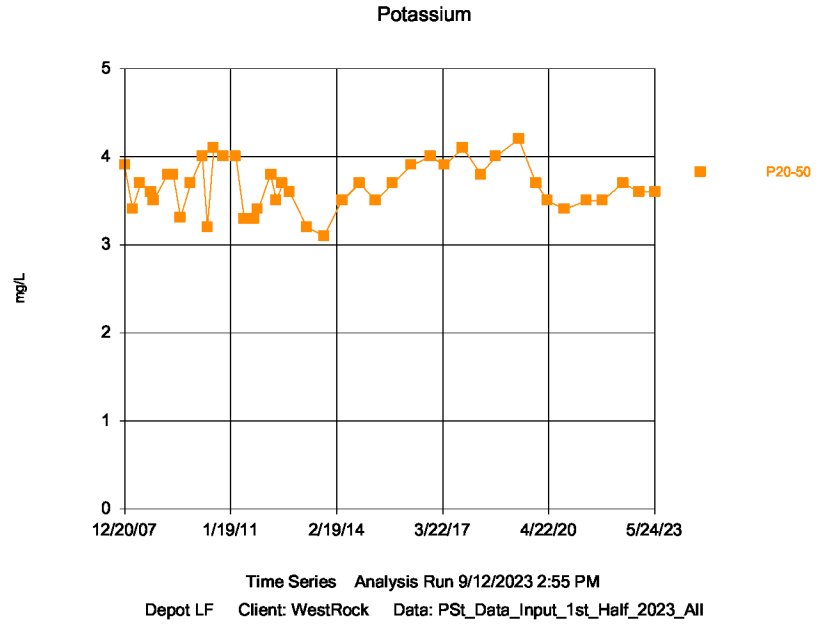

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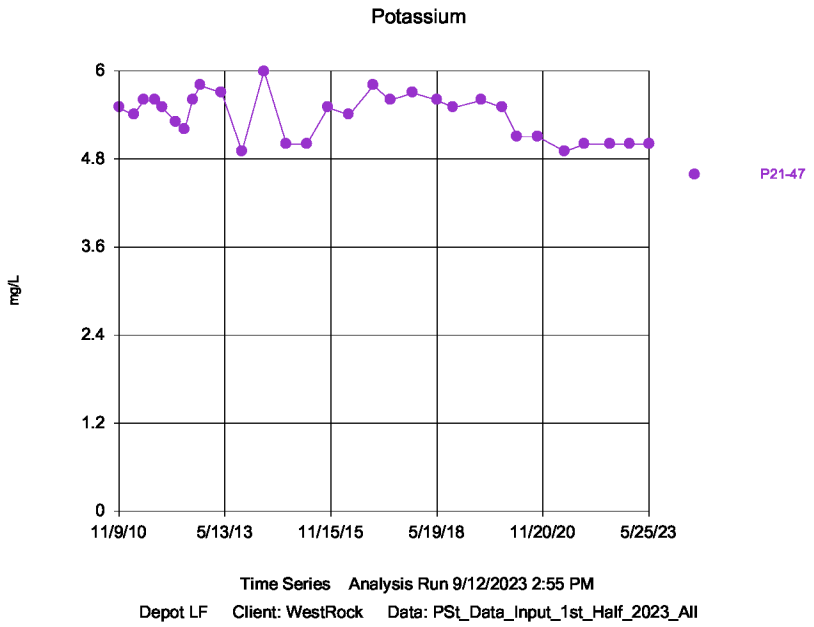

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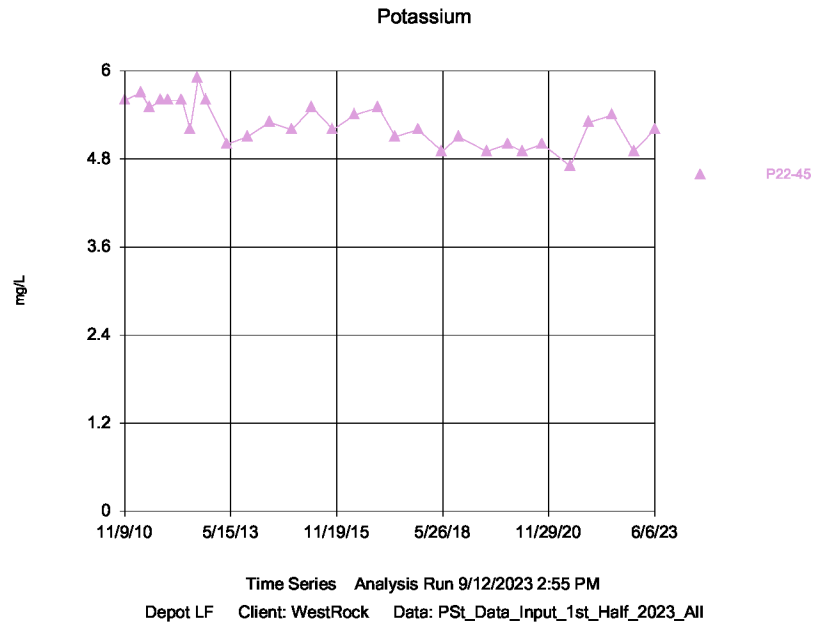

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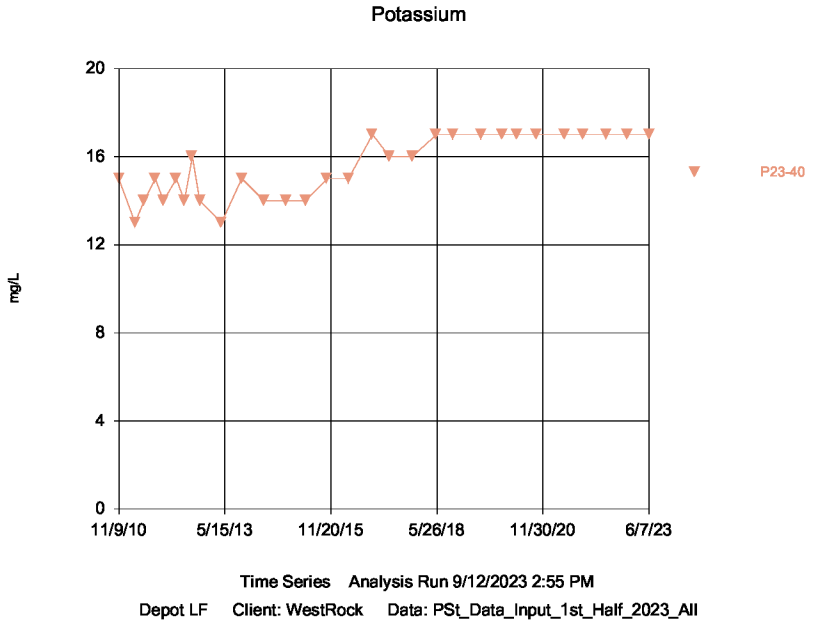

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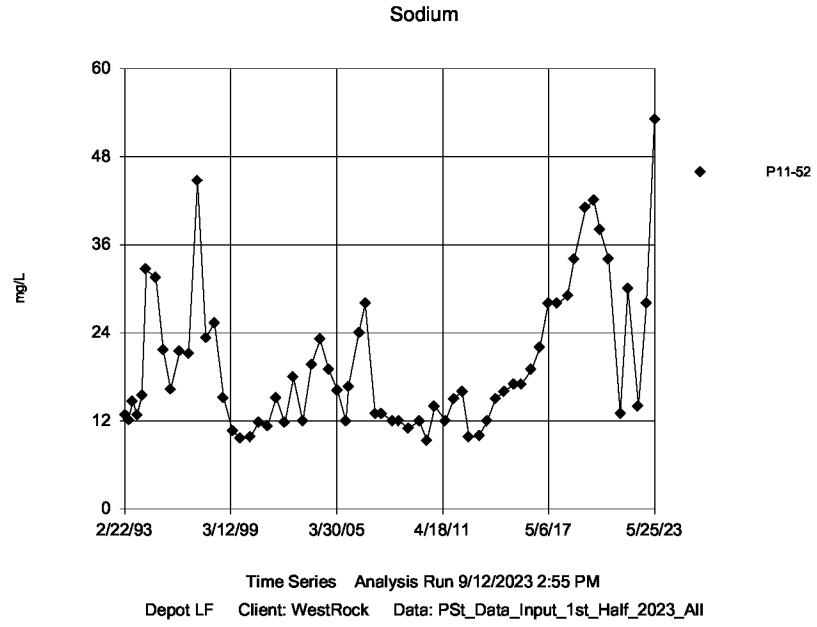

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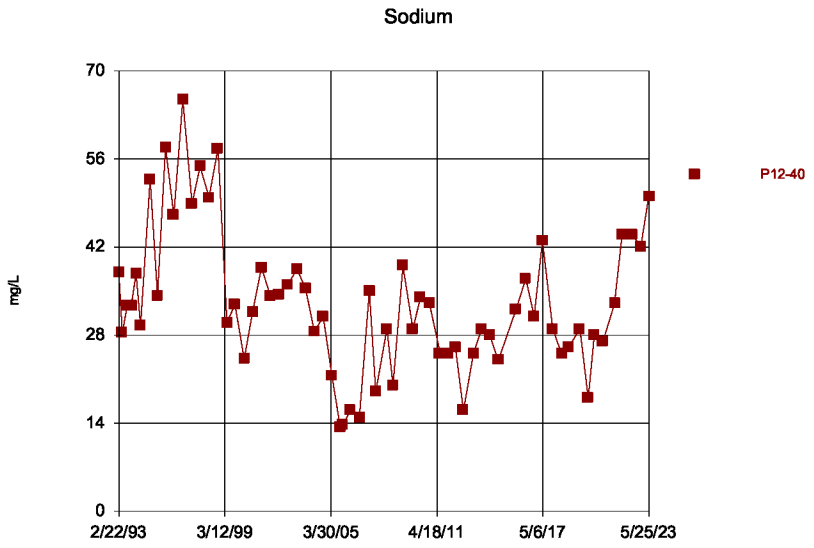

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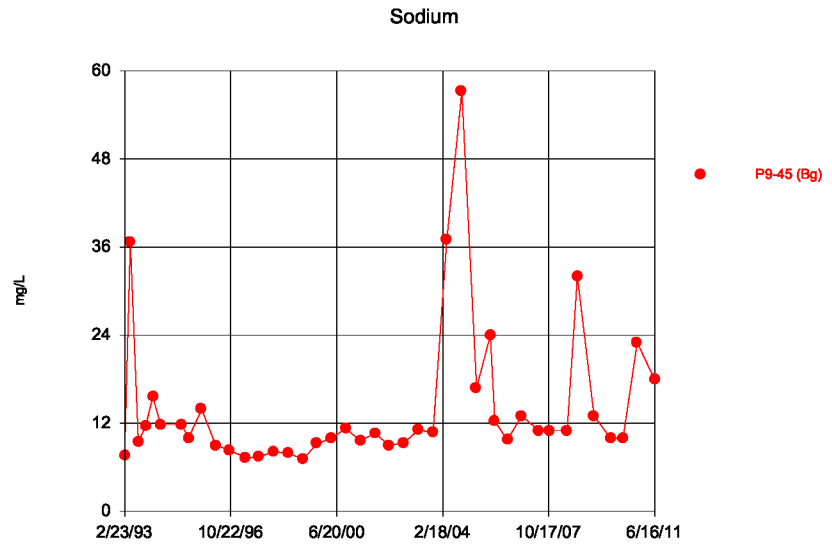

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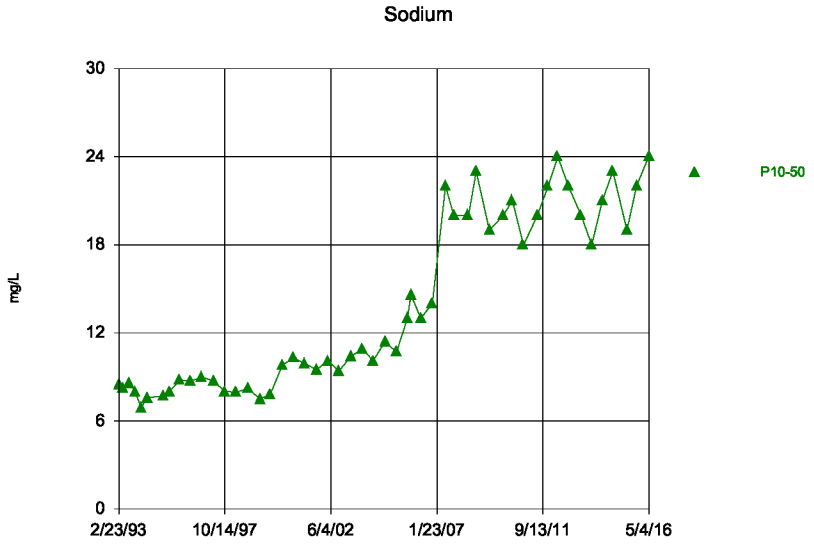

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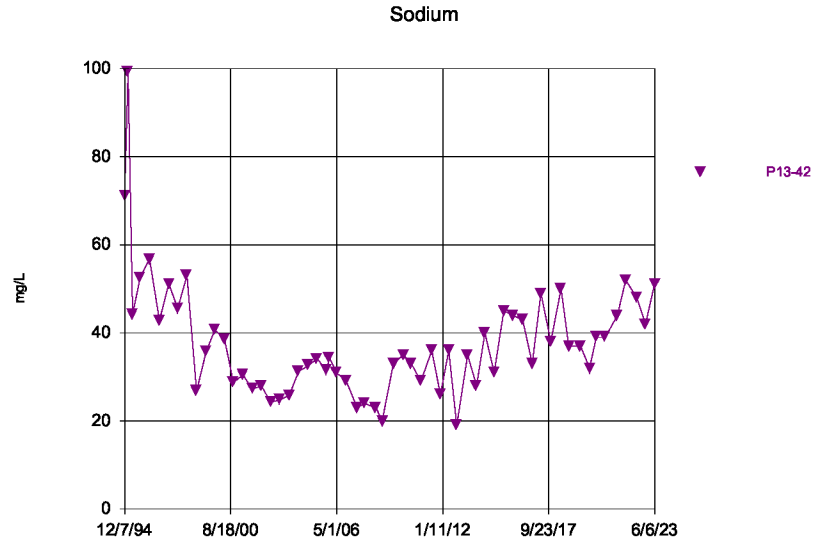

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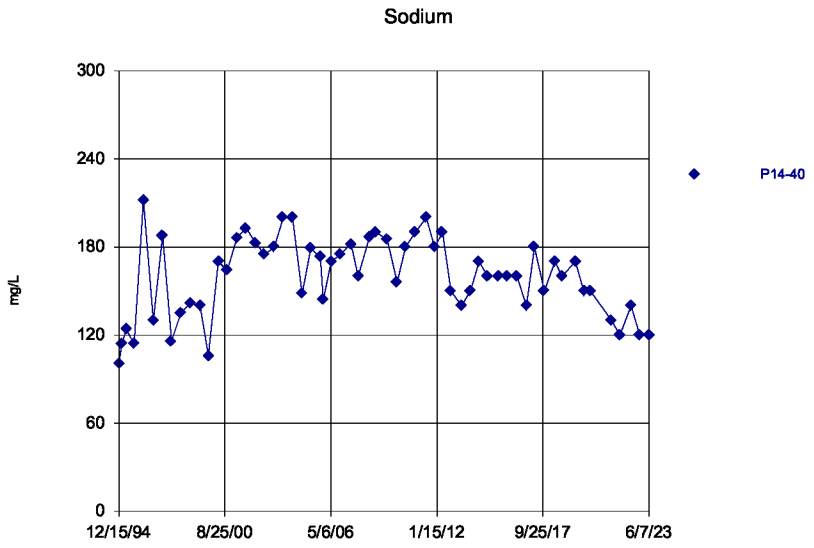

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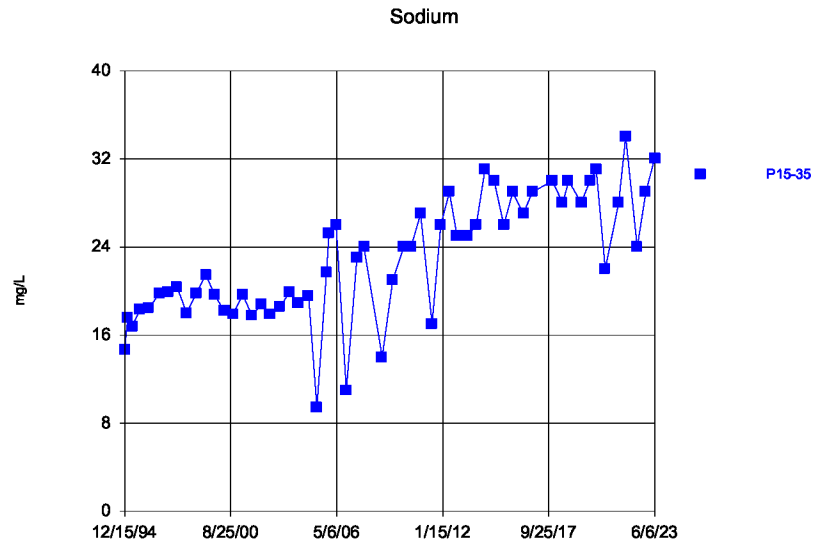

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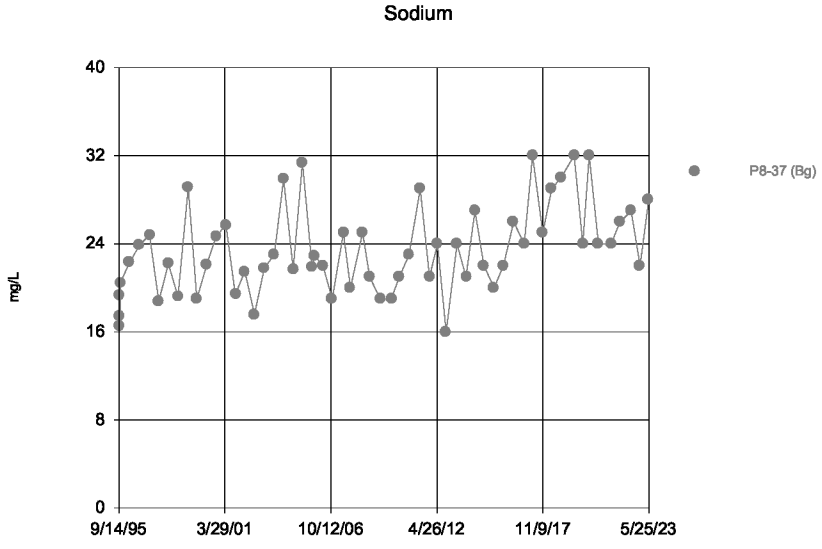

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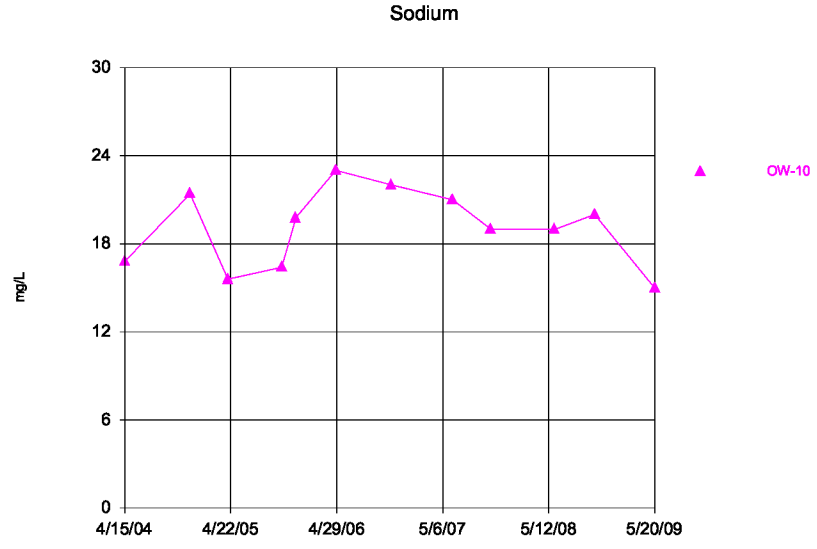

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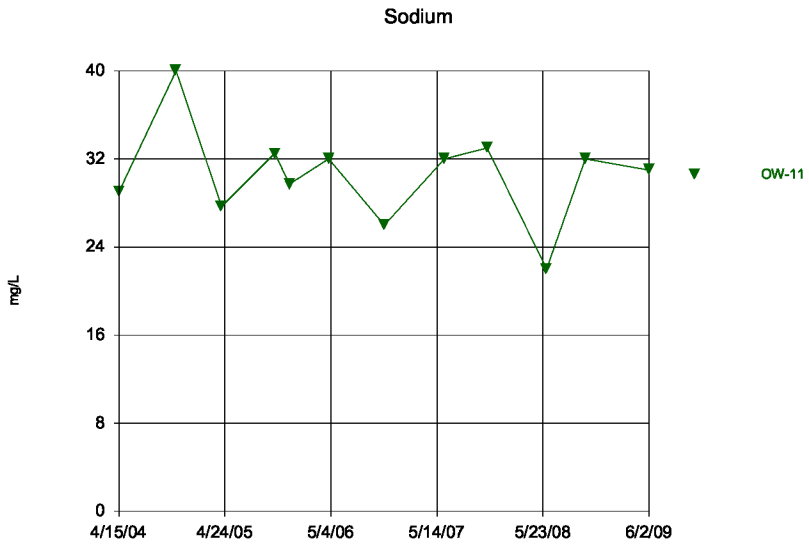

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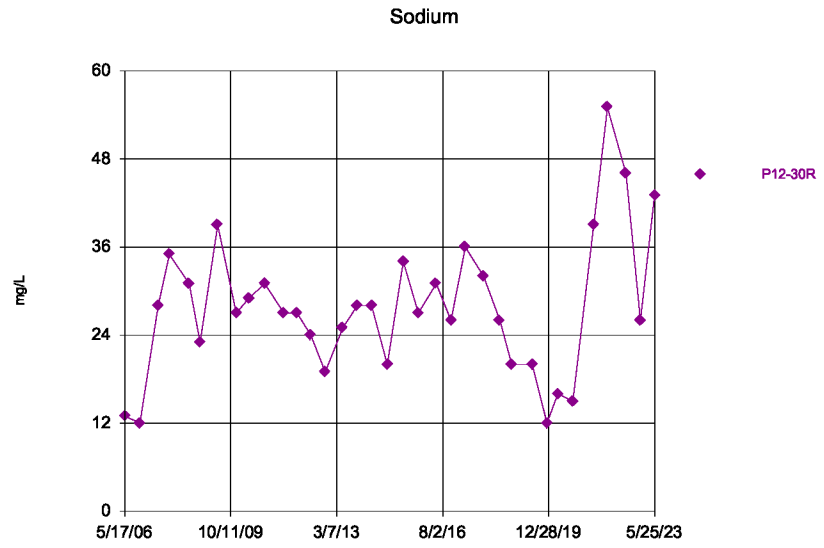

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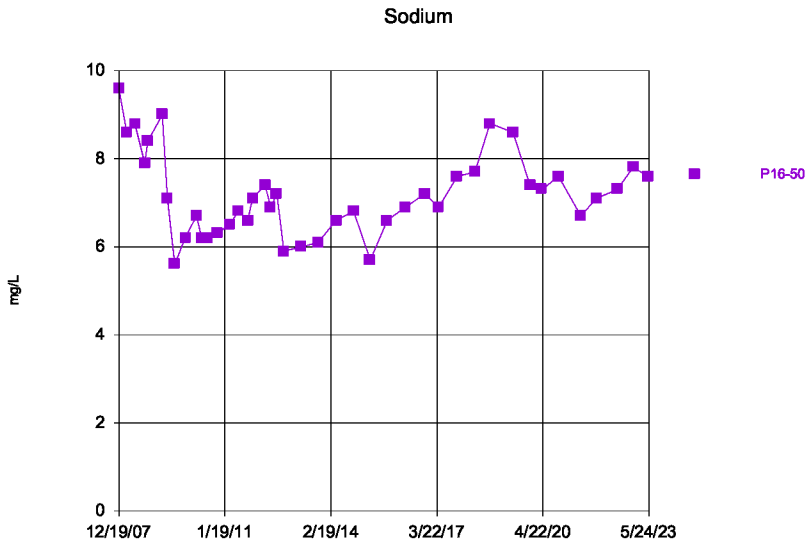

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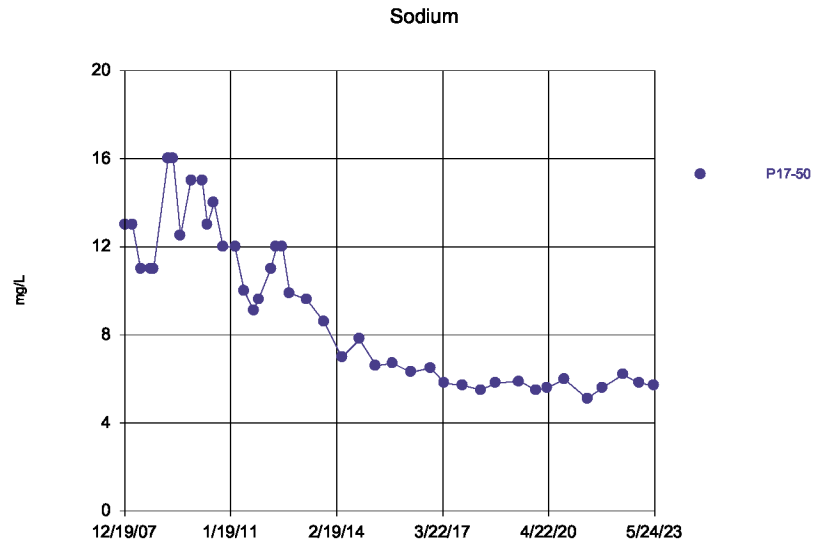

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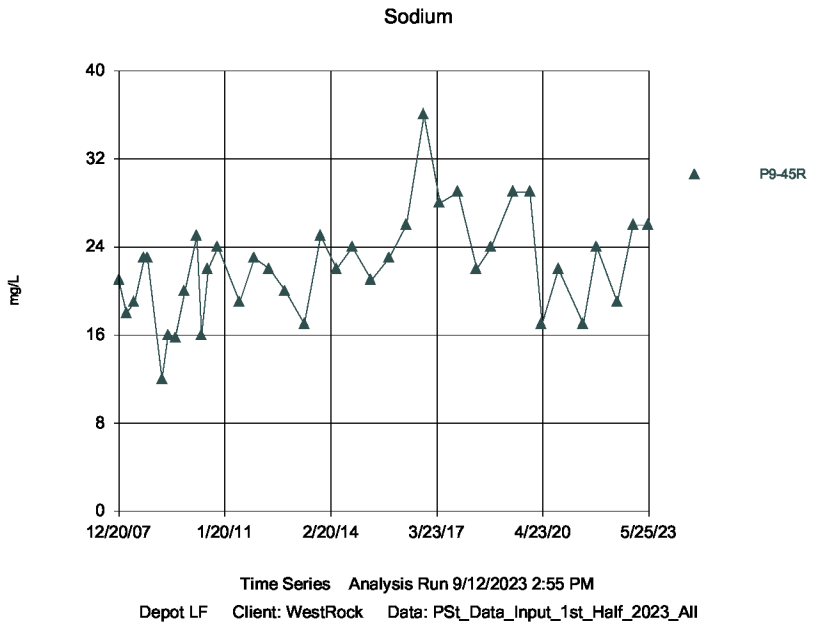

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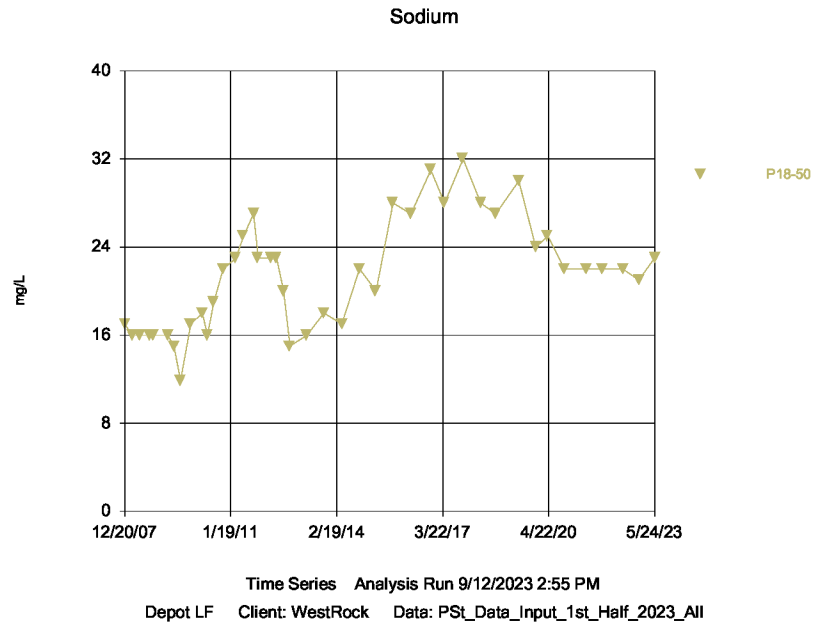

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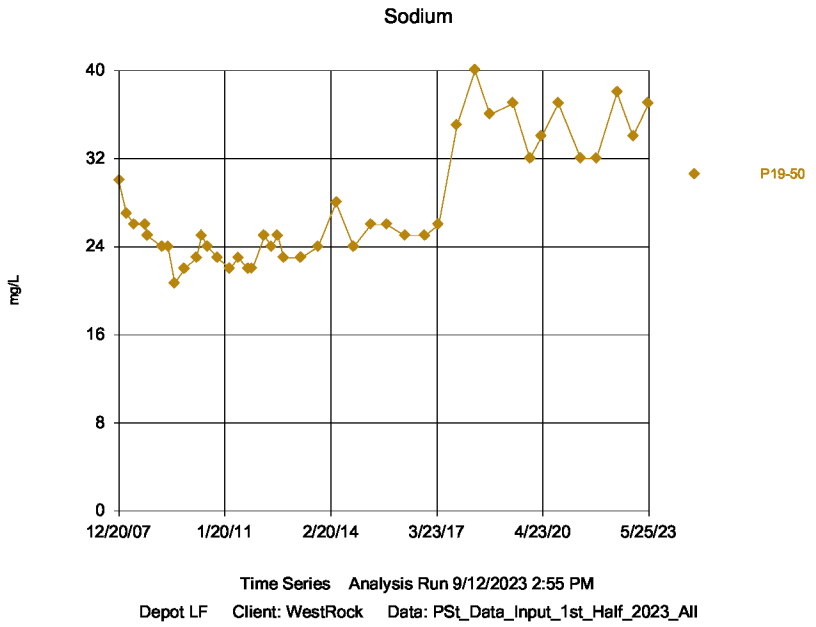

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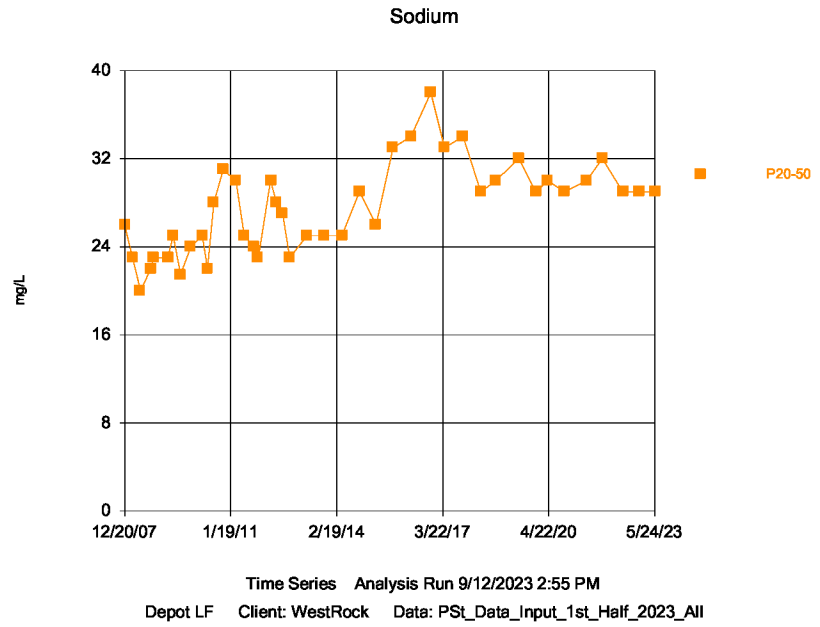

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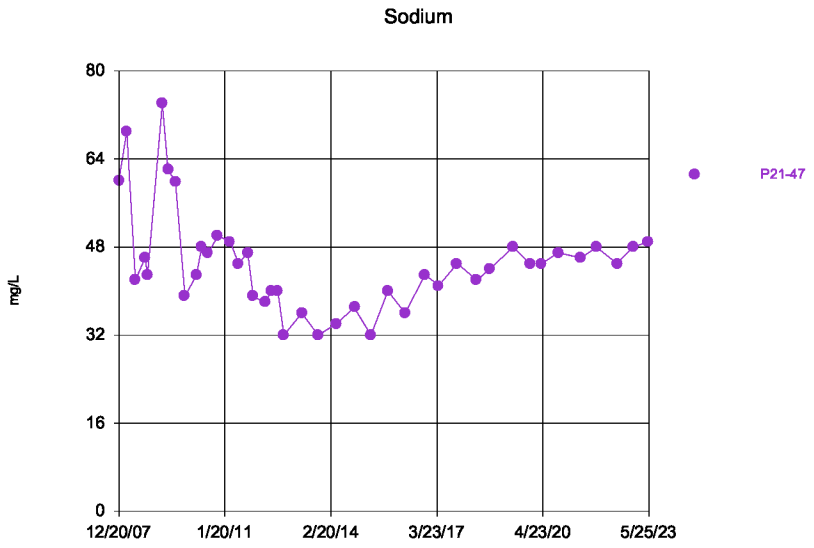

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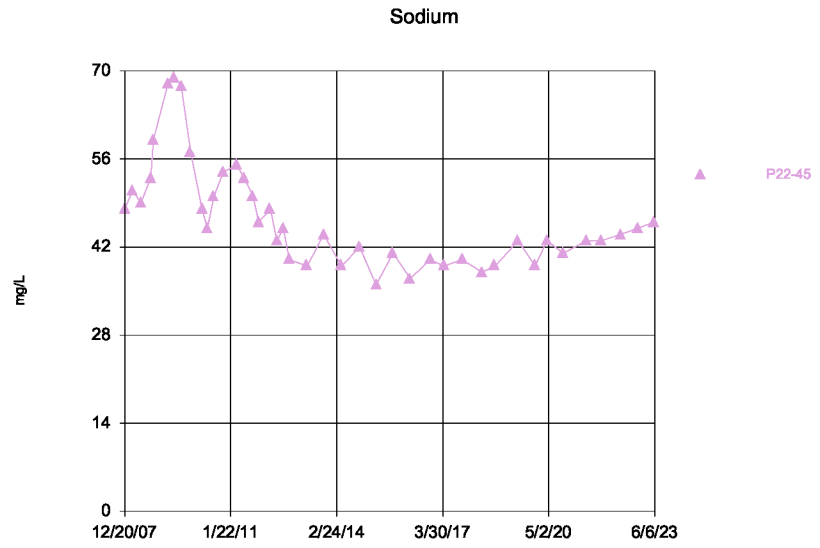

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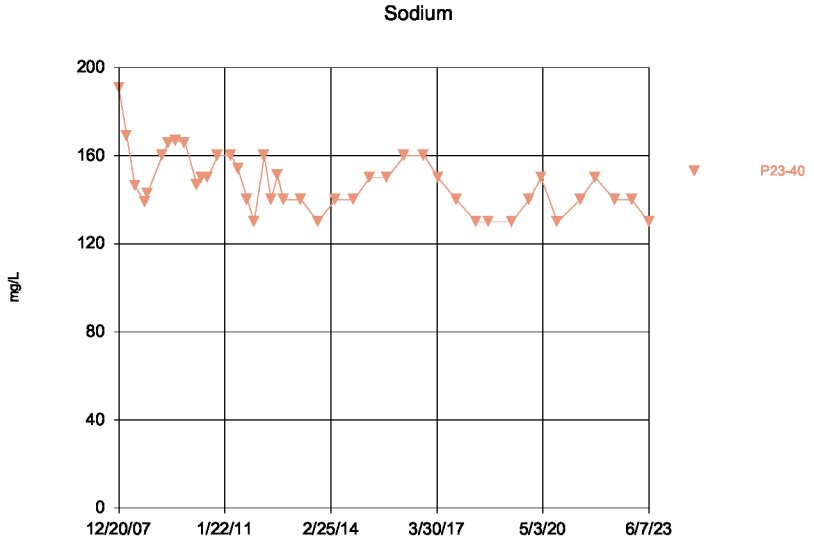

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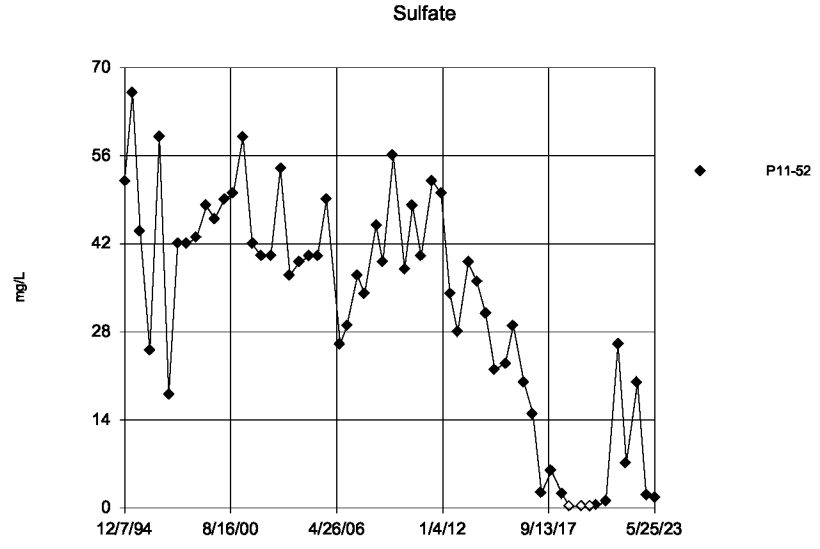

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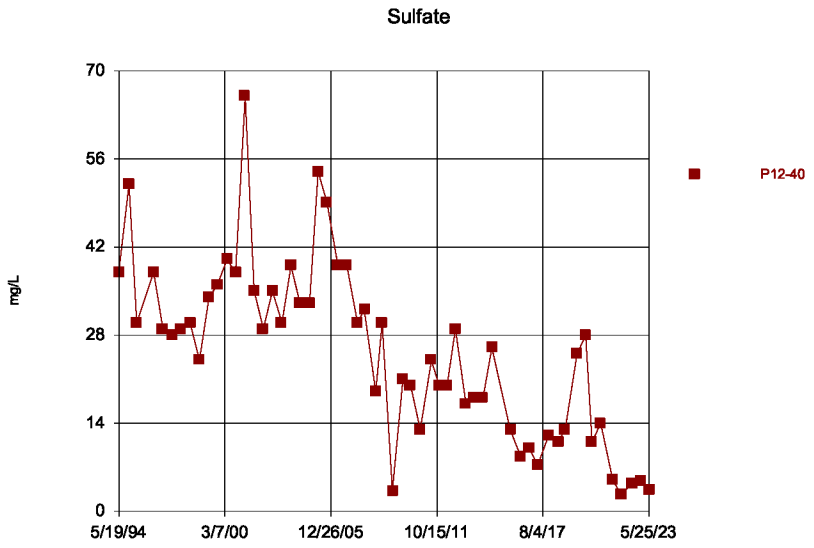

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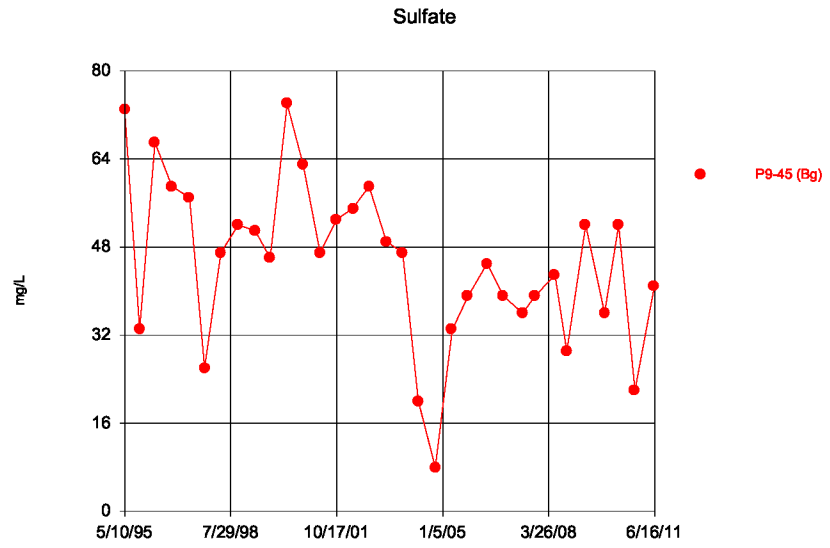

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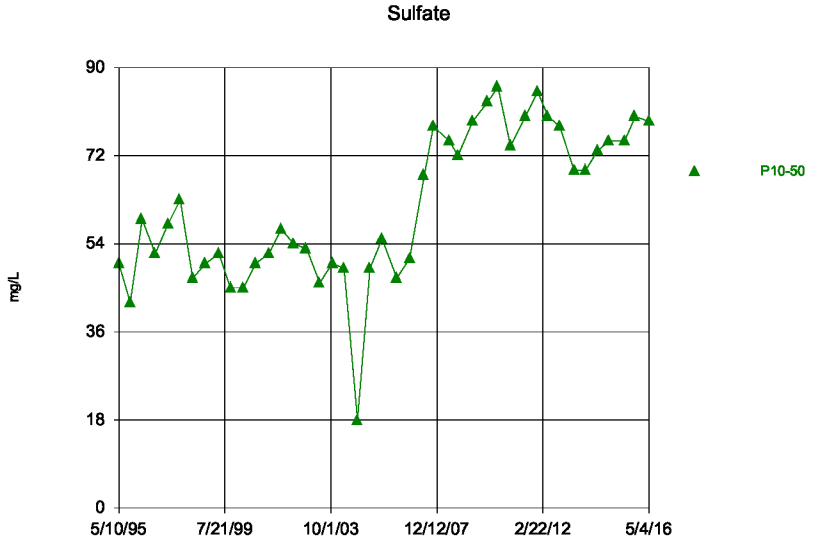

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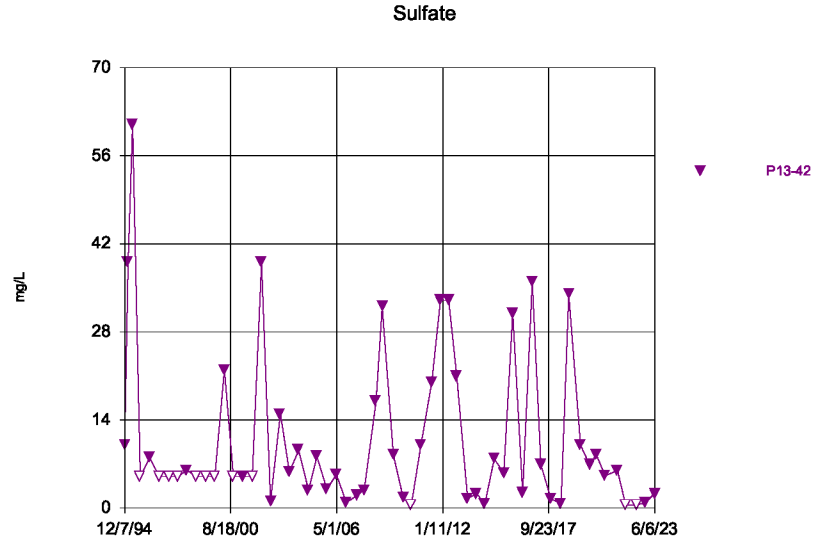

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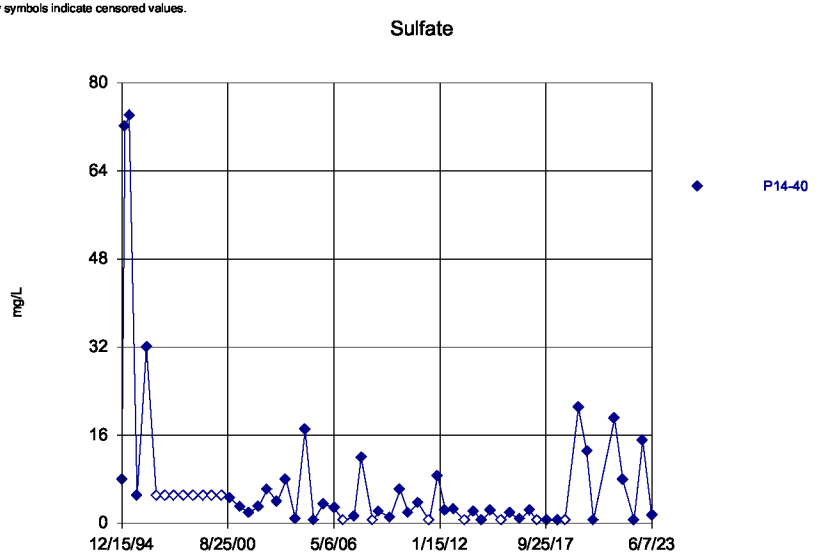

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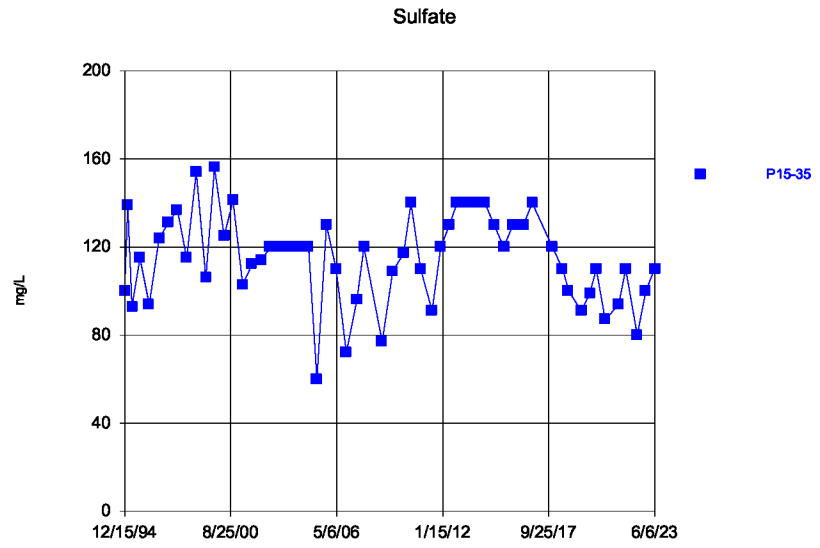

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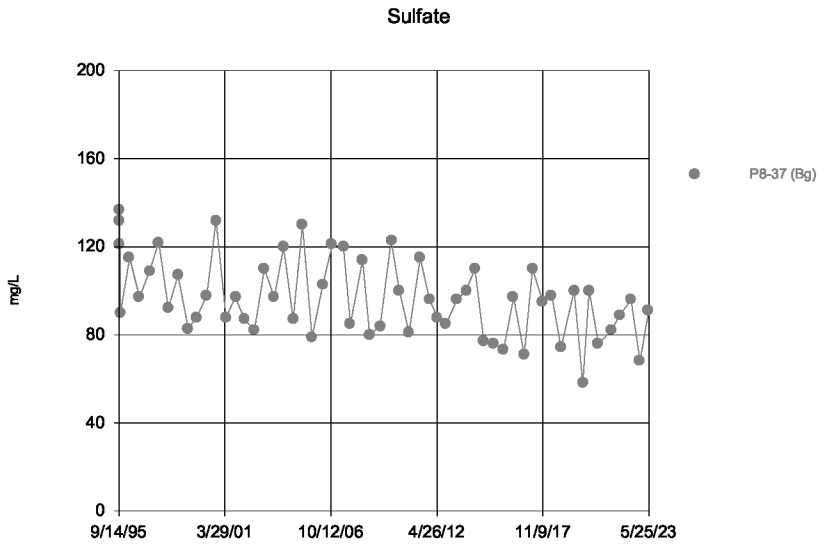

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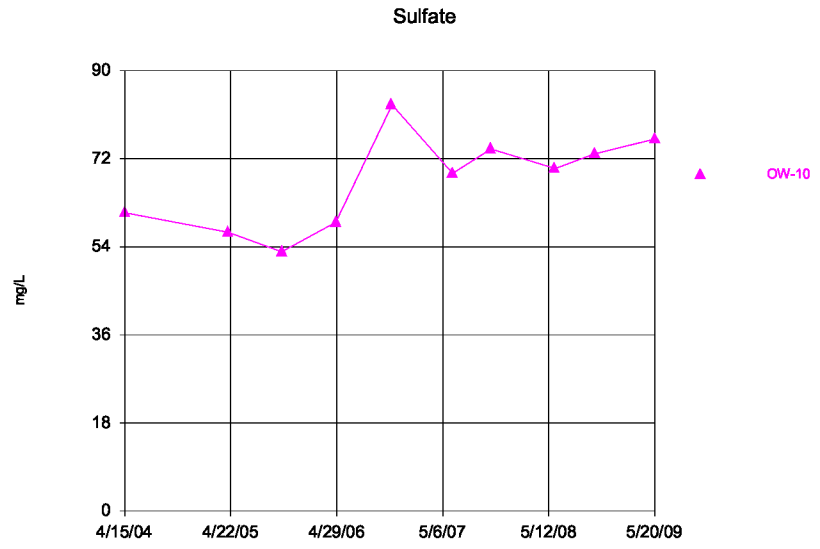

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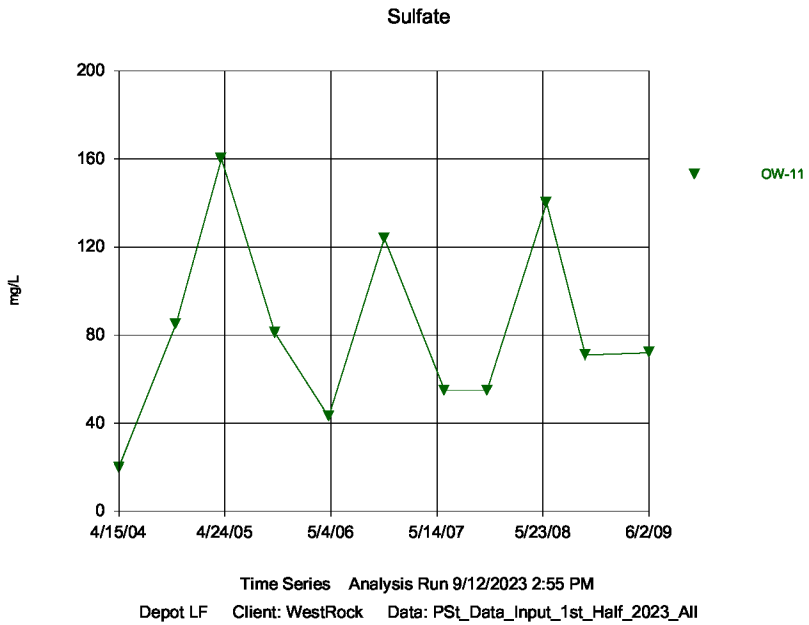

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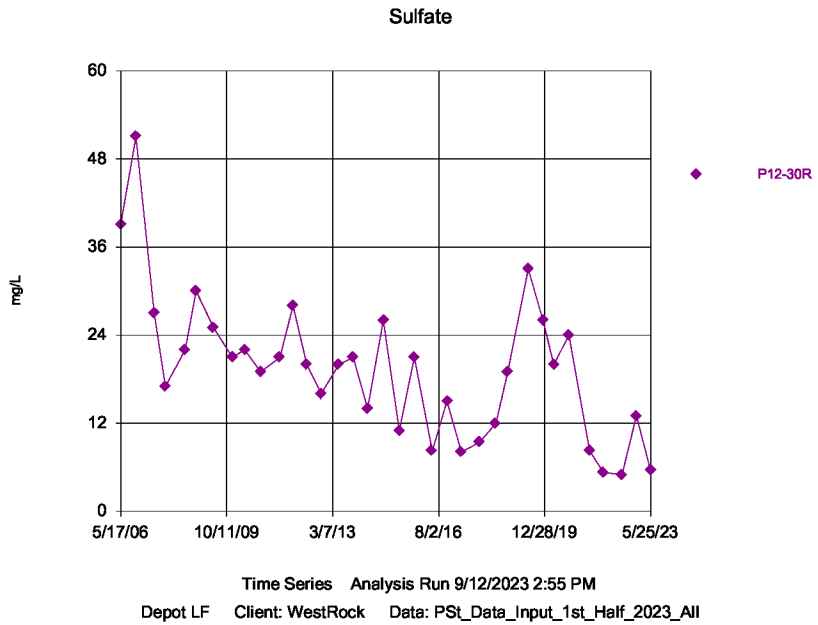

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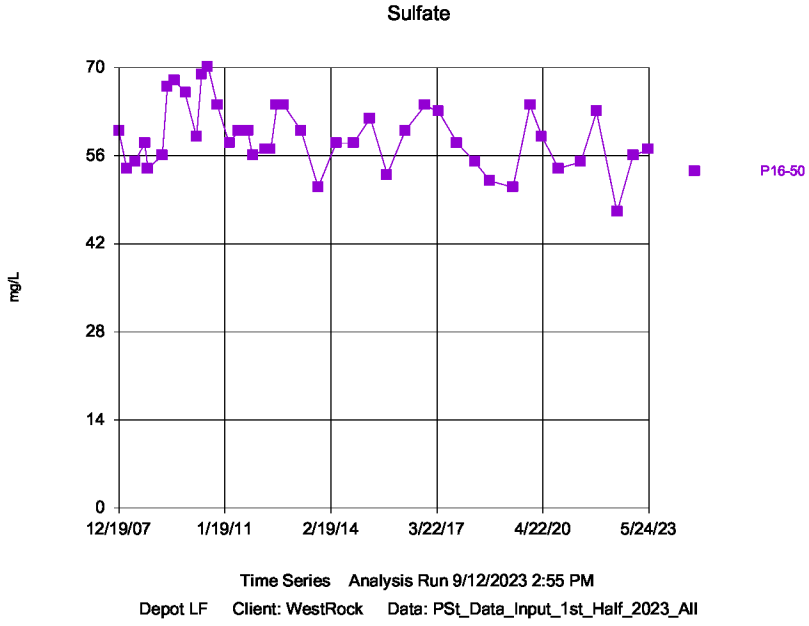

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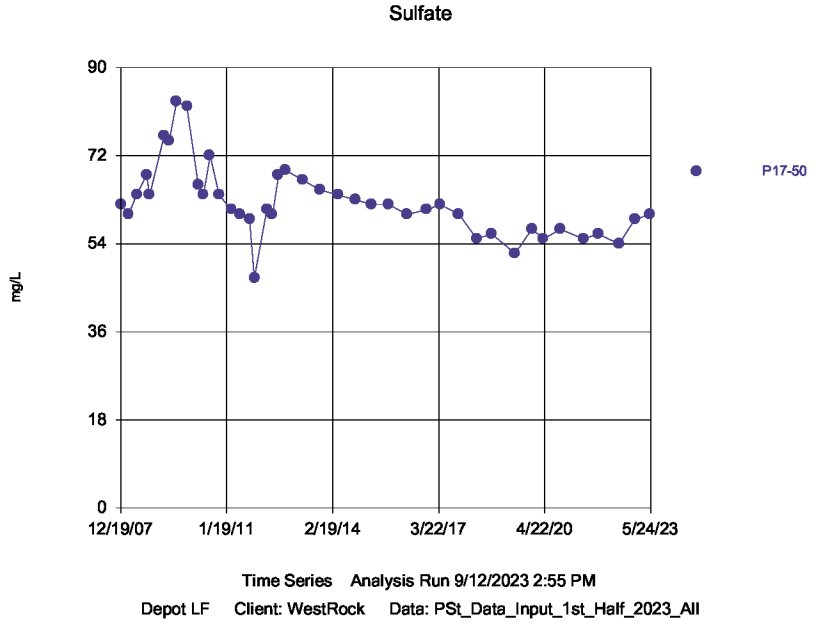

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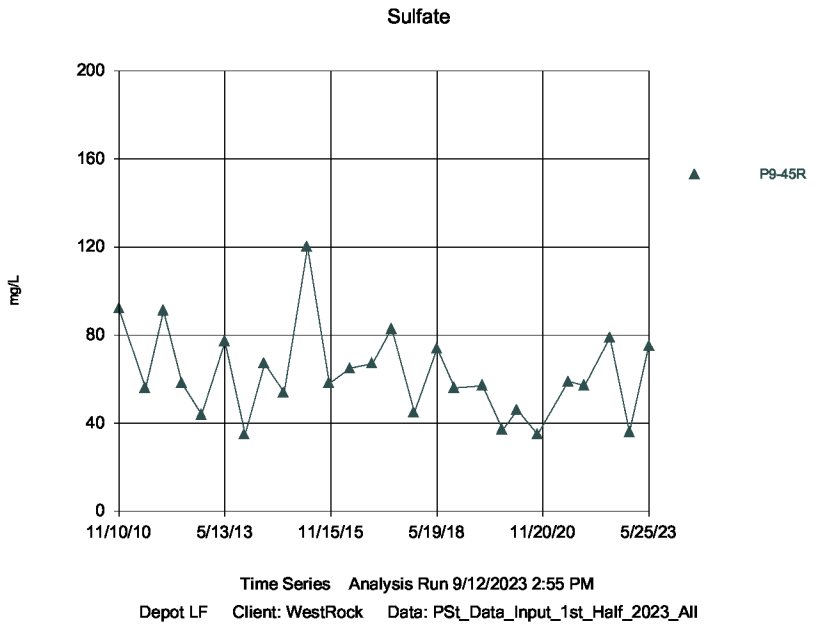

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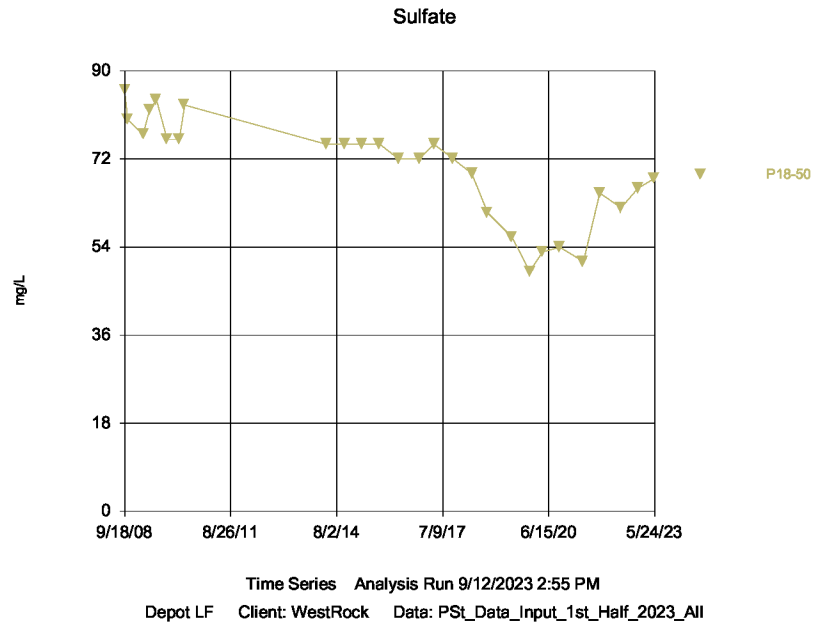

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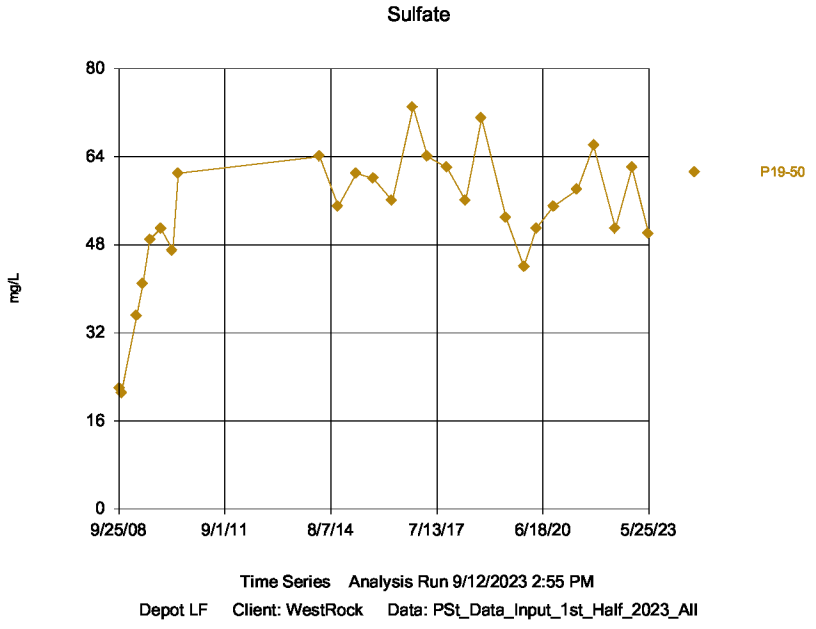
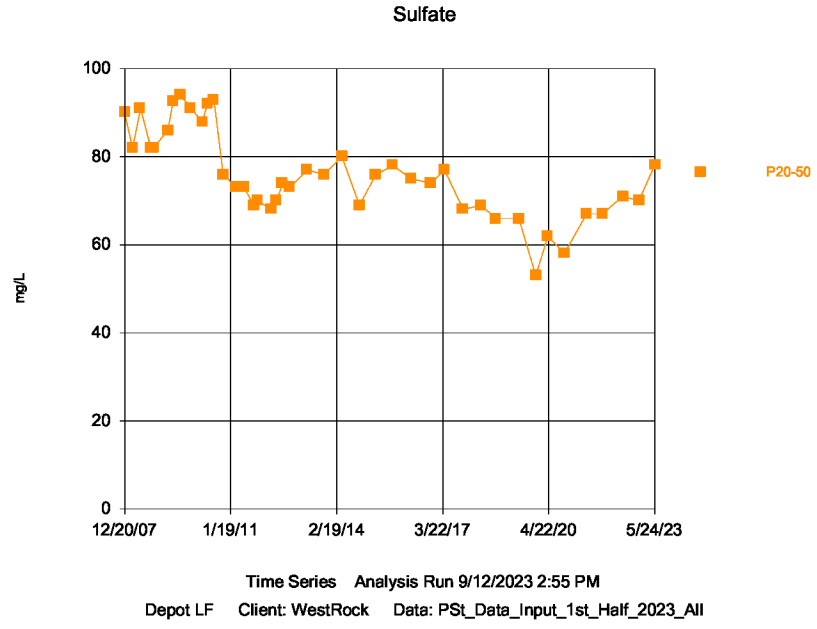


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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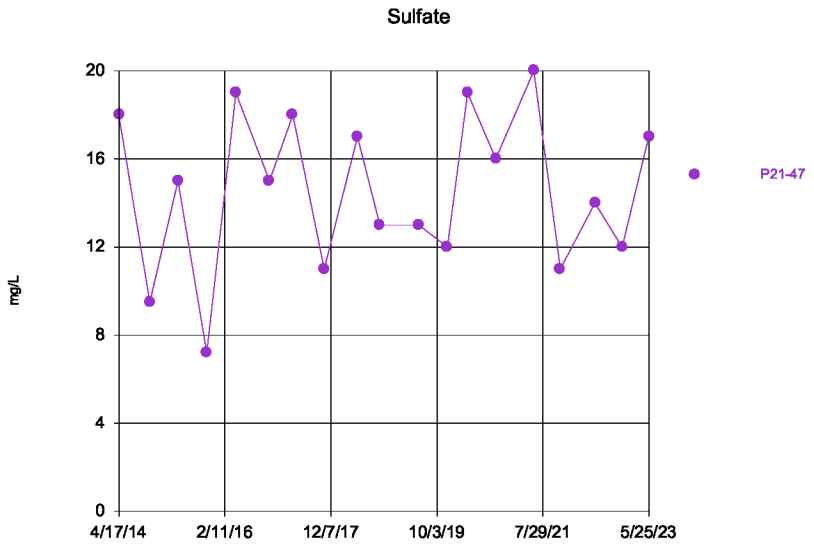

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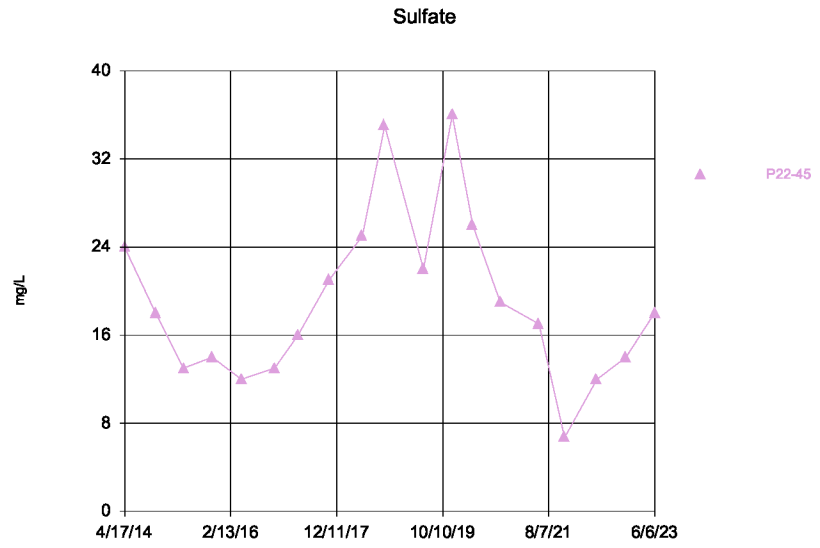

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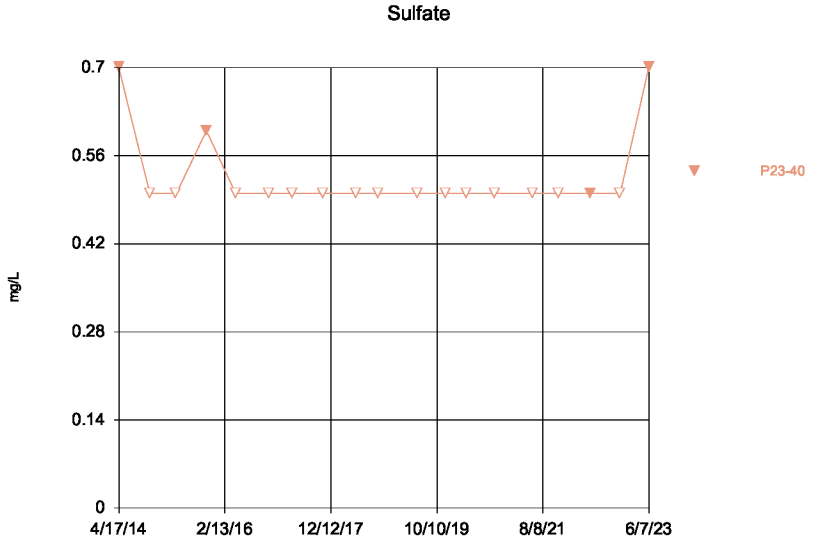

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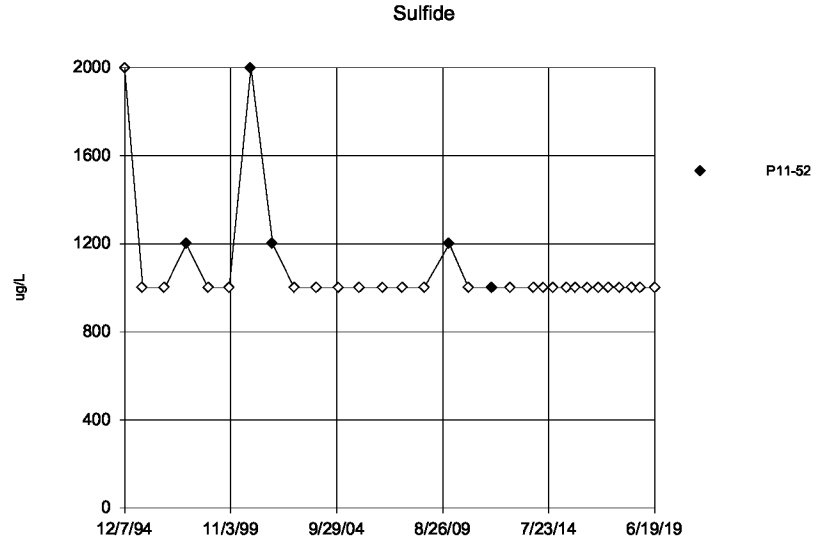

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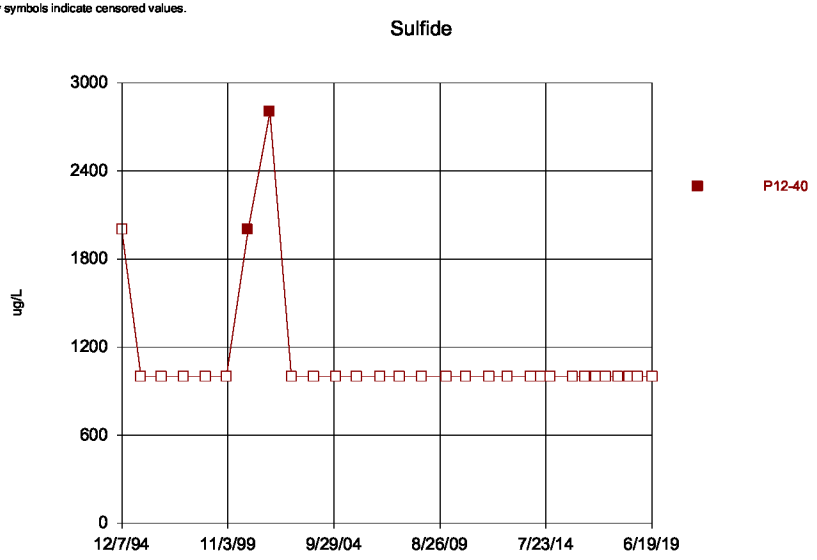

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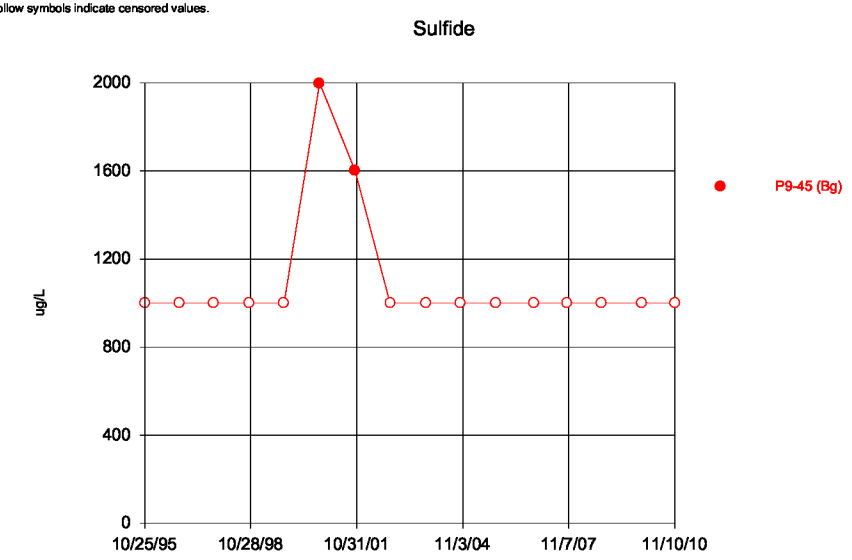

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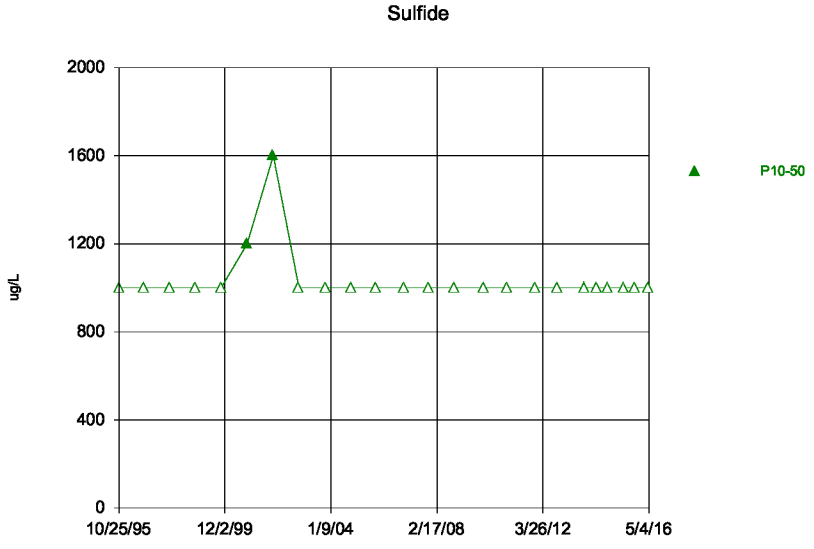

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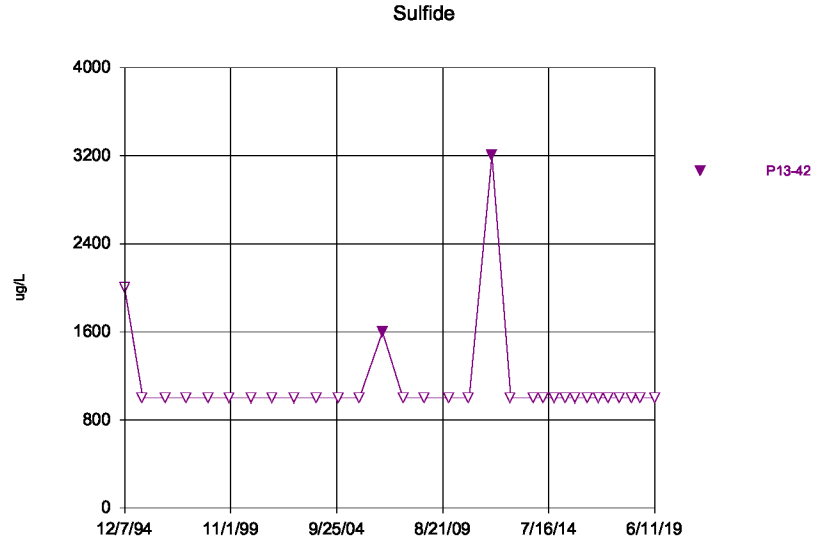

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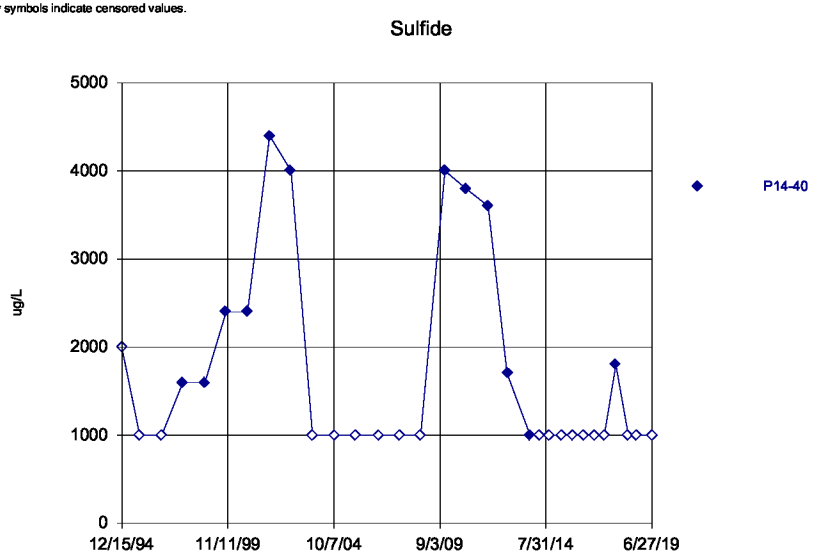

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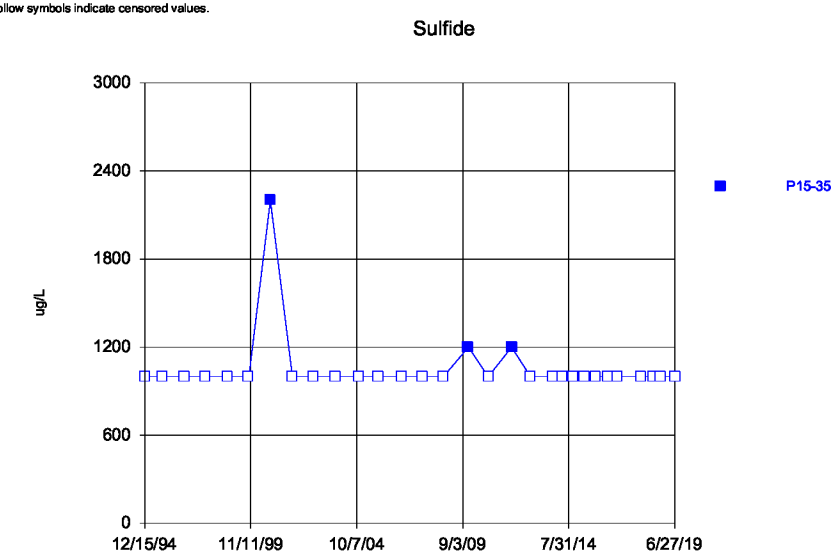

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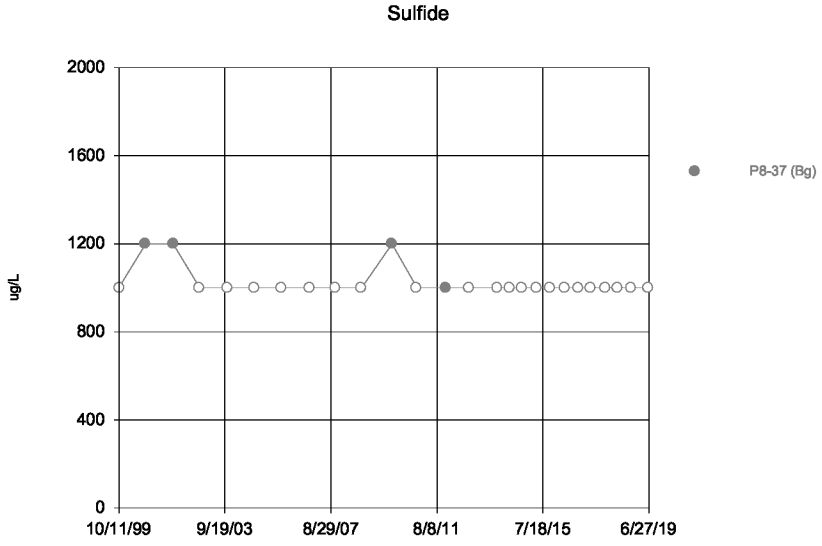

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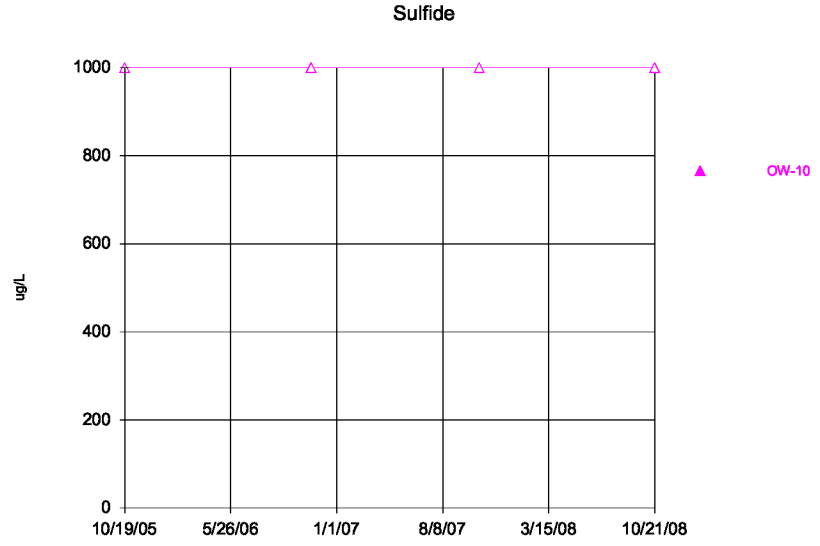

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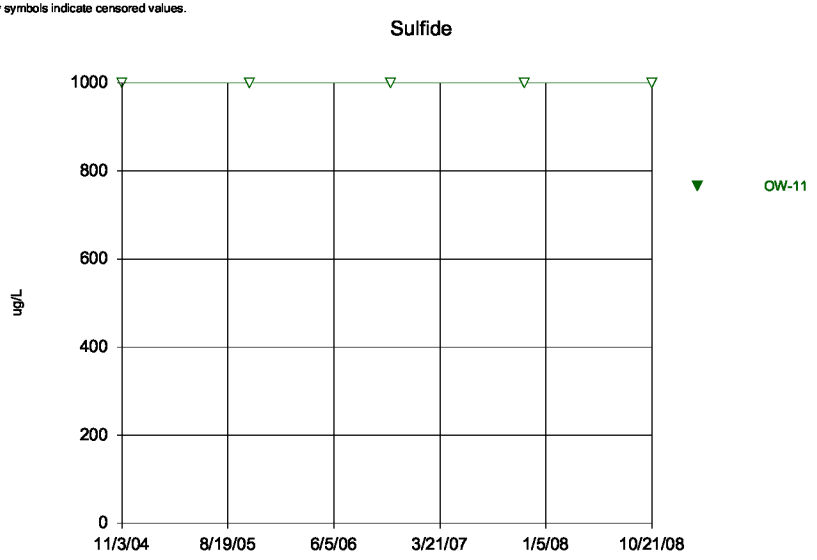

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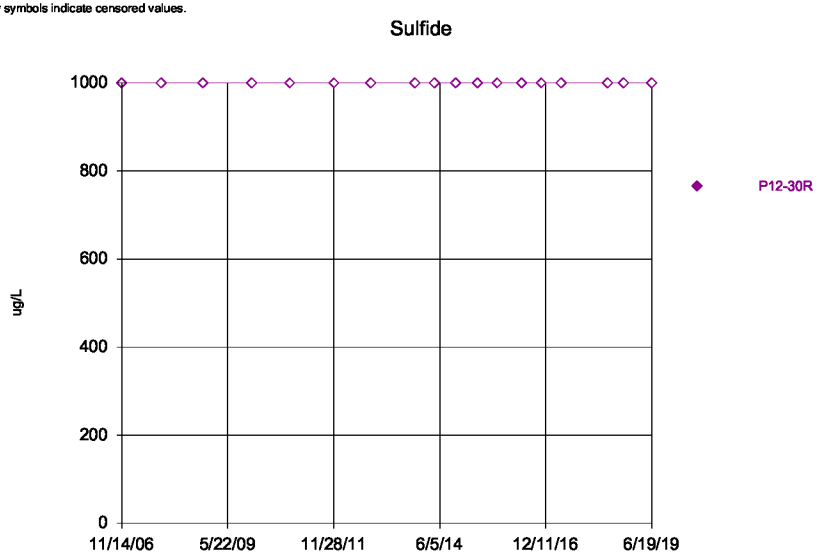

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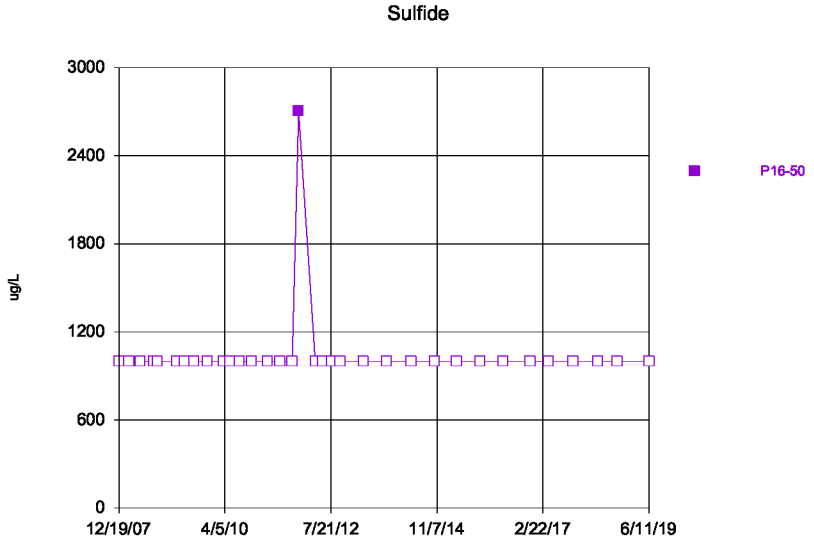

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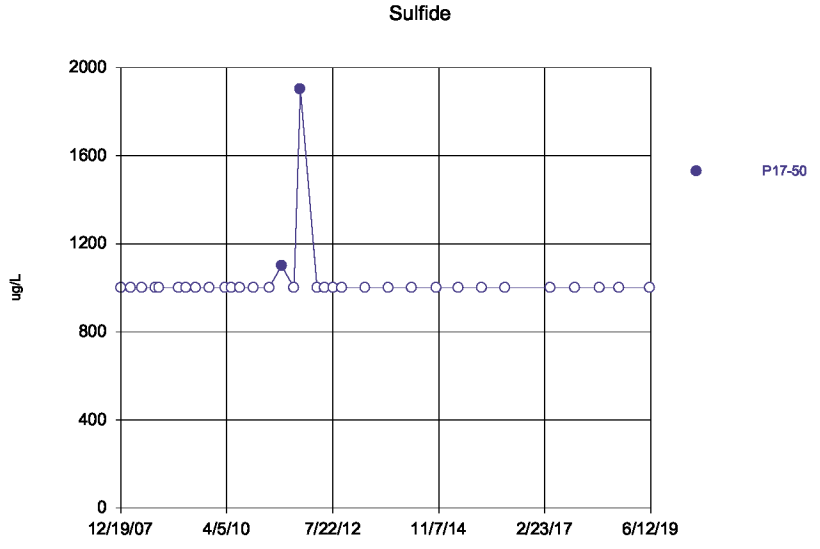

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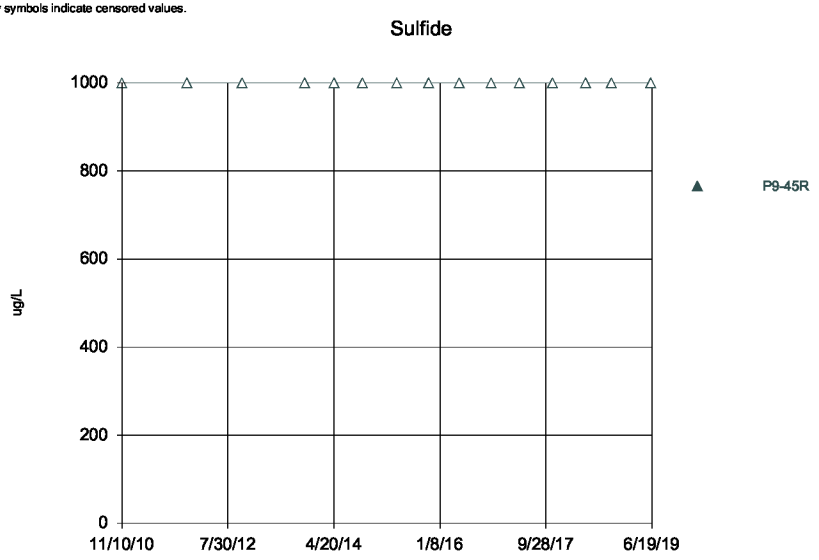

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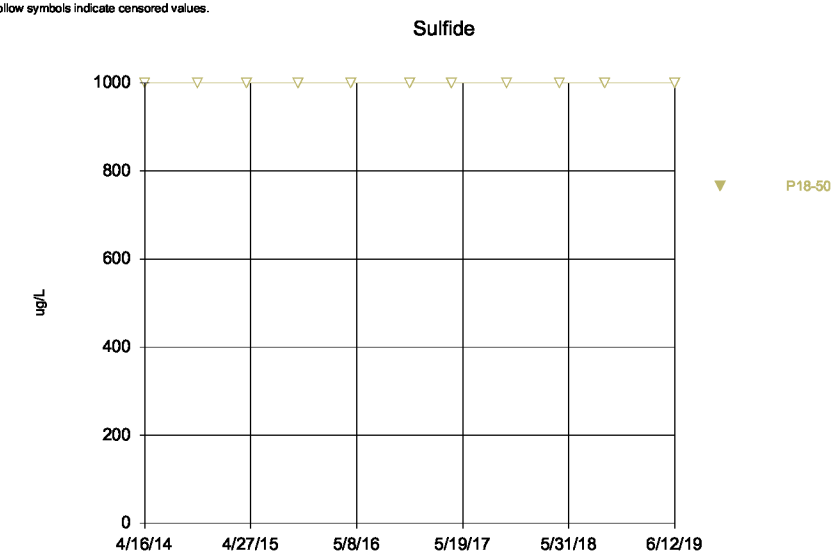

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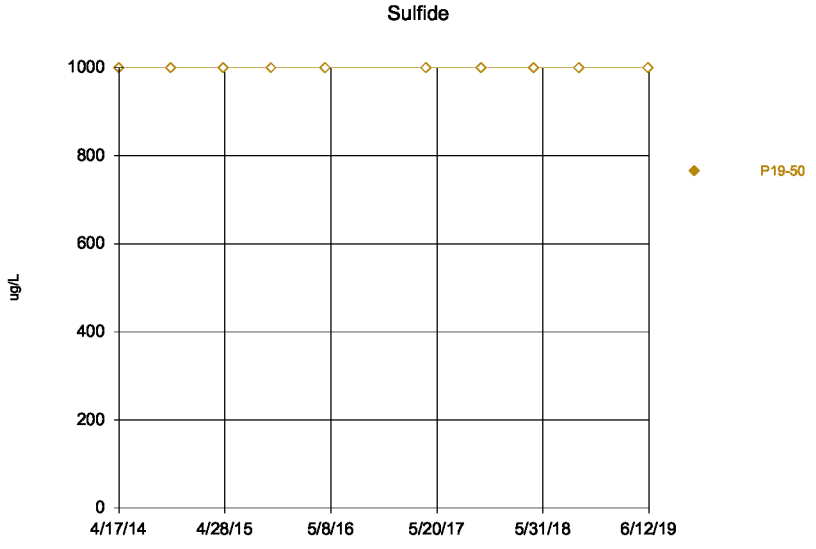

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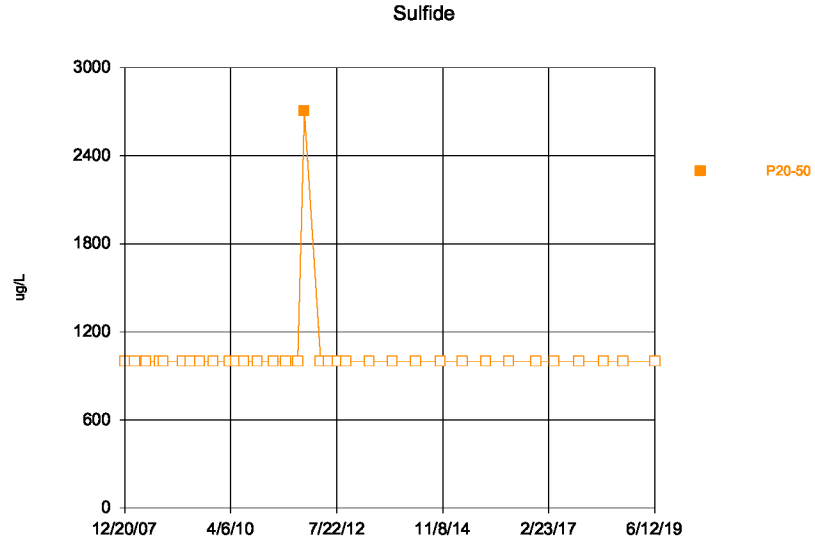

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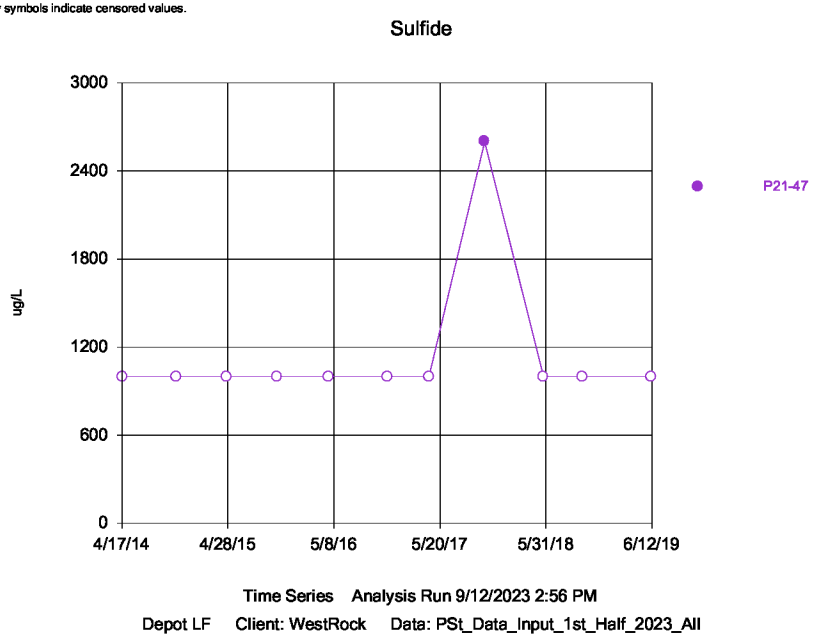

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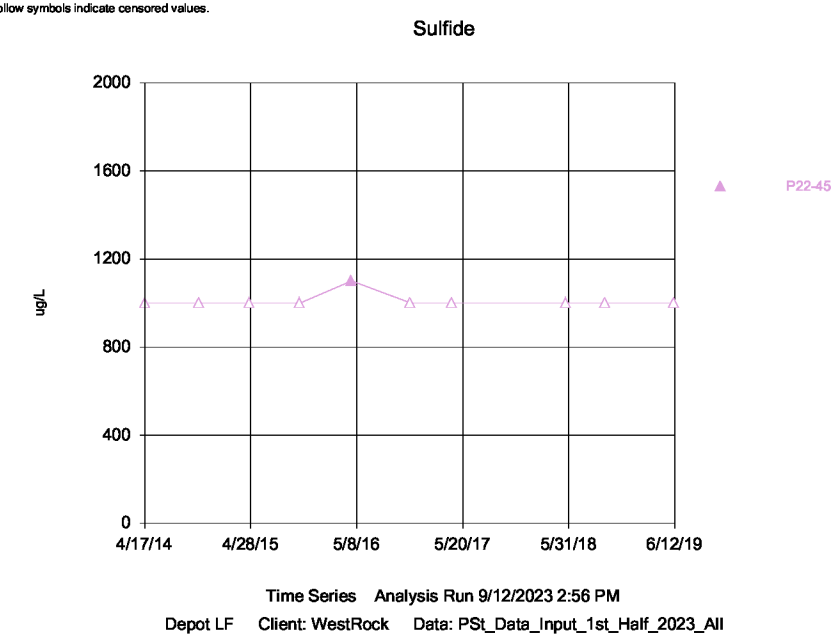

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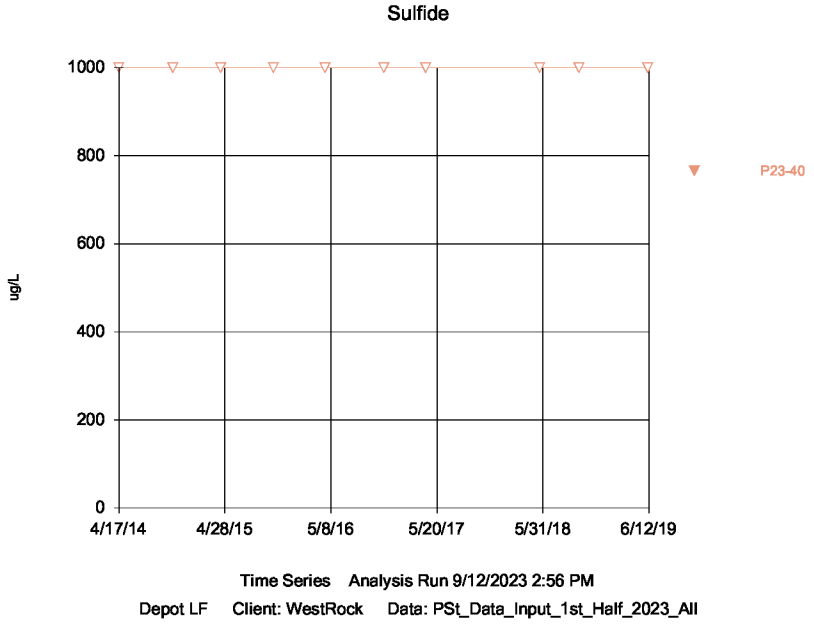

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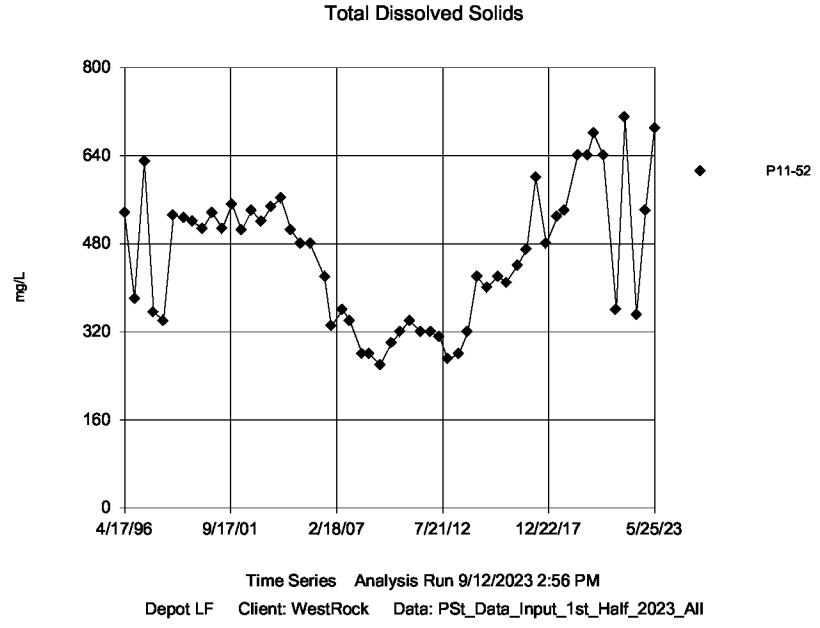

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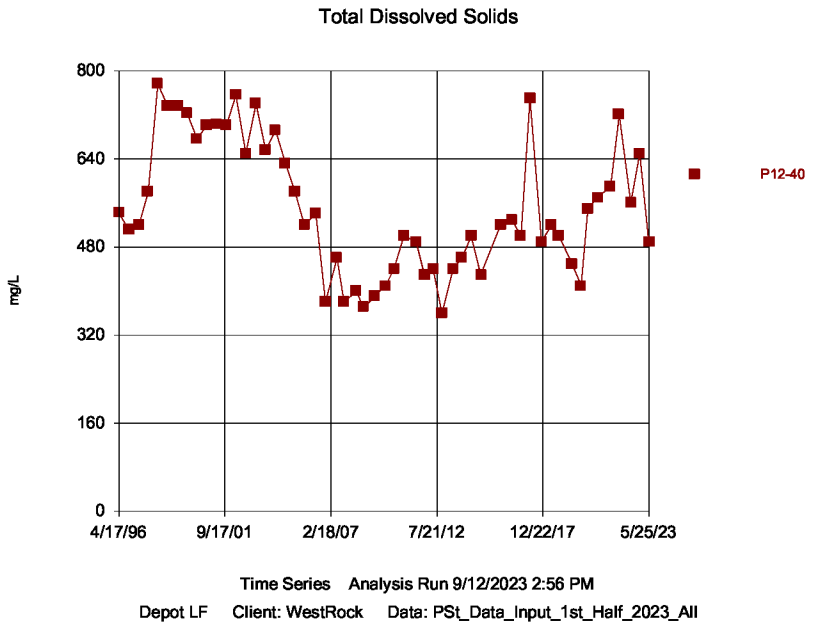

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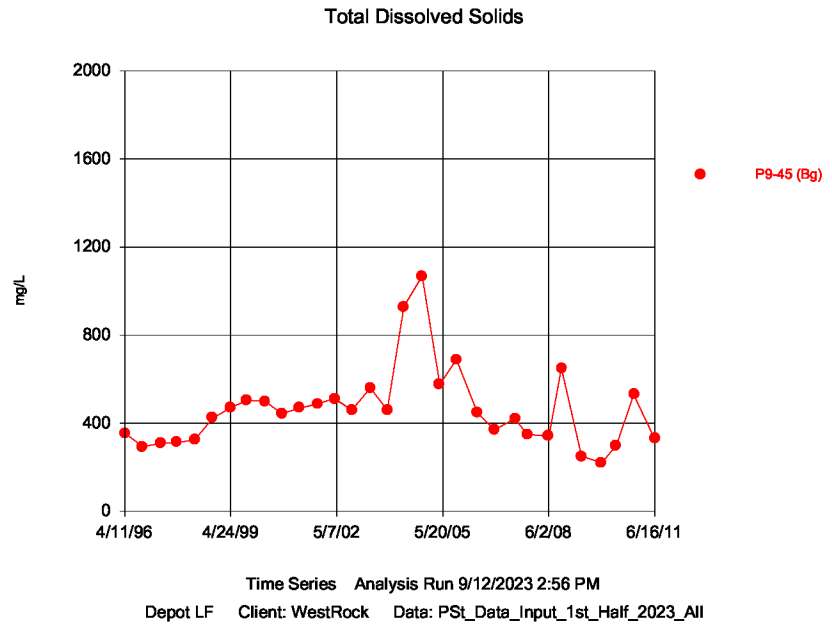

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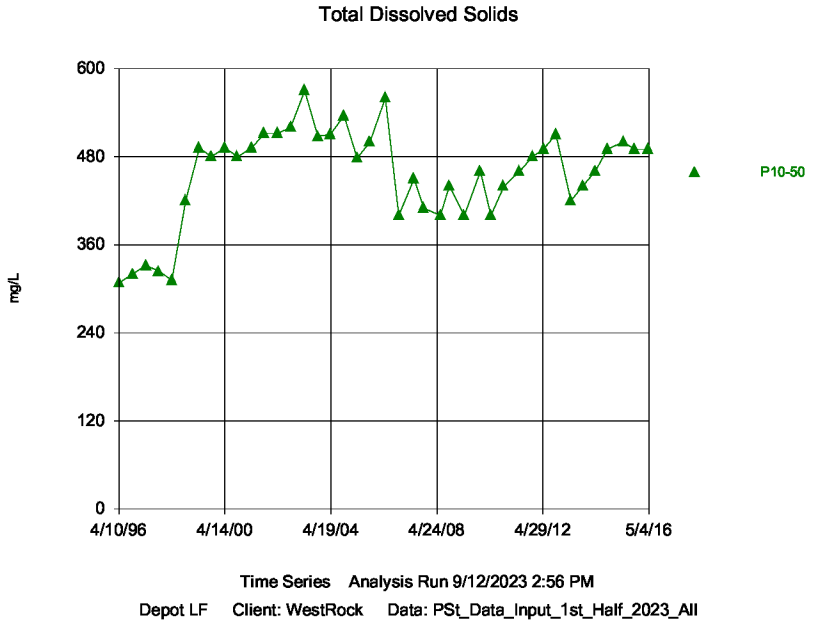

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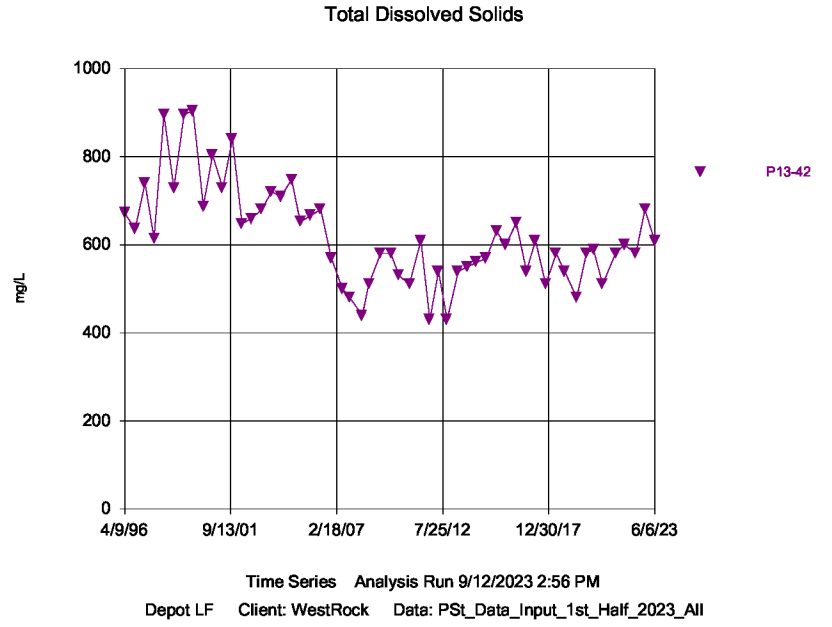

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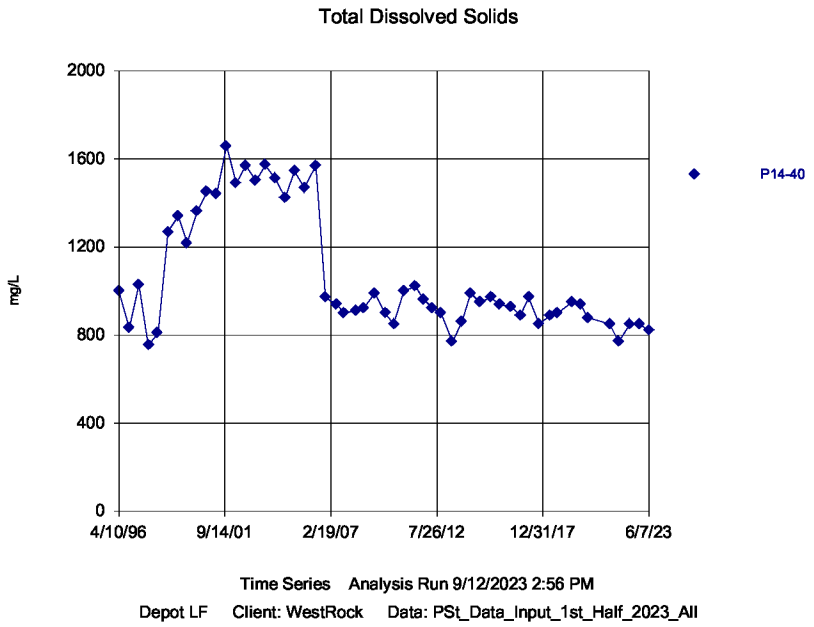

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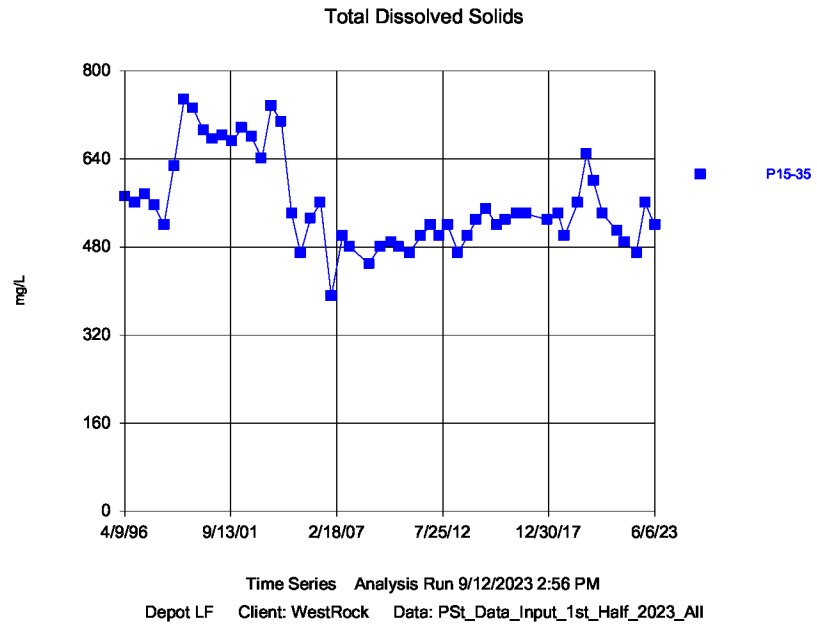

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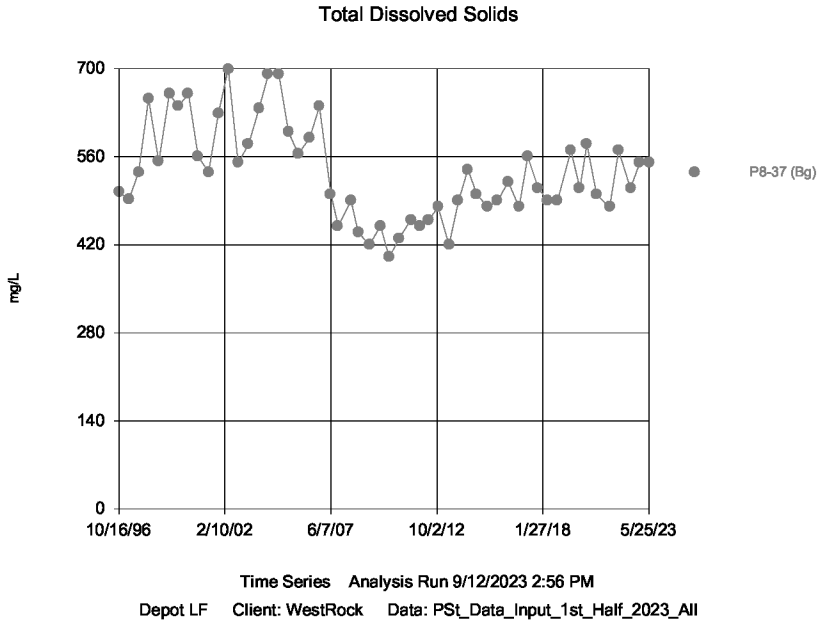

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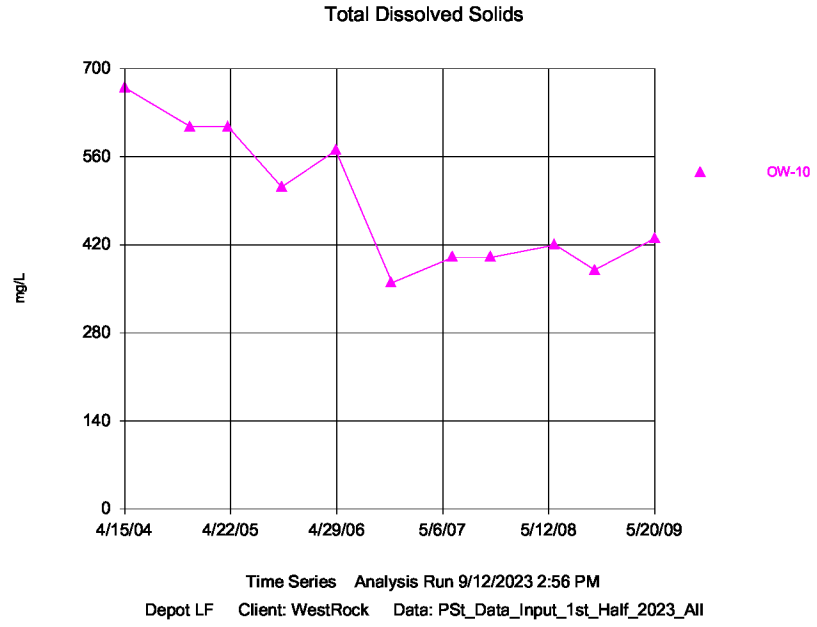

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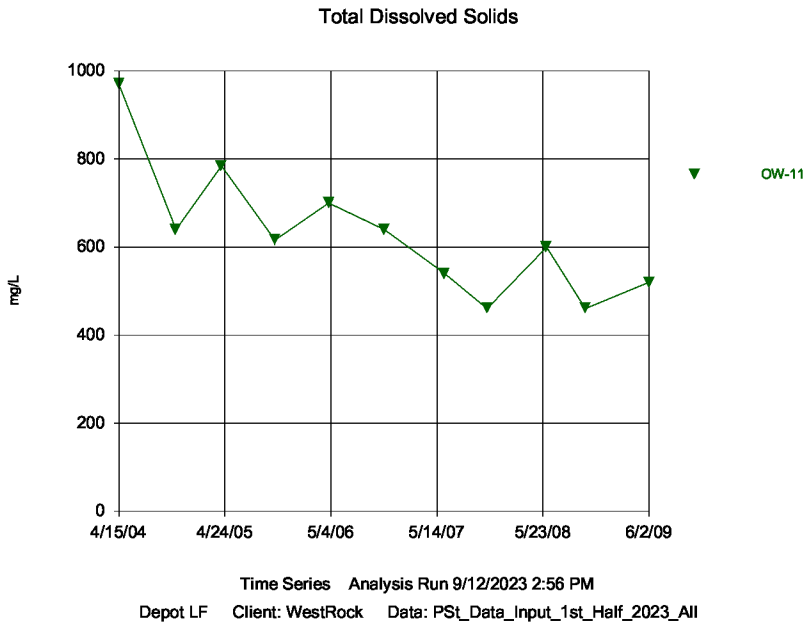

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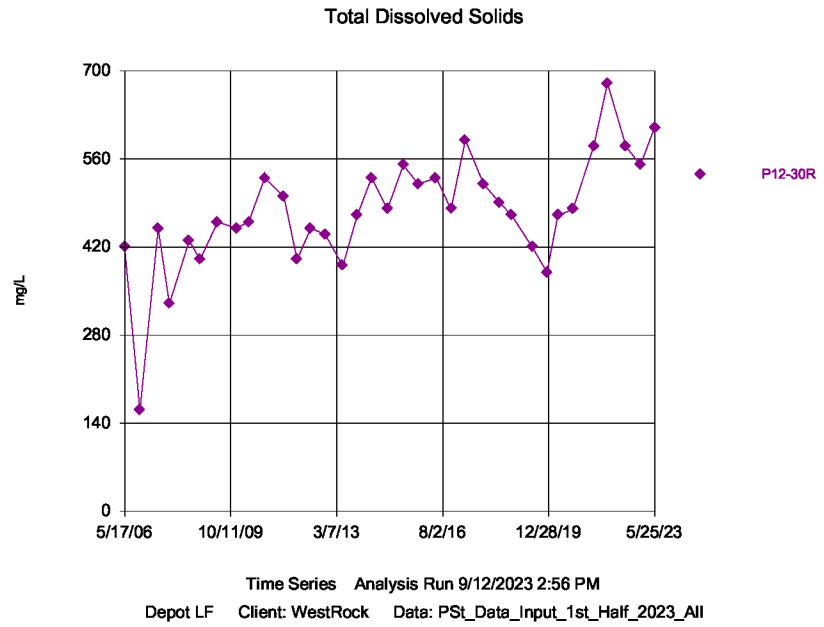

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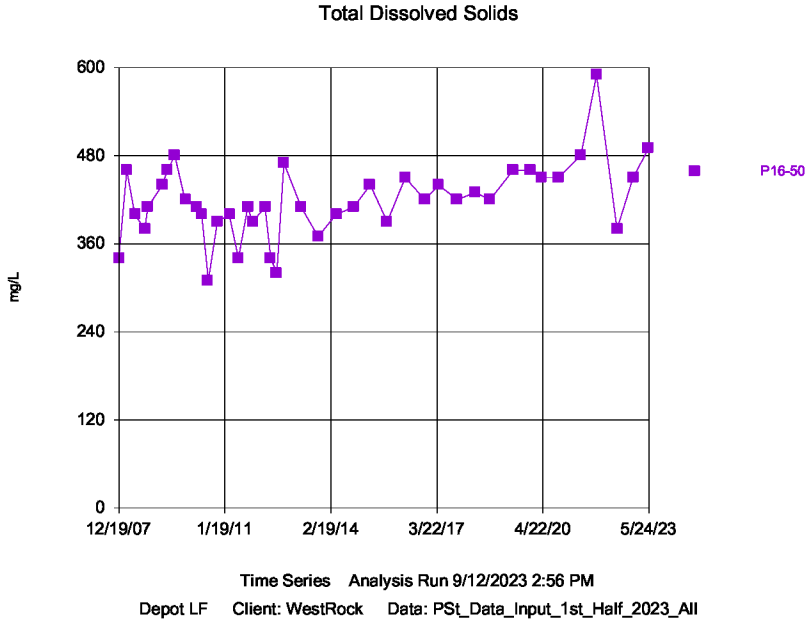

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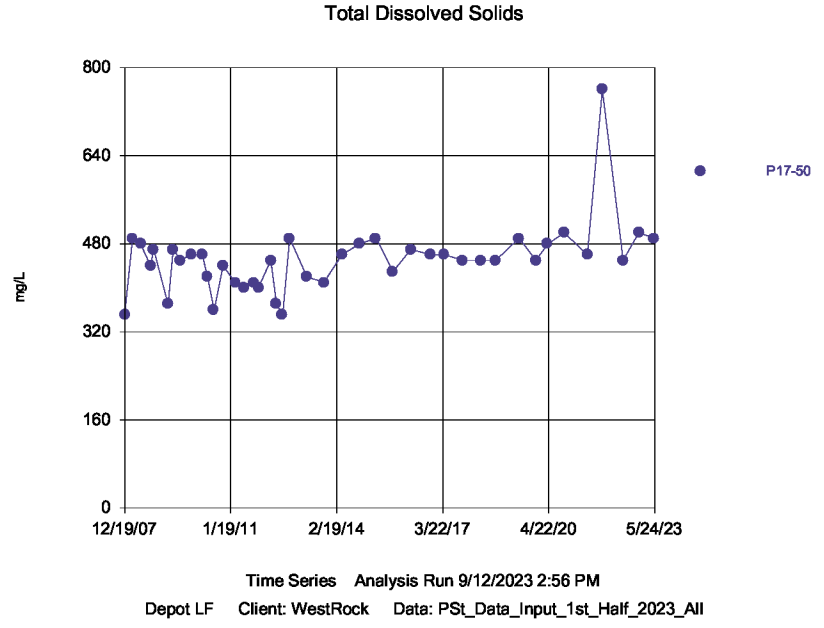

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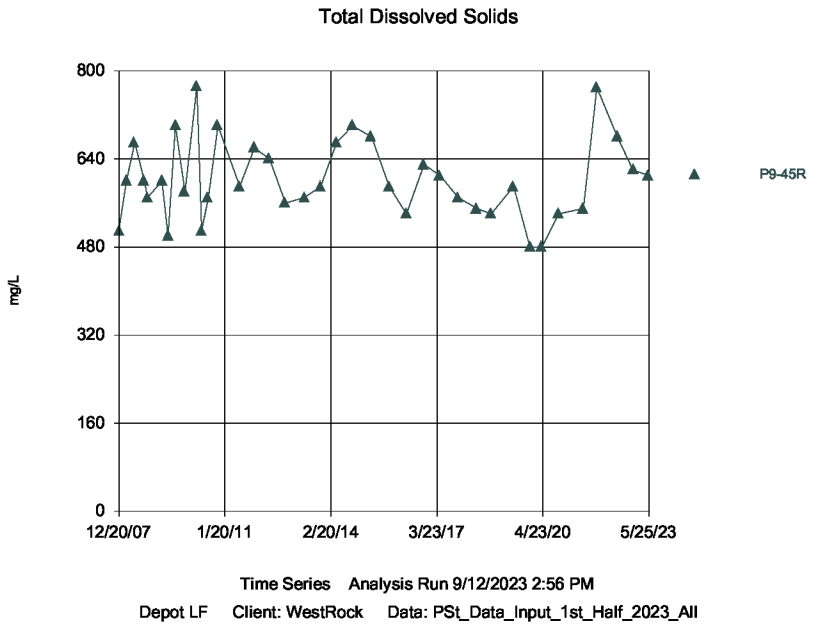

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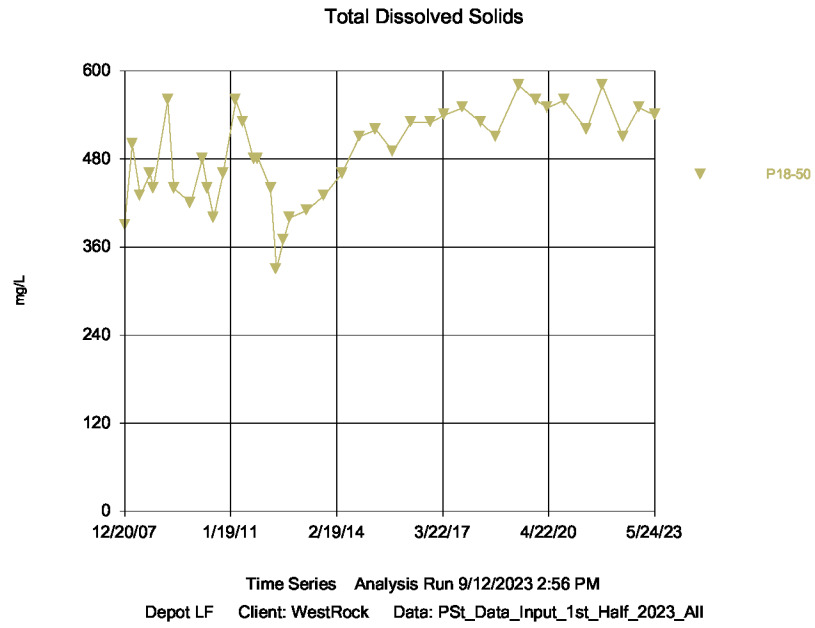

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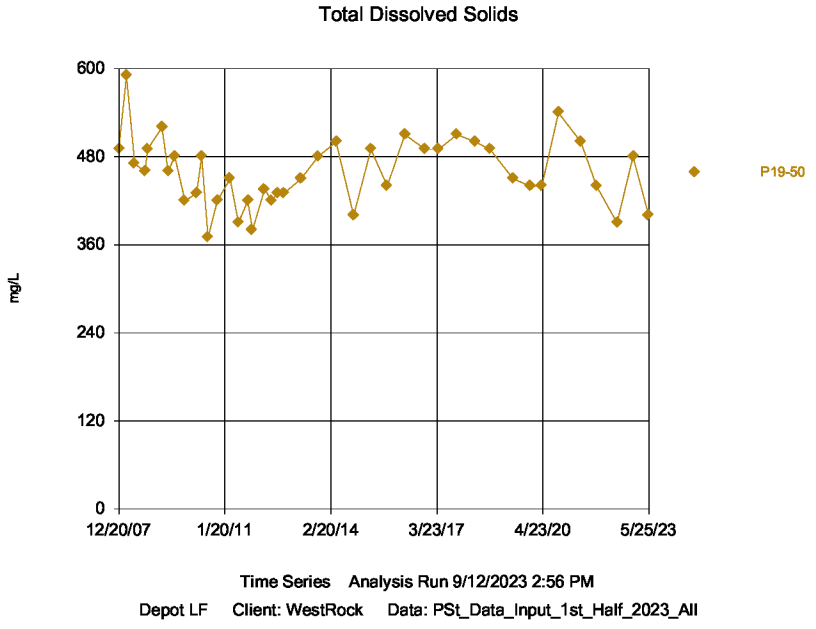

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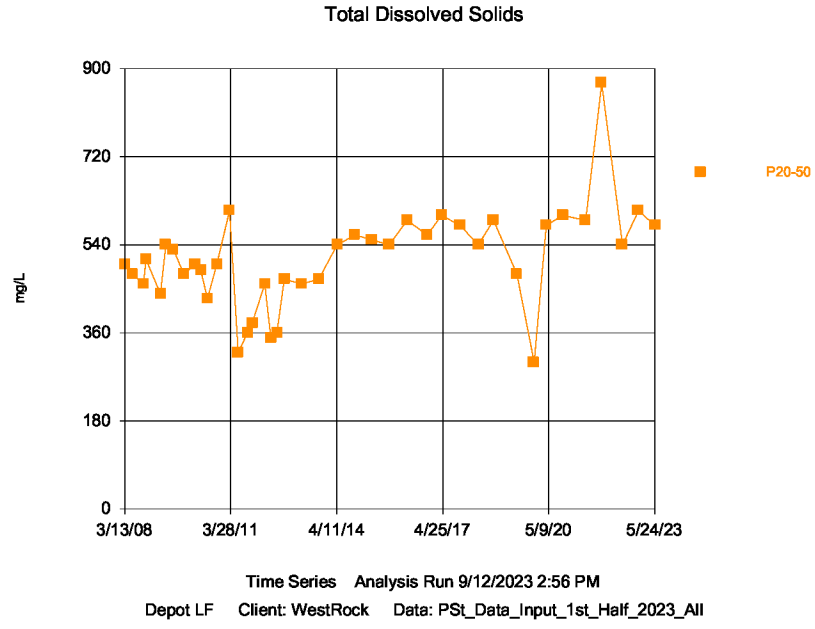

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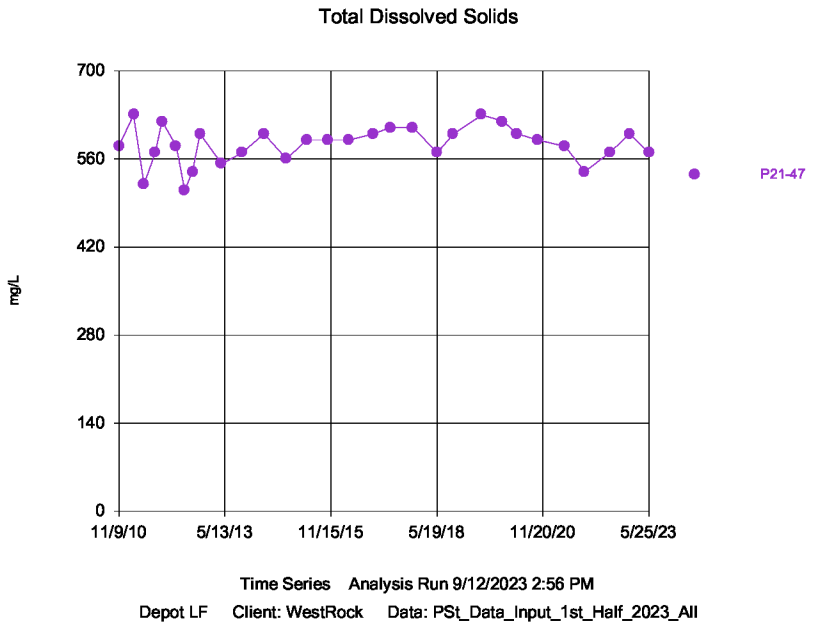

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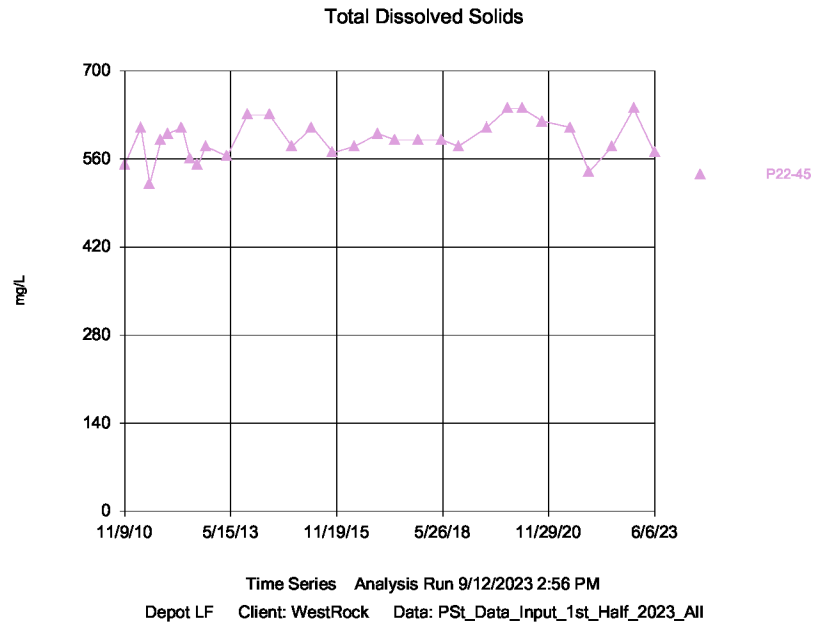

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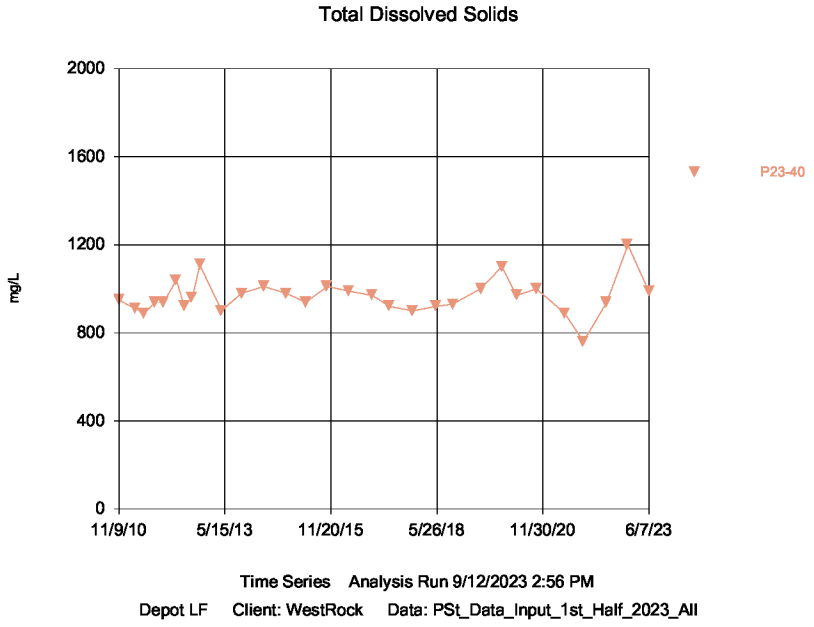

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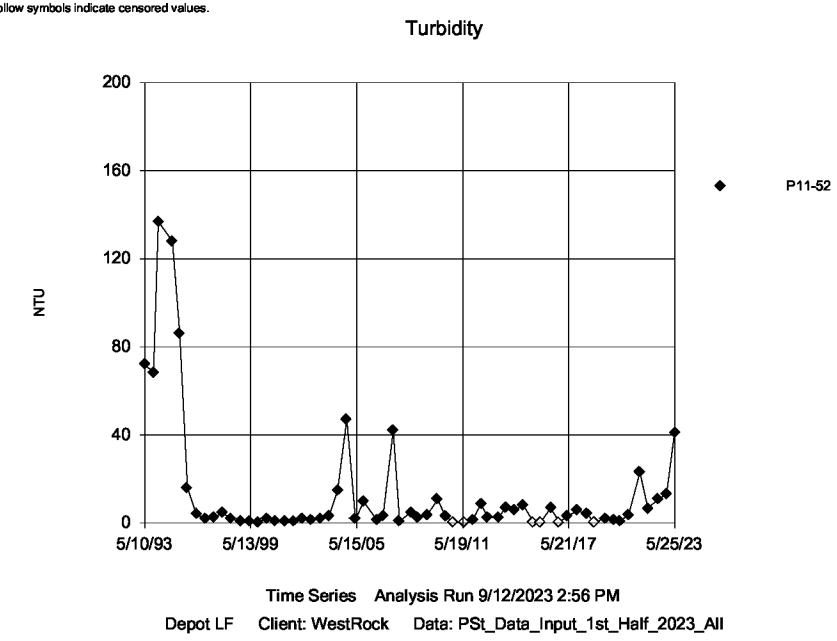
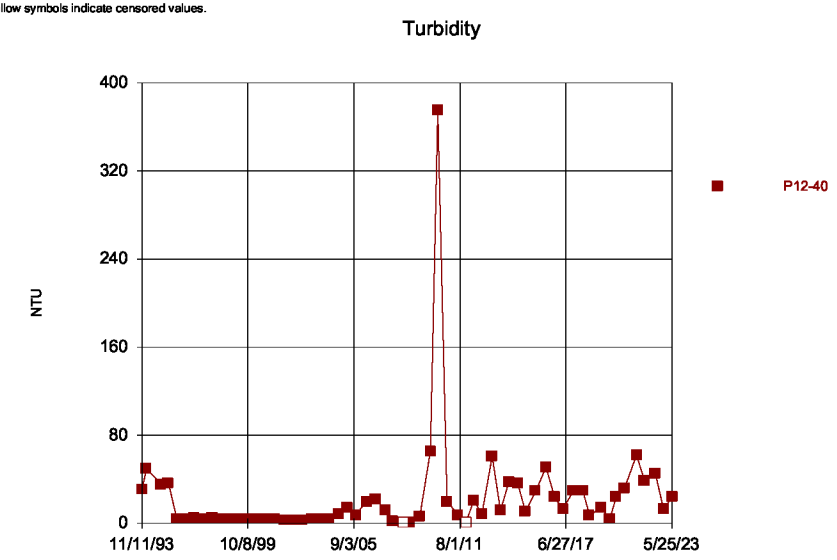


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



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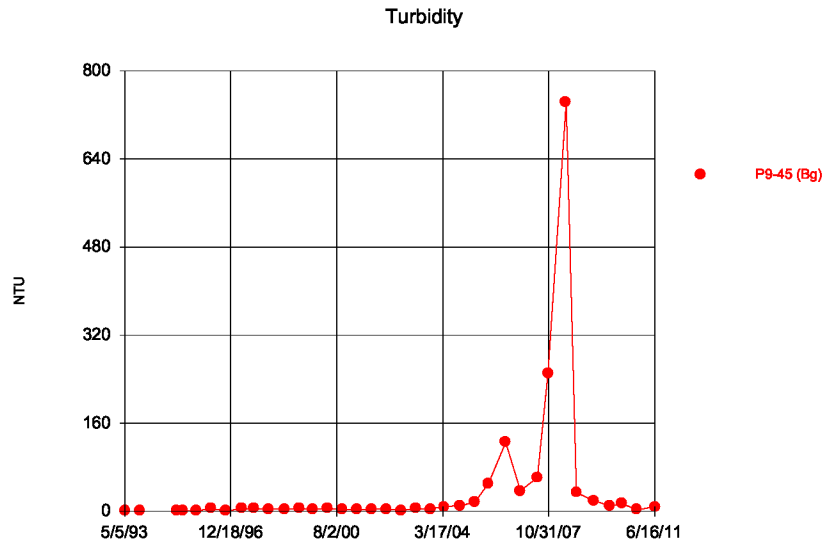
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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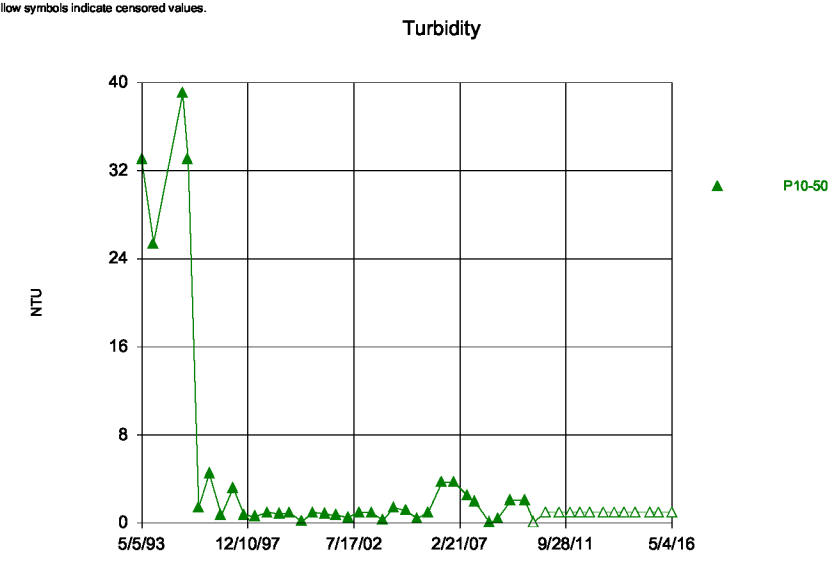
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



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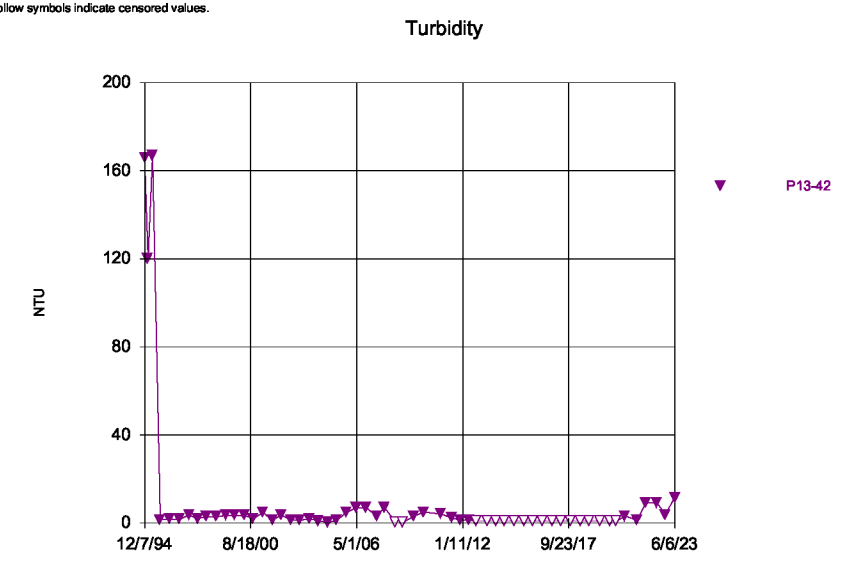
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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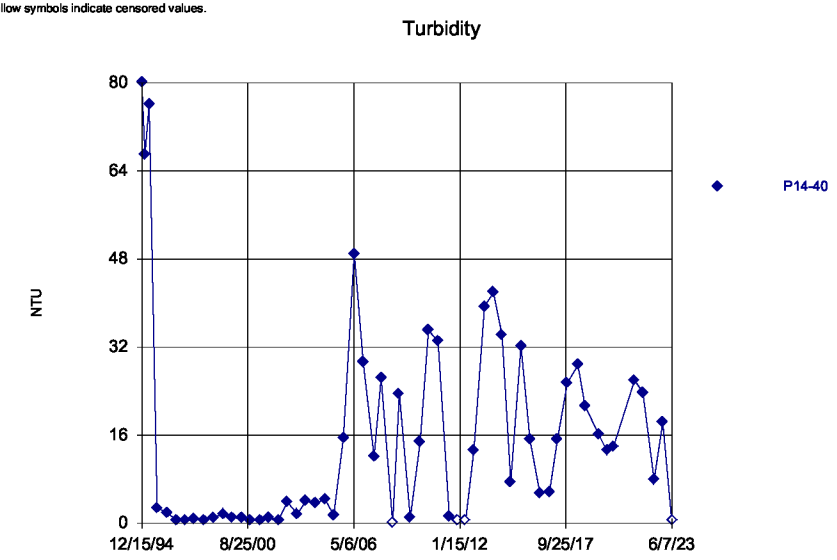

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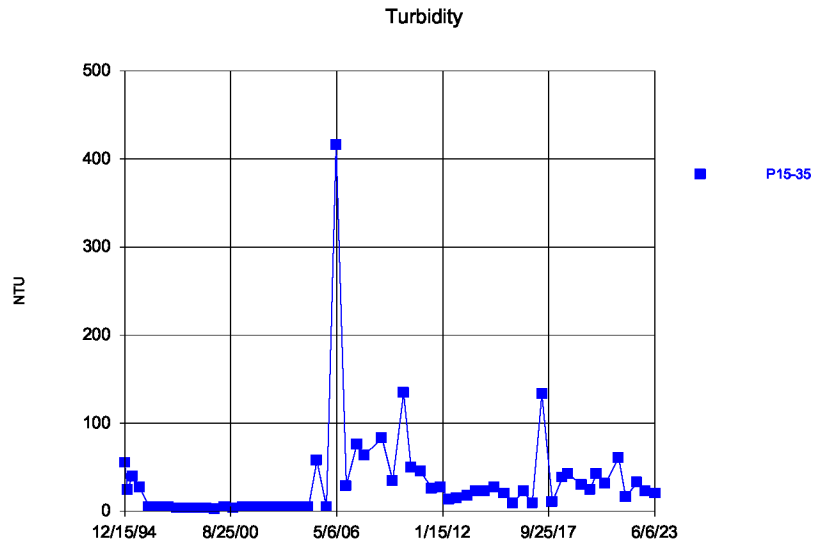
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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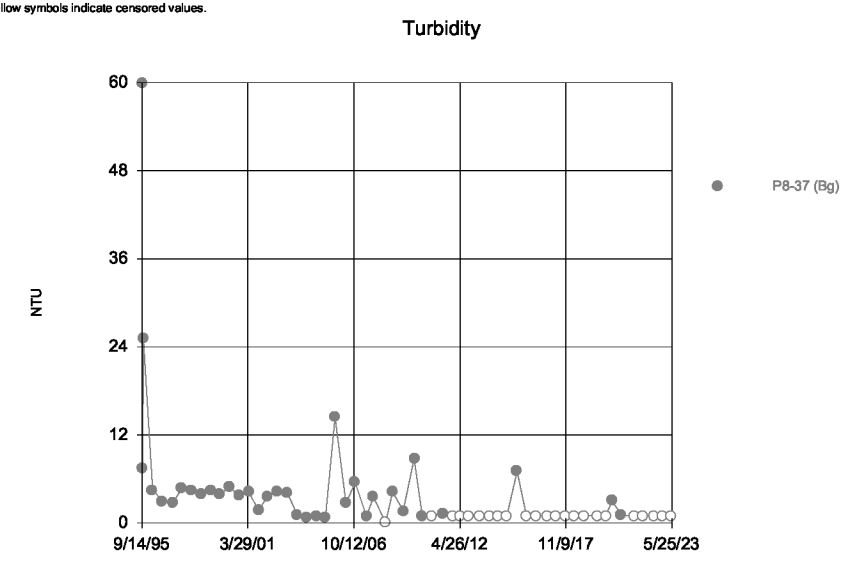

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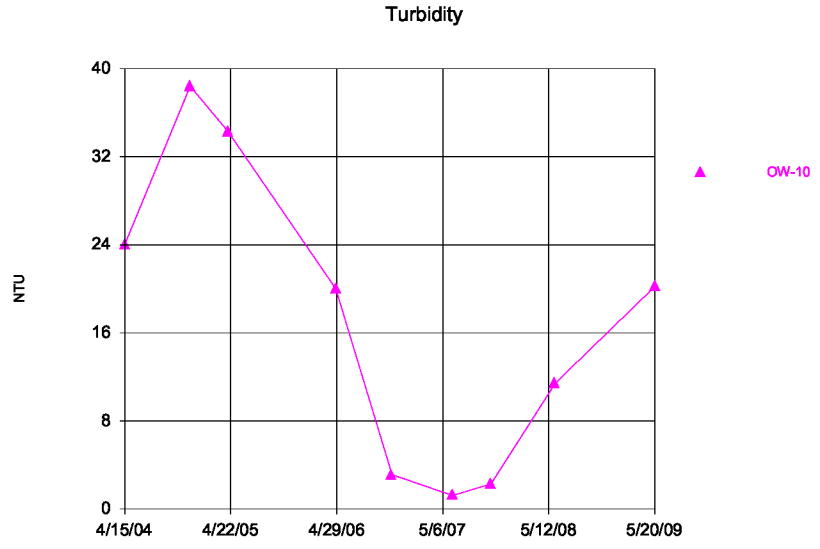
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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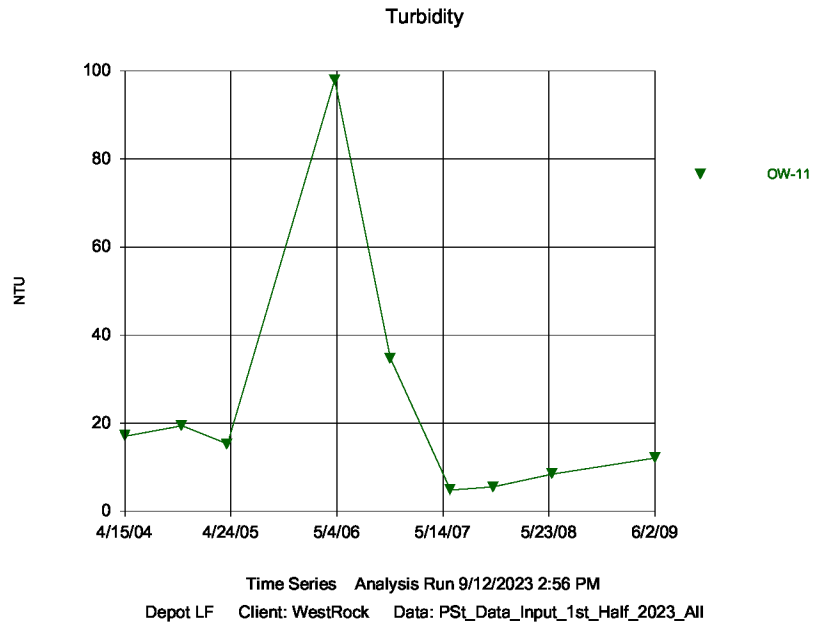
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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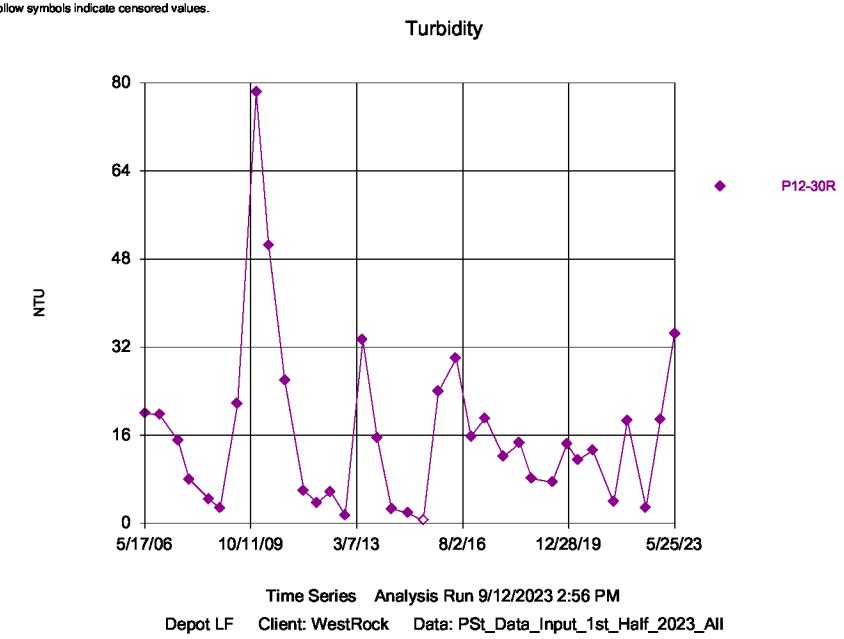

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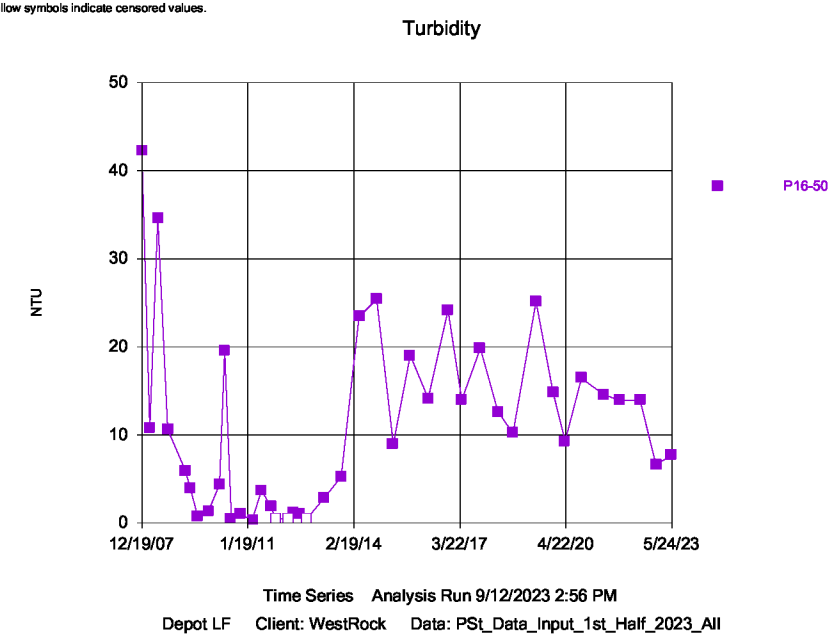

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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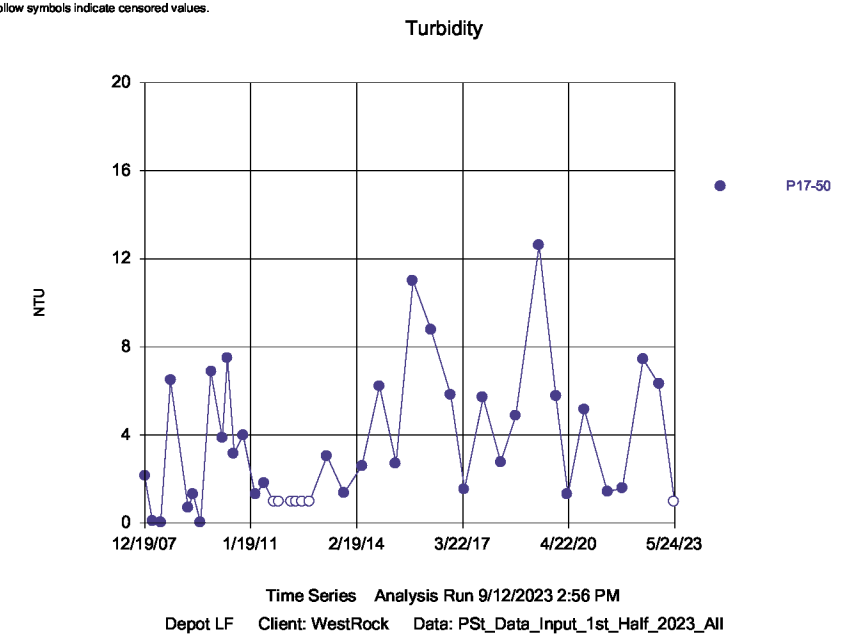

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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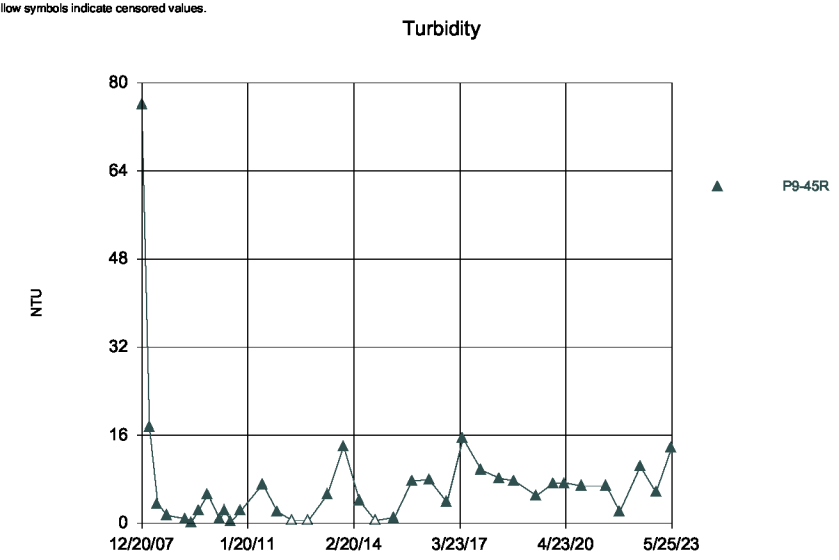

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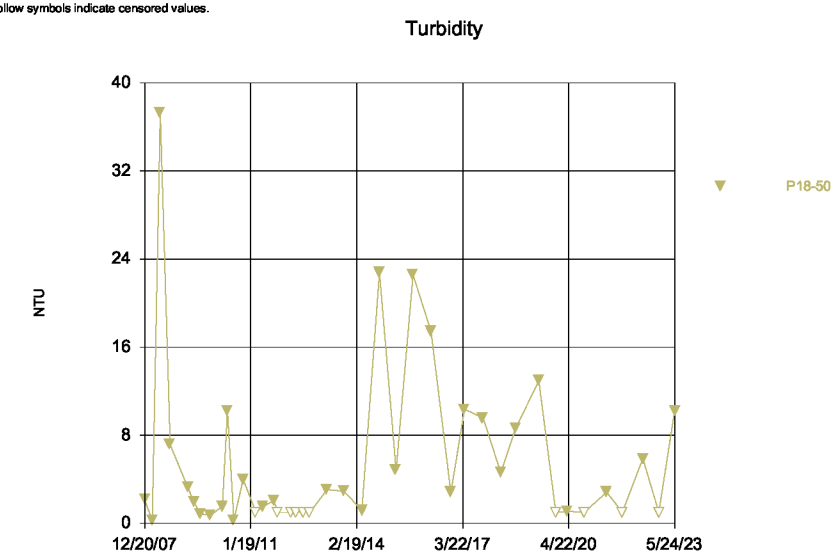

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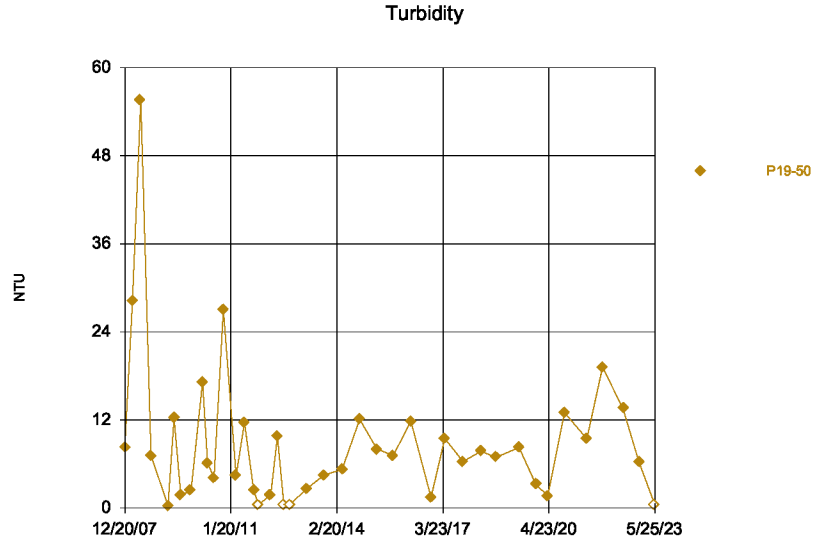

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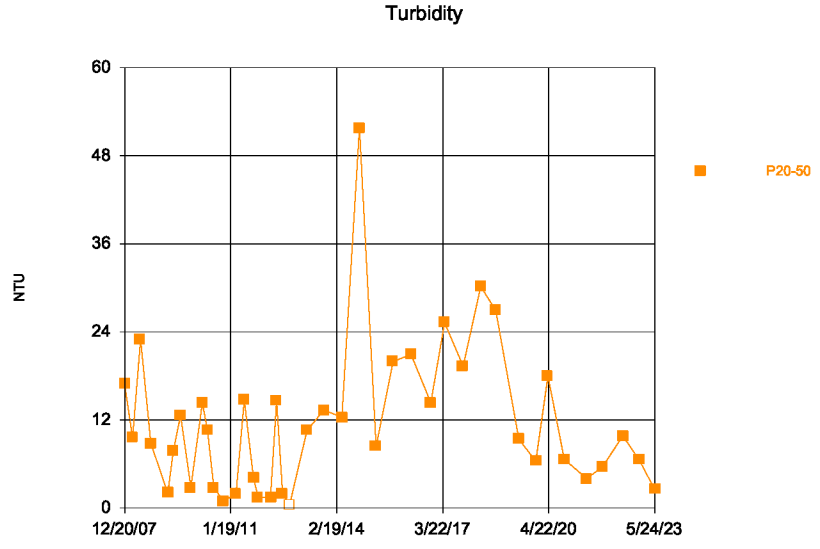

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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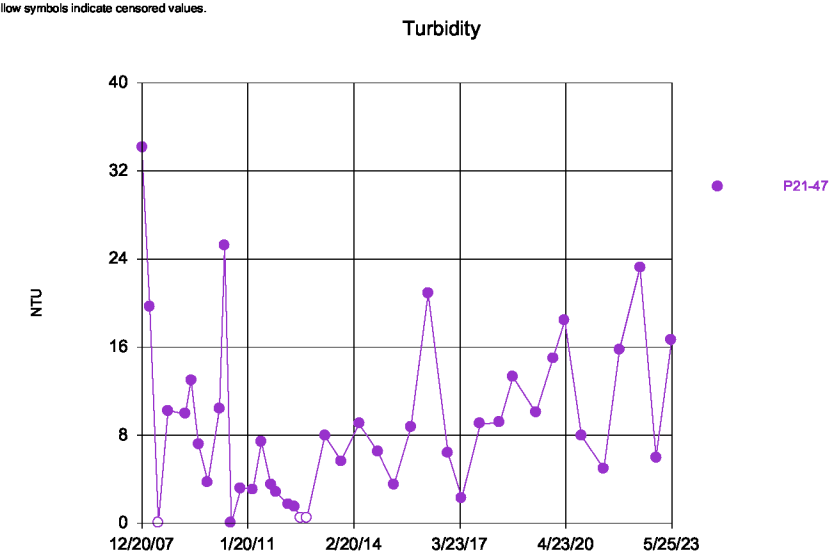

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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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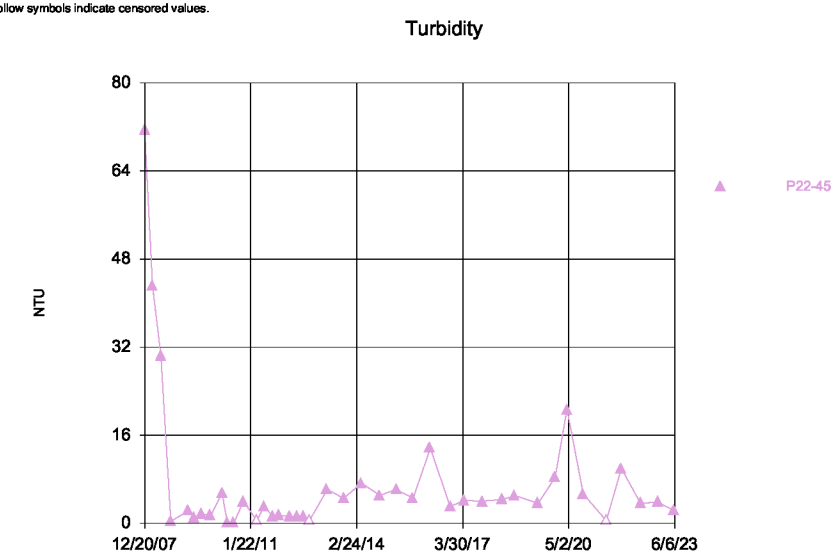

Time Series Analysis Run 9/12/2023 2:56 PM
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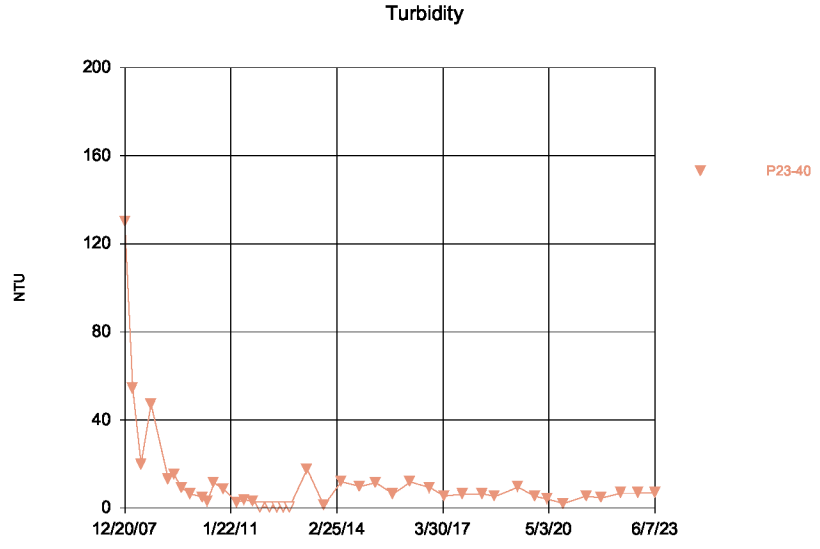
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Time Series Analysis Run 9/12/2023 2:56 PM
Depot LF Client: WestRock Data: PSt_Data_Input_1st_Half_2023_All

1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

Appendix E Statistical Analysis Results

Sanitas Tolerance Interval Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Upper Limit	Compliance Limit	Exceeds	N	Percent Non-Detects	Adjustment for NDs	Transformation	Alpha	Method
Arsenic (ug/L)	P8-37 (Bg)	2	10	No	8	100	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	**P8-37 (Bg)**	**65**	**60**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
COD (ug/L)	P8-37 (Bg)	30,000	60,000	No	8	62.5	None	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P8-37 (Bg)	36	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P9-45R (Bg	2	10	No	8	100	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	P9-45R (Bg	54	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P9-45R (Bg	30,000	60,000	No	8	37.5	None	No	6.63E-01	NP (normality)
Sodium (mg/L)	P9-45R (Bg	37	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P11-52 (Bg)	2	10	No	8	100	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	P11-52 (Bg)	53	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P11-52 (Bg)	40,658	60,000	No	8	12.5	None	No	5.00E-02	Param.
Sodium (mg/L)	P11-52 (Bg)	75	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P12-30R (B	9	10	No	8	25	Kaplan-Meie	No	5.00E-02	Param.
Chloride (mg/L)	P12-30R (B	47	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P12-30R (B	30,000	60,000	No	8	62.5	None	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P12-30R (B	84	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	**P12-40 (Bg)**	**20**	**10**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
Chloride (mg/L)	P12-40 (Bg)	43	60	No	8	0	None	x^2	5.00E-02	Param.
COD (ug/L)	P12-40 (Bg)	30,000	60,000	No	8	50	None	No	6.63E-01	NP (normality)
Sodium (mg/L)	P12-40 (Bg)	71	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	**P13-42 (Bg)**	**30**	**10**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
Chloride (mg/L)	**P13-42 (Bg)**	**69**	**60**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
COD (ug/L)	P13-42 (Bg)	32,661	60,000	No	8	12.5	None	No	5.00E-02	Param.
Sodium (mg/L)	P13-42 (Bg)	65	222	No	8	0	None	No	5.00E-02	Param.

Sanitas Tolerance Interval Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Upper Limit	Compliance Limit	Exceeds	N	Percent Non-Detects	Adjustment for NDs	Transformation	Alpha	Method
Arsenic (ug/L)	**P14-40 (Bg)**	**51**	**10**	**Yes**	**8**	**0**	**None**	**x^(1/3)**	**5.00E-02**	**Param.**
Chloride (mg/L)	P14-40 (Bg)	56	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	**P14-40 (Bg)**	**65,715**	**60,000**	**Yes**	**8**	**0**	**None**	**x^2**	**5.00E-02**	**Param.**
Sodium (mg/L)	P14-40 (Bg)	196	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P15-35 (Bg)	5	10	No	8	0	None	No	6.63E-01	NP (normality)
Chloride (mg/L)	**P15-35 (Bg)**	**66**	**60**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
COD (ug/L)	P15-35 (Bg)	18,000	60,000	No	8	37.5	None	No	6.63E-01	NP (normality)
Sodium (mg/L)	P15-35 (Bg)	42	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P16-50 (Bg)	5	10	No	8	0	None	No	6.63E-01	NP (normality)
Chloride (mg/L)	P16-50 (Bg)	20	60	No	8	0	None	No	6.63E-01	NP (normality)
COD (ug/L)	P16-50 (Bg)	30,000	60,000	No	8	62.5	None	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P16-50 (Bg)	8	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P17-50 (Bg)	4	10	No	8	0	None	No	6.63E-01	NP (normality)
Chloride (mg/L)	P17-50 (Bg)	21	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P17-50 (Bg)	30,000	60,000	No	8	62.5	None	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P17-50 (Bg)	7	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P18-50 (Bg)	3	10	No	8	75	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	P18-50 (Bg)	37	60	No	8	0	None	No	6.63E-01	NP (normality)
COD (ug/L)	P18-50 (Bg)	30,000	60,000	No	8	62.5	None	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P18-50 (Bg)	27	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P19-50 (Bg)	2	10	No	8	100	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	**P19-50 (Bg)**	**86**	**60**	**Yes**	**8**	**0**	**None**	**No**	**6.63E-01**	**NP (normality)**
COD (ug/L)	P19-50 (Bg)	27,440	60,000	No	8	25	Kaplan-Meie	ln(x)	5.00E-02	Param.
Sodium (mg/L)	P19-50 (Bg)	38	222	No	8	0	None	No	6.63E-01	NP (normality)

Sanitas Tolerance Interval Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Upper Limit	Compliance Limit	Exceeds	N	Percent Non-Detects	Adjustment for NDs	Transformation	Alpha	Method
Arsenic (ug/L)	P20-50 (Bg)	2	10	No	8	37.5	None	No	6.63E-01	NP (normality)
Chloride (mg/L)	P20-50 (Bg)	53	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P20-50 (Bg)	30,000	60,000	No	8	75	Kaplan-Meie	No	6.63E-01	NP (NDs)
Sodium (mg/L)	P20-50 (Bg)	32	222	No	8	0	None	No	6.63E-01	NP (normality)
Arsenic (ug/L)	P21-47 (Bg)	5	10	No	8	12.5	None	No	6.63E-01	NP (normality)
Chloride (mg/L)	P21-47 (Bg)	60	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P21-47 (Bg)	31,070	60,000	No	8	25	Kaplan-Meie	sqrt(x)	5.00E-02	Param.
Sodium (mg/L)	P21-47 (Bg)	52	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	P22-45 (Bg)	2	10	No	8	100	None	No	6.63E-01	NP (NDs)
Chloride (mg/L)	P22-45 (Bg)	57	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	P22-45 (Bg)	32,483	60,000	No	8	12.5	None	No	5.00E-02	Param.
Sodium (mg/L)	P22-45 (Bg)	50	222	No	8	0	None	No	5.00E-02	Param.
Arsenic (ug/L)	**P23-40 (Bg)**	**43**	**10**	**Yes**	**8**	**0**	**None**	**No**	**5.00E-02**	**Param.**
Chloride (mg/L)	P23-40 (Bg)	55	60	No	8	0	None	No	5.00E-02	Param.
COD (ug/L)	**P23-40 (Bg)**	**66,498**	**60,000**	**Yes**	**8**	**12.5**	**None**	**x^2**	**5.00E-02**	**Param.**
Sodium (mg/L)	P23-40 (Bg)	150	222	No	8	0	None	No	6.63E-01	NP (normality)

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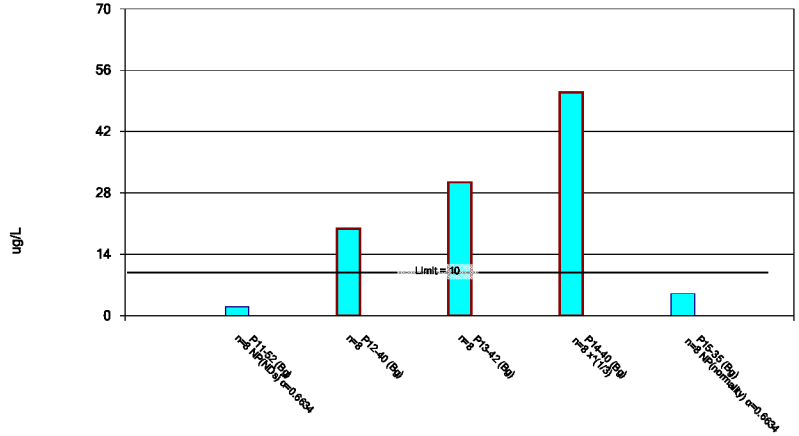
Parametric and Non-Parametric (NP) Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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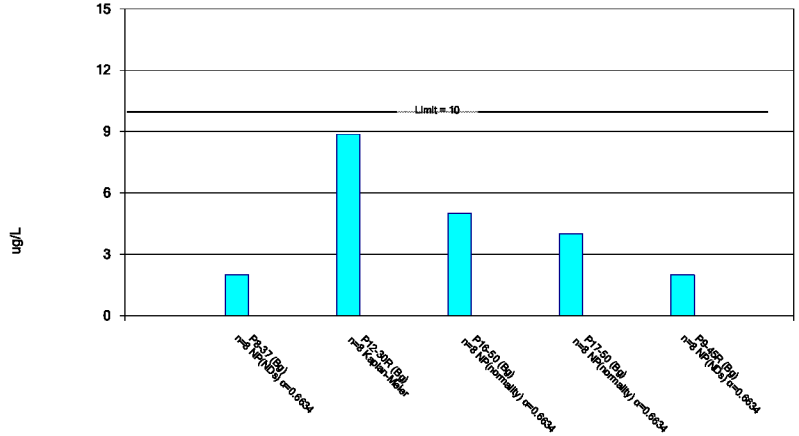
Parametric and Non-Parametric (NP) Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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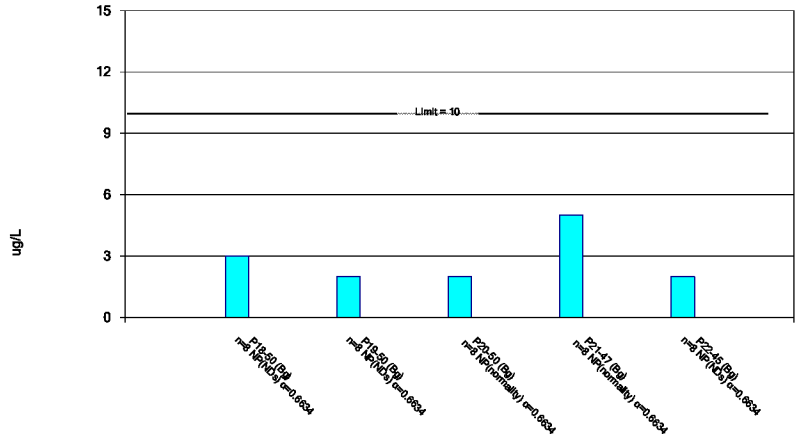
Non-Parametric Tolerance Interval

Compliance Limit is not exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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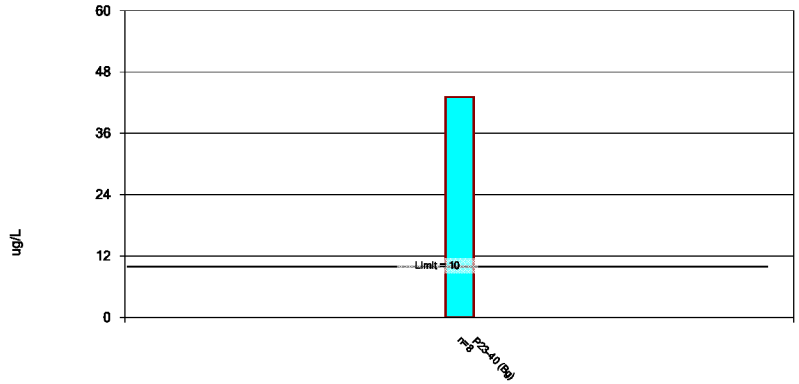
Parametric Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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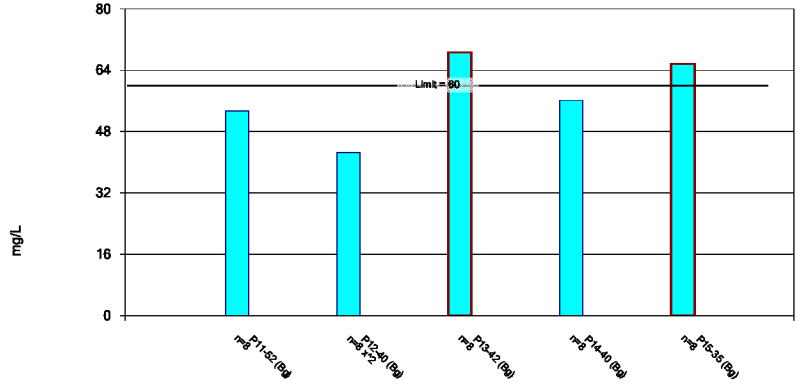
Parametric Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chloride Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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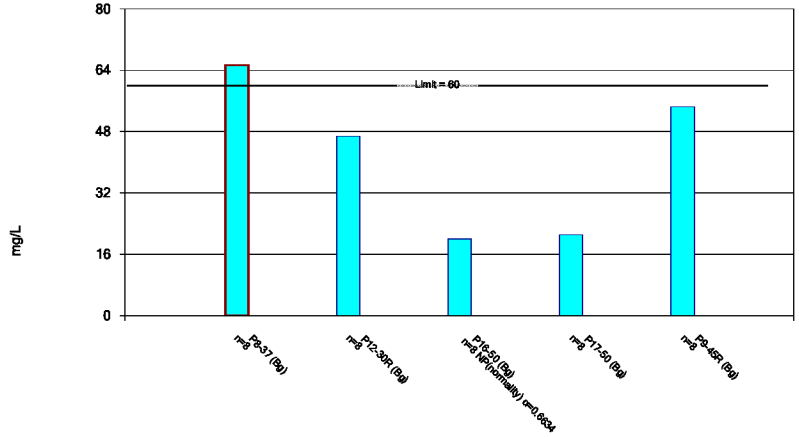
Parametric and Non-Parametric (NP) Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



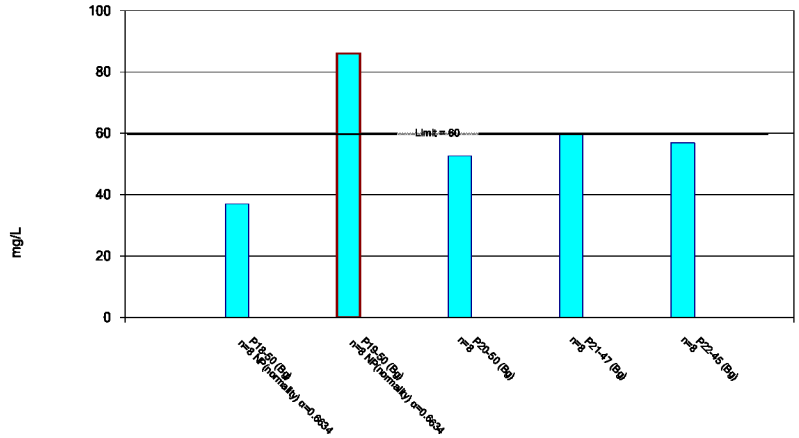
Constituent: Chloride Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric and Non-Parametric (NP) Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



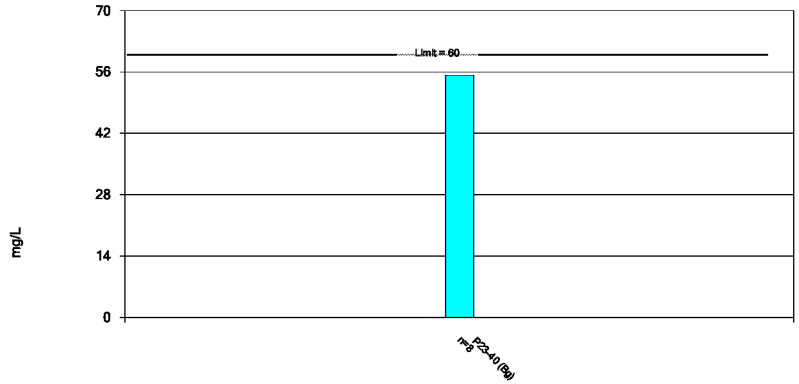
Constituent: Chloride Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



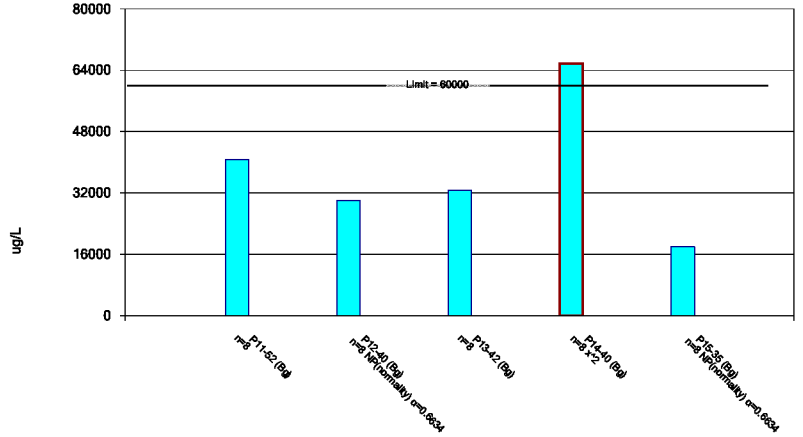
Constituent: Chloride Analysis Run 9/12/2023 9:42 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric and Non-Parametric (NP) Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



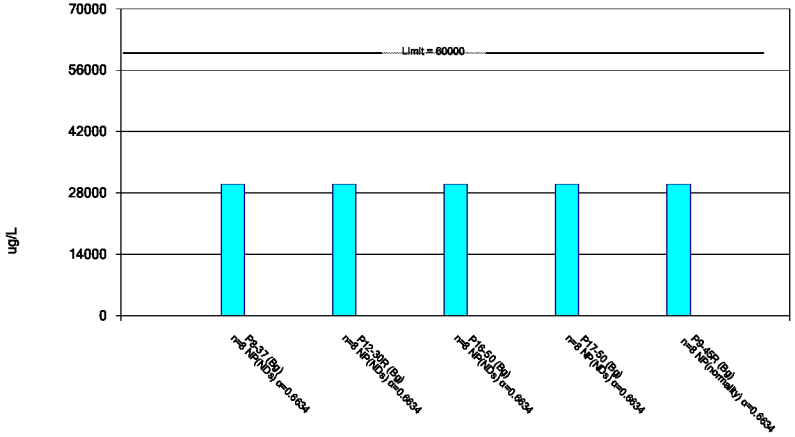
Constituent: COD Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Non-Parametric Tolerance Interval

Compliance Limit is not exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: COD Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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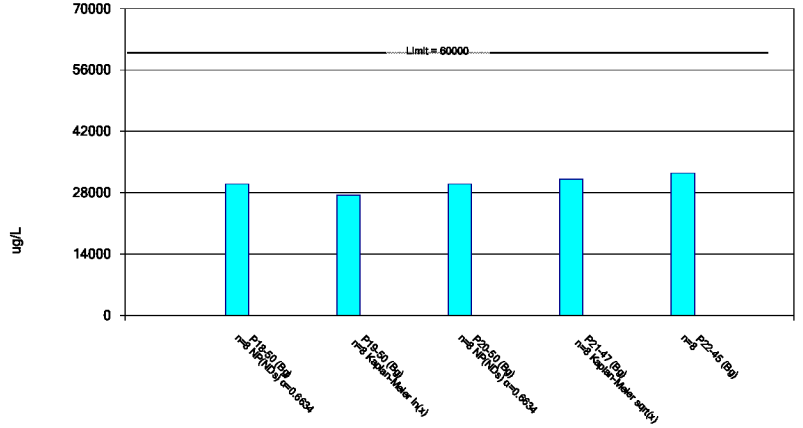
Parametric and Non-Parametric (NP) Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



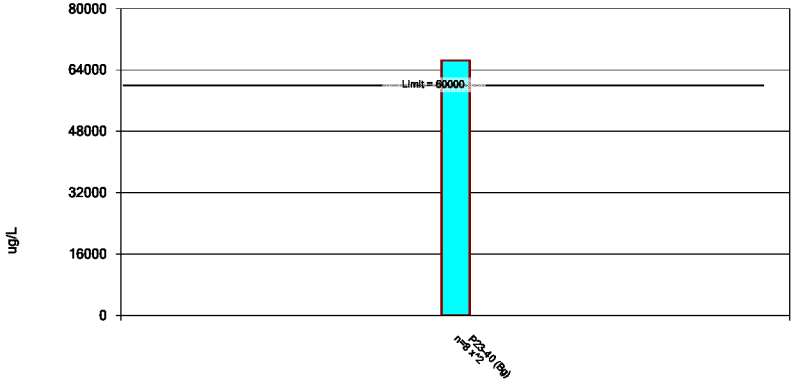
Constituent: COD Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric Tolerance Interval

Compliance limit is exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



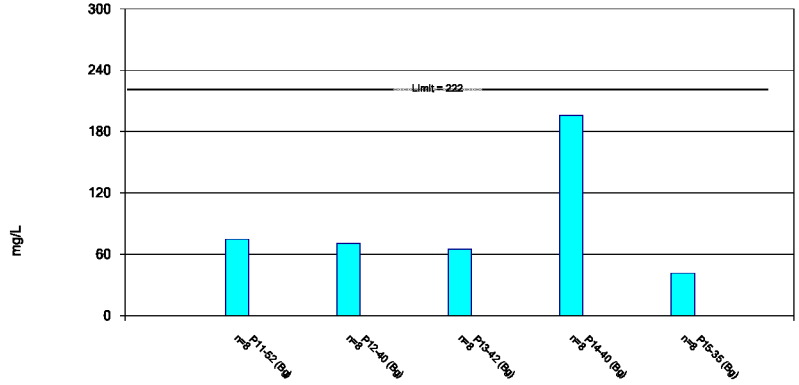
Constituent: COD Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



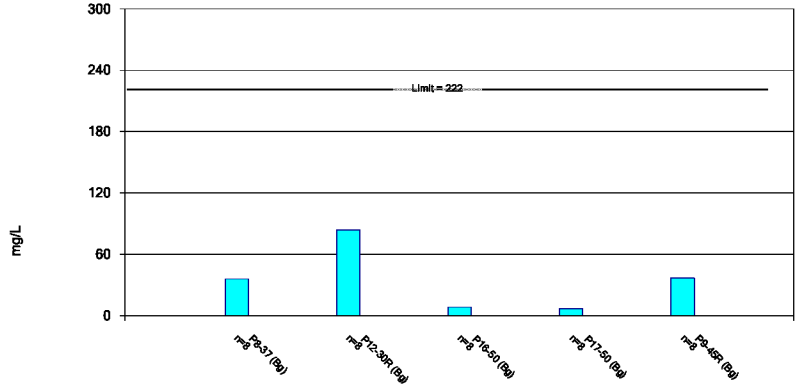
Constituent: Sodium Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05. Normality Test: Shapiro Wilk, alpha based on n.



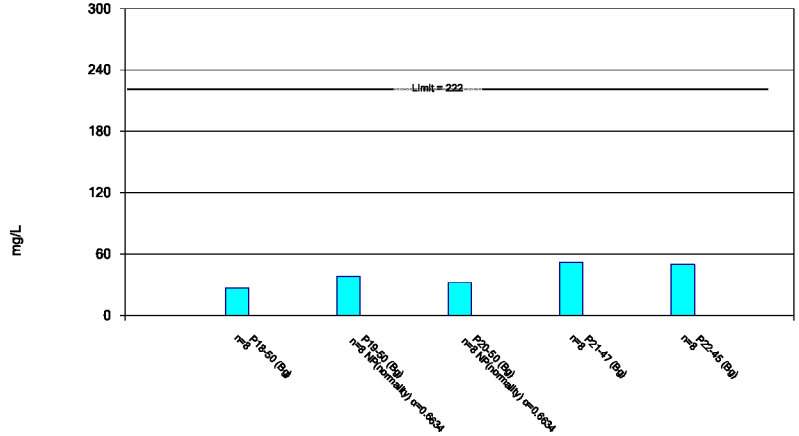
Constituent: Sodium Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Parametric and Non-Parametric (NP) Tolerance Interval

Compliance Limit is not exceeded. Per-well alpha = 0.05 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



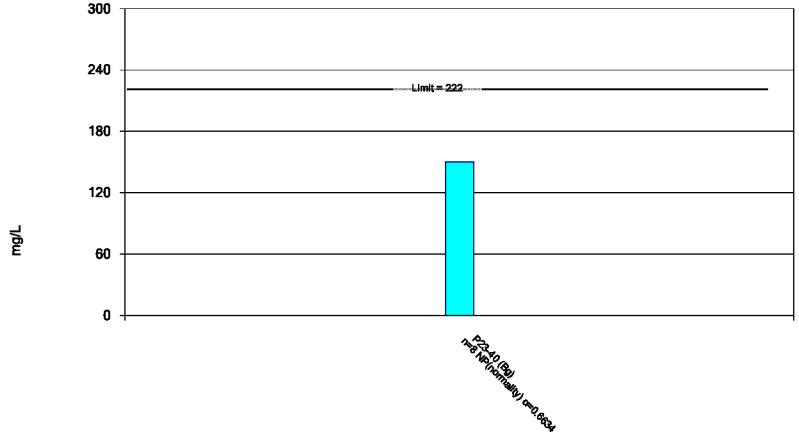
Constituent: Sodium Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Non-Parametric Tolerance Interval

Compliance Limit is not exceeded. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Sodium Analysis Run 9/12/2023 9:43 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Alkalinity (mg/L)	P8-37	-4.342	-2	-17	No	8	0	0.05
Ammonia (ug/L)	P8-37	-9.139	-17	-17	No	8	25	0.05
Arsenic (ug/L)	P8-37	0	0	17	No	8	100	0.05
Barium (mg/L)	P8-37	0.001127	15	17	No	8	0	0.05
Calcium (mg/L)	P8-37	1.472	11	17	No	8	0	0.05
Chloride (mg/L)	P8-37	2.27	11	17	No	8	0	0.05
COD (ug/L)	P8-37	1660	15	17	No	8	62.5	0.05
Iron (mg/L)	P8-37	0	-5	-17	No	8	87.5	0.05
Iron-Dissolved (mg/l)	P8-37	0	0	17	No	8	100	0.05
Magnesium (mg/L)	P8-37	0.3117	6	17	No	8	0	0.05
Manganese (mg/L)	P8-37	0	0	17	No	8	100	0.05
Manganese-Dissolved (mg/l)	P8-37	0	0	17	No	8	100	0.05
Nitrate (ug/L)	**P8-37**	**-46.68**	**-22**	**-17**	**Yes**	**8**	**0**	**0.05**
Nitrite (mg/L)	P8-37	0	0	17	No	8	100	0.05
Potassium (mg/L)	P8-37	-0.03278	-16	-17	No	8	0	0.05
Sodium (mg/L)	P8-37	0.5163	3	17	No	8	0	0.05
Sulfate (mg/L)	P8-37	5.146	6	17	No	8	0	0.05
TDS (mg/L)	P8-37	2.929	2	17	No	8	0	0.05
Alkalinity (mg/L)	P9-45R	13.09	9	17	No	8	0	0.05
Ammonia (ug/L)	**P9-45R**	**-131.2**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Arsenic (ug/L)	P9-45R	0	0	17	No	8	100	0.05
Barium (mg/L)	P9-45R	-0.0111	-6	-17	No	8	0	0.05
Calcium (mg/L)	P9-45R	11.64	17	17	No	8	0	0.05
Chloride (mg/L)	P9-45R	3.776	11	17	No	8	0	0.05
COD (ug/L)	P9-45R	729.3	6	17	No	8	37.5	0.05
Iron (mg/L)	P9-45R	0	-1	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P9-45R	0.07549	3	17	No	8	0	0.05
Magnesium (mg/L)	**P9-45R**	**2.975**	**19**	**17**	**Yes**	**8**	**0**	**0.05**
Manganese (mg/L)	**P9-45R**	**-32.73**	**-22**	**-17**	**Yes**	**8**	**0**	**0.05**
Manganese-Dissolved (mg/l)	**P9-45R**	**-27.29**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Nitrate (ug/L)	P9-45R	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P9-45R	0	0	17	No	8	100	0.05
Potassium (mg/L)	**P9-45R**	**-0.5742**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Sodium (mg/L)	P9-45R	1.42	6	17	No	8	0	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Sulfate (mg/L)	P9-45R	10.56	10	17	No	8	0	0.05
TDS (mg/L)	P9-45R	45.93	15	17	No	8	0	0.05
Alkalinity (mg/L)	P11-52	-30.54	-5	-17	No	8	0	0.05
Ammonia (ug/L)	P11-52	-453	-14	-17	No	8	0	0.05
Arsenic (ug/L)	P11-52	0	0	17	No	8	100	0.05
Barium (mg/L)	P11-52	-0.02655	-5	-17	No	8	0	0.05
Calcium (mg/L)	P11-52	-5.225	-3	-17	No	8	0	0.05
Chloride (mg/L)	P11-52	-0.1885	-2	-17	No	8	0	0.05
COD (ug/L)	P11-52	-333.9	-3	-17	No	8	12.5	0.05
Iron (mg/L)	P11-52	-0.3974	-3	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P11-52	0.4736	6	17	No	8	12.5	0.05
Magnesium (mg/L)	P11-52	-3.178	-11	-17	No	8	0	0.05
Manganese (mg/L)	P11-52	-36.23	-5	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P11-52	-77.38	-9	-17	No	8	0	0.05
Nitrate (ug/L)	P11-52	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P11-52	0	0	17	No	8	100	0.05
Potassium (mg/L)	P11-52	-0.7246	-12	-17	No	8	0	0.05
Sodium (mg/L)	P11-52	-3.688	-6	-17	No	8	0	0.05
Sulfate (mg/L)	P11-52	0.575	10	17	No	8	25	0.05
TDS (mg/L)	P11-52	-4.815	-1	-17	No	8	0	0.05
Alkalinity (mg/L)	P12-30R	52.08	14	17	No	8	0	0.05
Ammonia (ug/L)	P12-30R	-66.73	-17	-17	No	8	25	0.05
Arsenic (ug/L)	P12-30R	0.5445	7	17	No	8	25	0.05
Barium (mg/L)	P12-30R	0.03213	14	17	No	8	0	0.05
Calcium (mg/L)	P12-30R	11.06	16	17	No	8	0	0.05
Chloride (mg/L)	**P12-30R**	**4.094**	**19**	**17**	**Yes**	**8**	**0**	**0.05**
COD (ug/L)	**P12-30R**	**3019**	**18**	**17**	**Yes**	**8**	**62.5**	**0.05**
Iron (mg/L)	P12-30R	0.3812	7	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P12-30R	0.02733	6	17	No	8	0	0.05
Magnesium (mg/L)	P12-30R	1.359	5	17	No	8	0	0.05
Manganese (mg/L)	P12-30R	-52.62	-12	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P12-30R	-39.22	-6	-17	No	8	0	0.05
Nitrate (ug/L)	P12-30R	0	5	17	No	8	87.5	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Nitrite (mg/L)	P12-30R	0	0	17	No	8	100	0.05
Potassium (mg/L)	**P12-30R**	**0.9635**	**19**	**17**	**Yes**	**8**	**0**	**0.05**
Sodium (mg/L)	P12-30R	8.824	14	17	No	8	0	0.05
Sulfate (mg/L)	P12-30R	-5.485	-16	-17	No	8	0	0.05
TDS (mg/L)	P12-30R	53.49	17	17	No	8	0	0.05
Alkalinity (mg/L)	P12-40	71.45	16	17	No	8	0	0.05
Ammonia (ug/L)	P12-40	-35.84	-6	17	No	8	12.5	0.05
Arsenic (ug/L)	P12-40	-0.2892	-2	17	No	8	0	0.05
Barium (mg/L)	**P12-40**	**0.05029**	**25**	**17**	**Yes**	**8**	**0**	**0.05**
Calcium (mg/L)	**P12-40**	**11.12**	**22**	**17**	**Yes**	**8**	**0**	**0.05**
Chloride (mg/L)	**P12-40**	**2.161**	**19**	**17**	**Yes**	**8**	**0**	**0.05**
COD (ug/L)	**P12-40**	**3902**	**20**	**17**	**Yes**	**8**	**50**	**0.05**
Iron (mg/L)	P12-40	0.9705	8	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P12-40	1.009	12	17	No	8	0	0.05
Magnesium (mg/L)	P12-40	1.813	4	17	No	8	0	0.05
Manganese (mg/L)	P12-40	16.37	9	17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P12-40	19.43	13	17	No	8	0	0.05
Nitrate (ug/L)	P12-40	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P12-40	0	0	17	No	8	100	0.05
Potassium (mg/L)	**P12-40**	**0.6203**	**20**	**17**	**Yes**	**8**	**0**	**0.05**
Sodium (mg/L)	**P12-40**	**8.71**	**21**	**17**	**Yes**	**8**	**0**	**0.05**
Sulfate (mg/L)	**P12-40**	**-4.141**	**-18**	**-17**	**Yes**	**8**	**0**	**0.05**
TDS (mg/L)	P12-40	35.86	8	17	No	8	0	0.05
Alkalinity (mg/L)	P13-42	17.57	2	17	No	8	0	0.05
Ammonia (ug/L)	P13-42	-53.75	-6	-17	No	8	0	0.05
Arsenic (ug/L)	P13-42	-0.1431	-1	-17	No	8	0	0.05
Barium (mg/L)	**P13-42**	**0.01906**	**18**	**17**	**Yes**	**8**	**0**	**0.05**
Calcium (mg/L)	P13-42	0	3	17	No	8	0	0.05
Chloride (mg/L)	**P13-42**	**5.375**	**19**	**17**	**Yes**	**8**	**0**	**0.05**
COD (ug/L)	P13-42	3130	8	17	No	8	12.5	0.05
Iron (mg/L)	P13-42	1.267	13	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P13-42	0.8723	13	17	No	8	0	0.05
Magnesium (mg/L)	P13-42	0.6555	14	17	No	8	0	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Manganese (mg/L)	P13-42	0	1	17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P13-42	0	-3	-17	No	8	0	0.05
Nitrate (ug/L)	P13-42	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P13-42	0	0	17	No	8	100	0.05
Potassium (mg/L)	**P13-42**	**0.2441**	**18**	**17**	**Yes**	**8**	**0**	**0.05**
Sodium (mg/L)	P13-42	4.278	17	17	No	8	0	0.05
Sulfate (mg/L)	P13-42	-1.988	-13	-17	No	8	25	0.05
TDS (mg/L)	P13-42	12.61	13	17	No	8	0	0.05
Alkalinity (mg/L)	P14-40	-11.43	-10	-17	No	8	0	0.05
Ammonia (ug/L)	P14-40	-315.1	-13	-17	No	8	0	0.05
Arsenic (ug/L)	P14-40	-1.702	-13	-17	No	8	0	0.05
Barium (mg/L)	P14-40	-0.01213	-14	-17	No	8	0	0.05
Calcium (mg/L)	P14-40	0	10	17	No	8	0	0.05
Chloride (mg/L)	P14-40	-3.055	-16	-17	No	8	0	0.05
COD (ug/L)	P14-40	4086	17	17	No	8	0	0.05
Iron (mg/L)	P14-40	-0.4504	-13	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P14-40	-0.4082	-13	-17	No	8	0	0.05
Magnesium (mg/L)	**P14-40**	**-1.425**	**-18**	**-17**	**Yes**	**8**	**0**	**0.05**
Manganese (mg/L)	P14-40	13.52	13	17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P14-40	10.48	12	17	No	8	0	0.05
Nitrate (ug/L)	P14-40	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P14-40	0	0	17	No	8	100	0.05
Potassium (mg/L)	P14-40	-0.885	-15	-17	No	8	0	0.05
Sodium (mg/L)	**P14-40**	**-10.65**	**-20**	**-17**	**Yes**	**8**	**0**	**0.05**
Sulfate (mg/L)	P14-40	-2.992	-9	-17	No	8	0	0.05
TDS (mg/L)	**P14-40**	**-30.65**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Alkalinity (mg/L)	P15-35	-1.434	-2	-17	No	8	0	0.05
Ammonia (ug/L)	**P15-35**	**-41.6**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Arsenic (ug/L)	P15-35	0	4	17	No	8	0	0.05
Barium (mg/L)	P15-35	-0.003026	-13	-17	No	8	0	0.05
Calcium (mg/L)	P15-35	-2.5	-11	-17	No	8	0	0.05
Chloride (mg/L)	P15-35	-3.177	-17	-17	No	8	0	0.05
COD (ug/L)	P15-35	3734	16	17	No	8	37.5	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Iron (mg/L)	P15-35	-0.4224	-14	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P15-35	-0.2577	-10	-17	No	8	0	0.05
Magnesium (mg/L)	P15-35	-0.9283	-8	-17	No	8	0	0.05
Manganese (mg/L)	P15-35	-19.73	-8	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P15-35	-10.28	-6	-17	No	8	0	0.05
Nitrate (ug/L)	P15-35	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P15-35	0	0	17	No	8	100	0.05
Potassium (mg/L)	P15-35	0.148	6	17	No	8	0	0.05
Sodium (mg/L)	P15-35	0.6285	4	17	No	8	0	0.05
Sulfate (mg/L)	P15-35	0.1661	3	17	No	8	0	0.05
TDS (mg/L)	P15-35	-40.31	-14	-17	No	8	0	0.05
Alkalinity (mg/L)	P16-50	6.704	7	17	No	8	0	0.05
Ammonia (ug/L)	P16-50	-28.18	-15	-17	No	8	25	0.05
Arsenic (ug/L)	P16-50	0	-4	-17	No	8	0	0.05
Barium (mg/L)	P16-50	0	9	17	No	8	0	0.05
Calcium (mg/L)	P16-50	0	5	17	No	8	0	0.05
Chloride (mg/L)	P16-50	0.6552	11	17	No	8	0	0.05
COD (ug/L)	**P16-50**	**2851**	**18**	**17**	**Yes**	**8**	**62.5**	**0.05**
Iron (mg/L)	P16-50	-0.1999	-11	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P16-50	-0.01446	-4	-17	No	8	0	0.05
Magnesium (mg/L)	P16-50	0	-1	-17	No	8	0	0.05
Manganese (mg/L)	P16-50	6.504	15	17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P16-50	4.78	8	17	No	8	0	0.05
Nitrate (ug/L)	P16-50	0	0	17	No	8	100	0.05
Nitrite (mg/L)	P16-50	0	0	17	No	8	100	0.05
Potassium (mg/L)	P16-50	-0.06039	-10	-17	No	8	0	0.05
Sodium (mg/L)	P16-50	0.09432	6	17	No	8	0	0.05
Sulfate (mg/L)	P16-50	-1.578	-6	-17	No	8	0	0.05
TDS (mg/L)	P16-50	2.531	3	17	No	8	0	0.05
Alkalinity (mg/L)	P17-50	5.812	4	17	No	8	0	0.05
Ammonia (ug/L)	P17-50	-7.796	-7	-17	No	8	25	0.05
Arsenic (ug/L)	P17-50	0.425	15	17	No	8	0	0.05
Barium (mg/L)	**P17-50**	**0.008444**	**19**	**17**	**Yes**	**8**	**0**	**0.05**

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Calcium (mg/L)	**P17-50**	**4.264**	**18**	**17**	**Yes**	**8**	**0**	**0.05**
Chloride (mg/L)	P17-50	0.5474	15	17	No	8	0	0.05
COD (ug/L)	P17-50	2159	14	17	No	8	62.5	0.05
Iron (mg/L)	P17-50	0.2085	11	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P17-50	0.05201	5	17	No	8	0	0.05
Magnesium (mg/L)	P17-50	0.1608	8	17	No	8	0	0.05
Manganese (mg/L)	P17-50	-0.0178	-12	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P17-50	-10.16	-8	-17	No	8	0	0.05
Nitrate (ug/L)	P17-50	0	0	17	No	8	100	0.05
Nitrite (mg/L)	P17-50	0	0	17	No	8	100	0.05
Potassium (mg/L)	P17-50	0.03333	9	17	No	8	0	0.05
Sodium (mg/L)	P17-50	0.07063	9	17	No	8	0	0.05
Sulfate (mg/L)	P17-50	0.7675	6	17	No	8	0	0.05
TDS (mg/L)	P17-50	7.117	6	17	No	8	0	0.05
Alkalinity (mg/L)	P18-50	-9.754	-11	-17	No	8	0	0.05
Ammonia (ug/L)	P18-50	-17.83	-13	-17	No	8	12.5	0.05
Arsenic (ug/L)	P18-50	0	10	17	No	8	75	0.05
Barium (mg/L)	P18-50	0	5	17	No	8	0	0.05
Calcium (mg/L)	P18-50	-1.446	-9	-17	No	8	0	0.05
Chloride (mg/L)	P18-50	2.329	12	17	No	8	0	0.05
COD (ug/L)	P18-50	3027	14	17	No	8	62.5	0.05
Iron (mg/L)	P18-50	0.1202	7	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P18-50	-0.07627	-11	-17	No	8	0	0.05
Magnesium (mg/L)	P18-50	-0.7319	-14	-17	No	8	0	0.05
Manganese (mg/L)	P18-50	-6.108	-5	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P18-50	-11.49	-9	-17	No	8	0	0.05
Nitrate (ug/L)	P18-50	0	0	17	No	8	100	0.05
Nitrite (mg/L)	P18-50	0	0	17	No	8	100	0.05
Potassium (mg/L)	P18-50	-0.02891	-6	-17	No	8	0	0.05
Sodium (mg/L)	P18-50	-0.552	-10	-17	No	8	0	0.05
Sulfate (mg/L)	**P18-50**	**5.409**	**22**	**17**	**Yes**	**8**	**0**	**0.05**
TDS (mg/L)	P18-50	-5.197	-8	-17	No	8	0	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Alkalinity (mg/L)	P19-50	9.116	7	17	No	8	0	0.05
Ammonia (ug/L)	P19-50	-52.34	-7	-17	No	8	0	0.05
Arsenic (ug/L)	P19-50	0	0	17	No	8	100	0.05
Barium (mg/L)	P19-50	-0.001668	-7	-17	No	8	0	0.05
Calcium (mg/L)	P19-50	-0.6302	-3	-17	No	8	0	0.05
Chloride (mg/L)	P19-50	-2.119	-8	-17	No	8	0	0.05
COD (ug/L)	**P19-50**	**3522**	**19**	**17**	**Yes**	**8**	**25**	**0.05**
Iron (mg/L)	P19-50	-0.1349	-6	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P19-50	-0.05405	-4	-17	No	8	0	0.05
Magnesium (mg/L)	P19-50	-0.6483	-12	-17	No	8	0	0.05
Manganese (mg/L)	P19-50	-3.051	-11	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P19-50	-1.445	-12	-17	No	8	0	0.05
Nitrate (ug/L)	P19-50	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P19-50	0	0	17	No	8	100	0.05
Potassium (mg/L)	P19-50	-0.1152	-12	-17	No	8	0	0.05
Sodium (mg/L)	P19-50	0.8156	9	17	No	8	0	0.05
Sulfate (mg/L)	P19-50	2.994	7	17	No	8	0	0.05
TDS (mg/L)	P19-50	-13.03	-7	-17	No	8	0	0.05
Alkalinity (mg/L)	P20-50	-16.67	-12	-17	No	8	0	0.05
Ammonia (ug/L)	P20-50	-39.85	-8	-17	No	8	12.5	0.05
Arsenic (ug/L)	P20-50	0	0	17	No	8	37.5	0.05
Barium (mg/L)	P20-50	0	0	17	No	8	0	0.05
Calcium (mg/L)	P20-50	0	-12	-17	No	8	0	0.05
Chloride (mg/L)	**P20-50**	**2.665**	**22**	**17**	**Yes**	**8**	**0**	**0.05**
COD (ug/L)	**P20-50**	**3737**	**18**	**17**	**Yes**	**8**	**75**	**0.05**
Iron (mg/L)	P20-50	-0.1782	-13	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P20-50	-0.09828	-10	-17	No	8	0	0.05
Magnesium (mg/L)	P20-50	-0.9091	-13	-17	No	8	0	0.05
Manganese (mg/L)	P20-50	-0.008536	-7	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P20-50	-15.24	-17	-17	No	8	0	0.05
Nitrate (ug/L)	P20-50	0	0	17	No	8	100	0.05
Nitrite (mg/L)	P20-50	0	0	17	No	8	100	0.05
Potassium (mg/L)	P20-50	0.01608	5	17	No	8	0	0.05
Sodium (mg/L)	P20-50	0	-3	-17	No	8	0	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Sulfate (mg/L)	**P20-50**	**5.857**	**23**	**17**	**Yes**	**8**	**0**	**0.05**
TDS (mg/L)	P20-50	12.26	7	17	No	8	0	0.05
Alkalinity (mg/L)	P21-47	3.051	4	17	No	8	0	0.05
Ammonia (ug/L)	P21-47	-138.1	-12	-17	No	8	0	0.05
Arsenic (ug/L)	P21-47	0	3	17	No	8	12.5	0.05
Barium (mg/L)	P21-47	-0.006912	-10	-17	No	8	0	0.05
Calcium (mg/L)	P21-47	0	1	17	No	8	0	0.05
Chloride (mg/L)	P21-47	-1.813	-7	-17	No	8	0	0.05
COD (ug/L)	P21-47	5204	15	17	No	8	25	0.05
Iron (mg/L)	P21-47	0	5	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P21-47	0	-5	-17	No	8	0	0.05
Magnesium (mg/L)	P21-47	0	-7	-17	No	8	0	0.05
Manganese (mg/L)	P21-47	-5.815	-8	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P21-47	-6.031	-8	-17	No	8	0	0.05
Nitrate (ug/L)	P21-47	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P21-47	0	0	17	No	8	100	0.05
Potassium (mg/L)	P21-47	-0.04183	-13	-17	No	8	0	0.05
Sodium (mg/L)	P21-47	0.9495	16	17	No	8	0	0.05
Sulfate (mg/L)	P21-47	-0.2578	-1	-17	No	8	0	0.05
TDS (mg/L)	P21-47	-12.7	-14	-17	No	8	0	0.05
Alkalinity (mg/L)	P22-45	-7.669	-7	17	No	8	0	0.05
Ammonia (ug/L)	P22-45	-56.65	-3	-17	No	8	0	0.05
Arsenic (ug/L)	P22-45	0	0	17	No	8	100	0.05
Barium (mg/L)	P22-45	0	3	17	No	8	0	0.05
Calcium (mg/L)	P22-45	0	0	17	No	8	0	0.05
Chloride (mg/L)	P22-45	-1.868	-11	-17	No	8	0	0.05
COD (ug/L)	P22-45	2120	7	17	No	8	12.5	0.05
Iron (mg/L)	P22-45	0	-3	-17	No	8	0	0.05
Iron-Dissolved (mg/l)	P22-45	0	1	17	No	8	0	0.05
Magnesium (mg/L)	**P22-45**	**-2.28**	**-20**	**-17**	**Yes**	**8**	**0**	**0.05**
Manganese (mg/L)	P22-45	0	-3	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P22-45	0	3	17	No	8	0	0.05
Nitrate (ug/L)	P22-45	0	7	17	No	8	100	0.05

Sanitas Sen's Slope/Mann Kendall Results Summary
Corrective Measures Progress Report - WestRock Paint Street Landfill

Constituent Name	Well	Sen's Slope Value (units per year)	Mann-Kendall Statistic	Mann-Kendall Critical Value	Trend Significant	N	% Non-Detect	Alpha
Nitrite (mg/L)	P22-45	0	0	17	No	8	100	0.05
Potassium (mg/L)	P22-45	0.08533	6	17	No	8	0	0.05
Sodium (mg/L)	**P22-45**	**1.861**	**23**	**17**	**Yes**	**8**	**0**	**0.05**
Sulfate (mg/L)	P22-45	-4.767	-14	-17	No	8	0	0.05
TDS (mg/L)	P22-45	-20.07	-13	-17	No	8	0	0.05
Alkalinity (mg/L)	P23-40	27.92	9	17	No	8	0	0.05
Ammonia (ug/L)	P23-40	-33.36	-2	-17	No	8	0	0.05
Arsenic (ug/L)	**P23-40**	**-1.139**	**-19**	**-17**	**Yes**	**8**	**0**	**0.05**
Barium (mg/L)	P23-40	0.003152	3	17	No	8	0	0.05
Calcium (mg/L)	P23-40	0	3	17	No	8	0	0.05
Chloride (mg/L)	P23-40	-1.629	-10	-17	No	8	0	0.05
COD (ug/L)	P23-40	1145	1	17	No	8	12.5	0.05
Iron (mg/L)	P23-40	0	0	17	No	8	0	0.05
Iron-Dissolved (mg/l)	P23-40	0	0	17	No	8	0	0.05
Magnesium (mg/L)	P23-40	0.8341	9	17	No	8	0	0.05
Manganese (mg/L)	P23-40	0	-2	-17	No	8	0	0.05
Manganese-Dissolved (mg/l)	P23-40	0	7	17	No	8	0	0.05
Nitrate (ug/L)	P23-40	0	7	17	No	8	100	0.05
Nitrite (mg/L)	P23-40	0	0	17	No	8	100	0.05
Potassium (mg/L)	P23-40	0	0	17	No	8	0	0.05
Sodium (mg/L)	P23-40	0	-6	-17	No	8	0	0.05
Sulfate (mg/L)	P23-40	0	7	17	No	8	75	0.05
TDS (mg/L)	P23-40	-8.877	-2	-17	No	8	0	0.05

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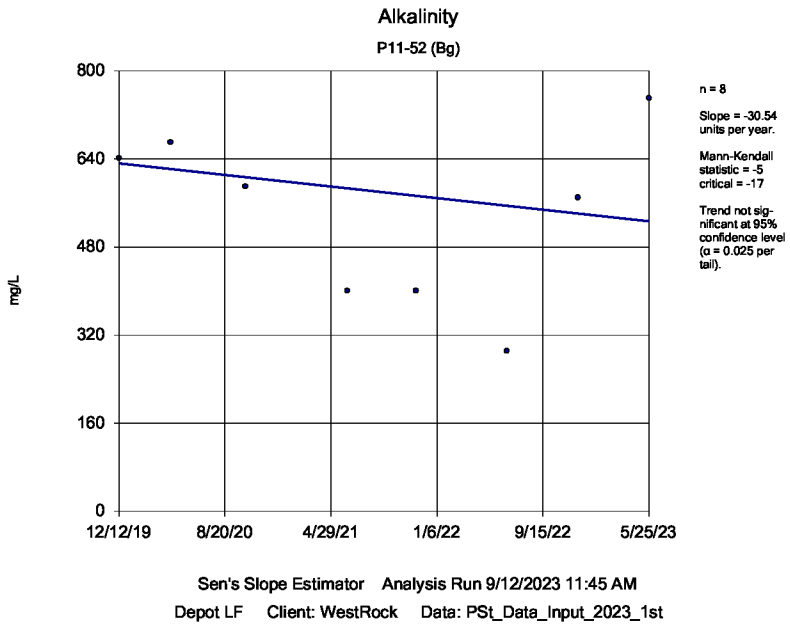

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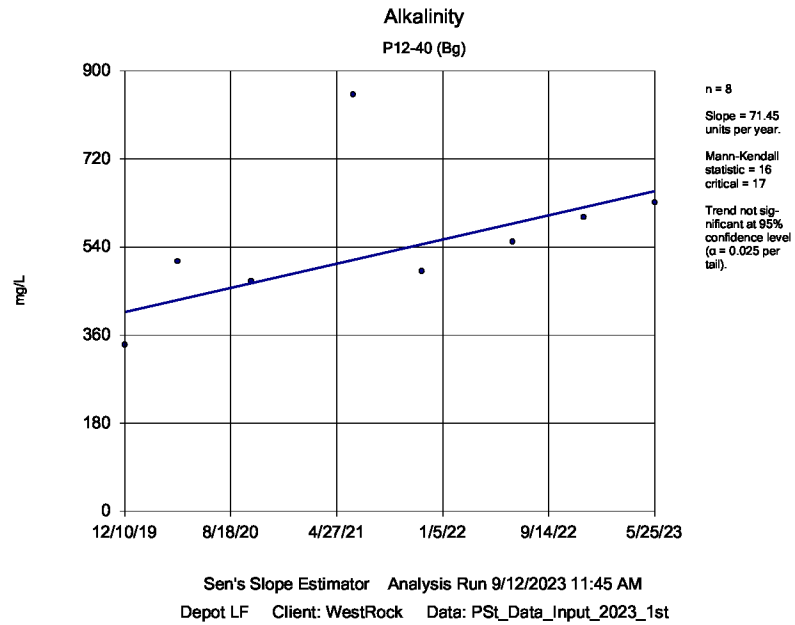

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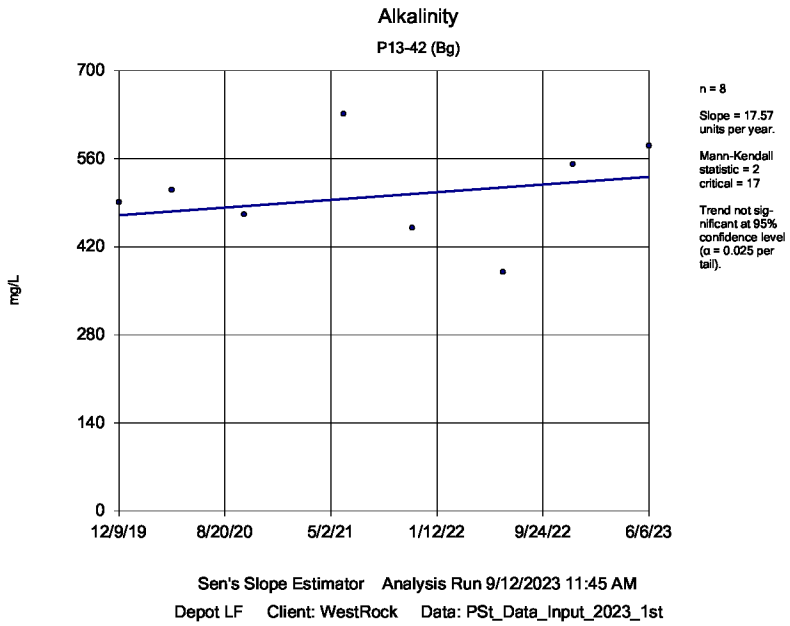

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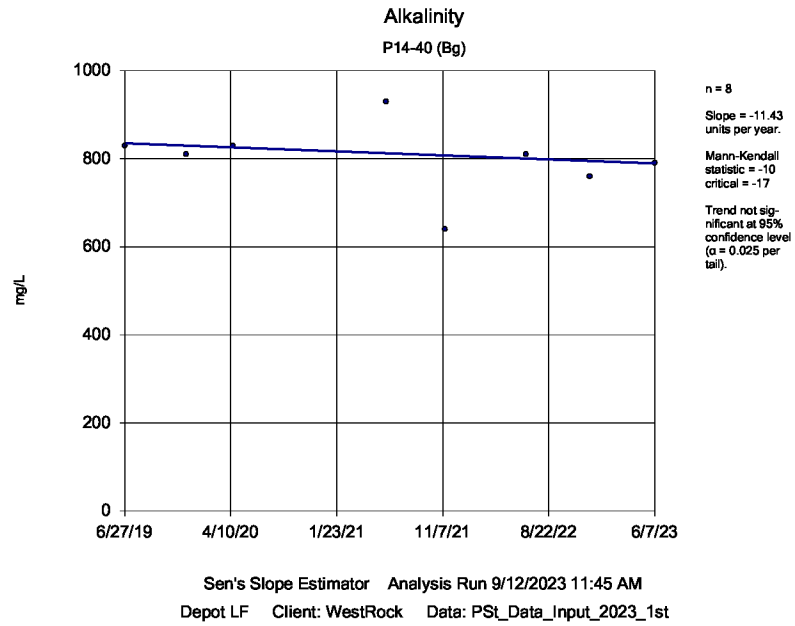

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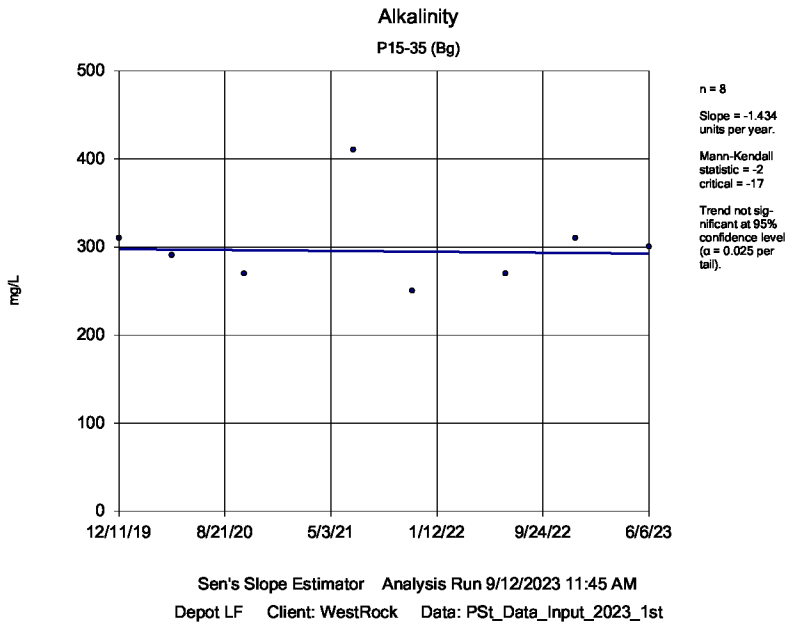

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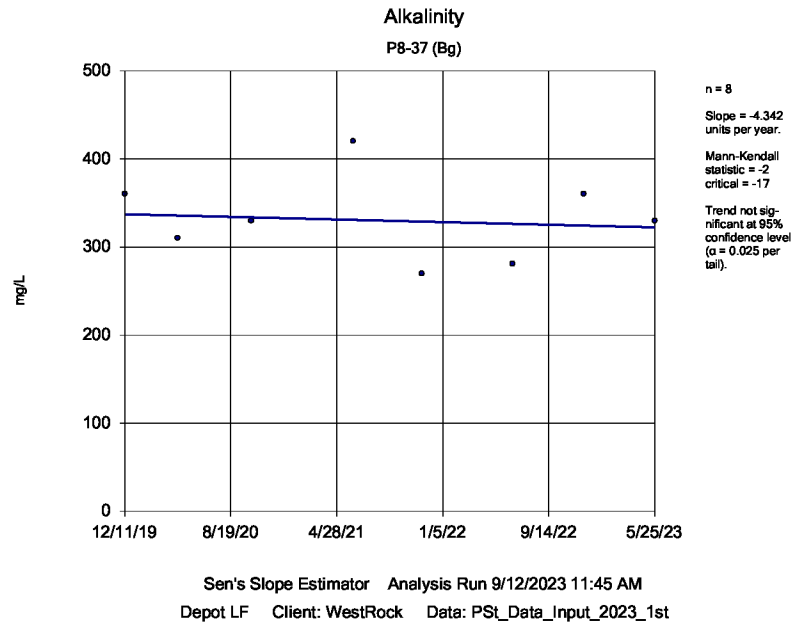

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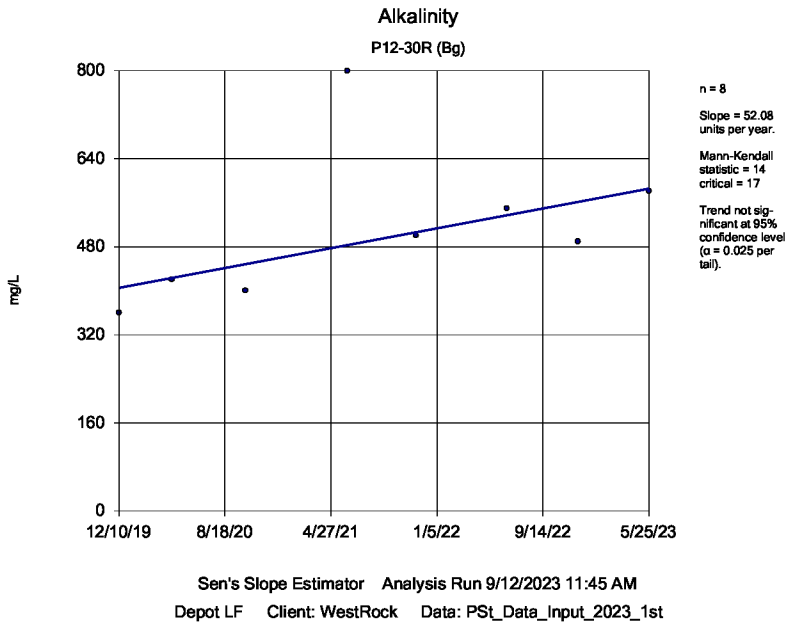

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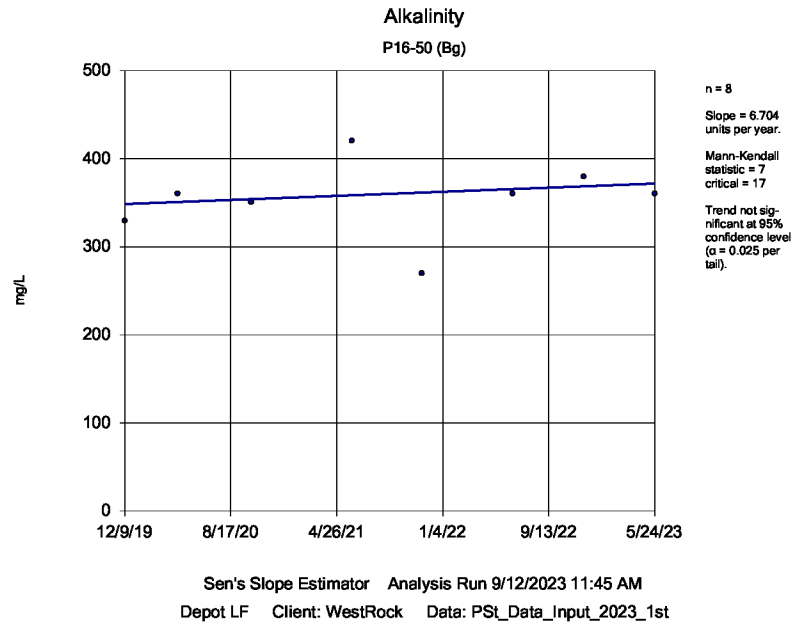

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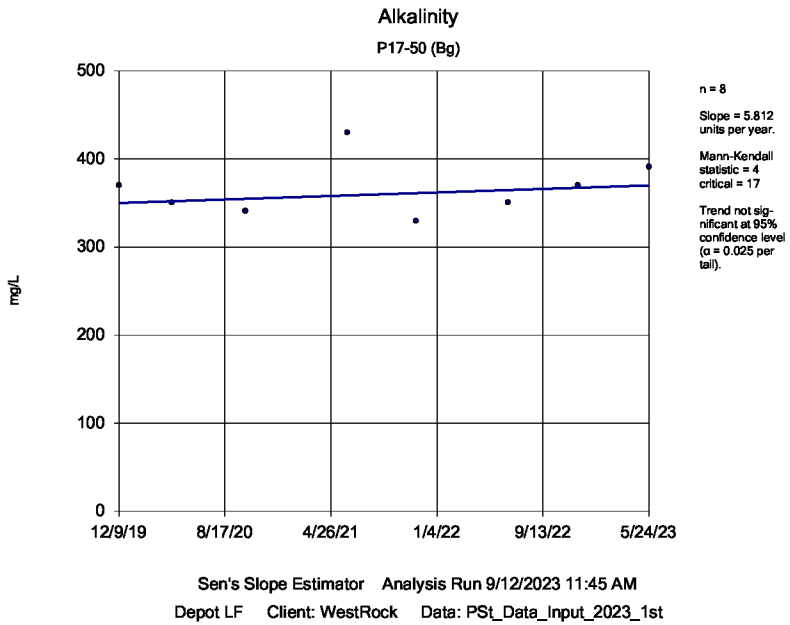

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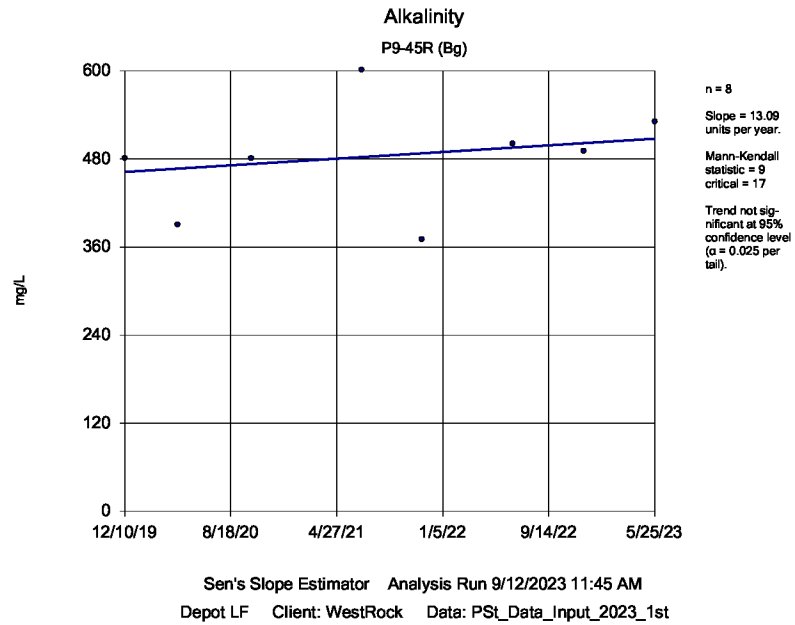

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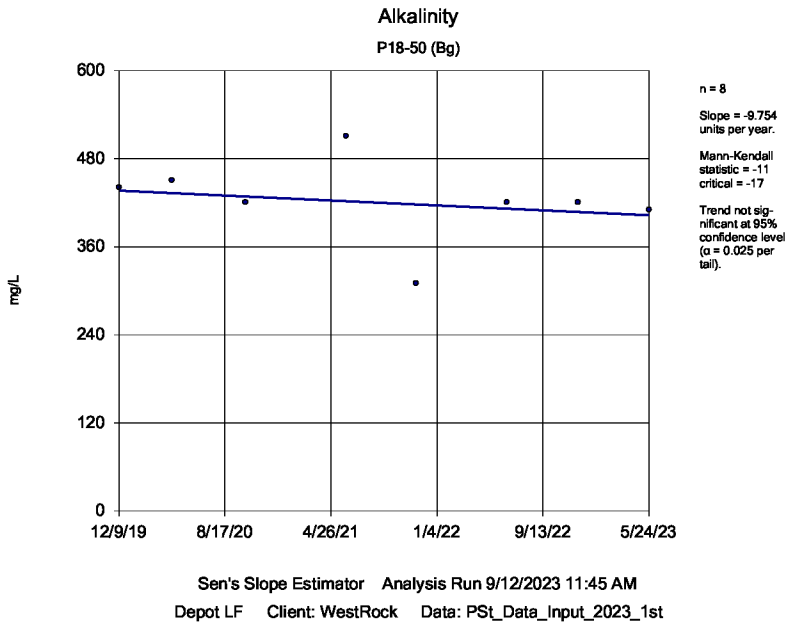

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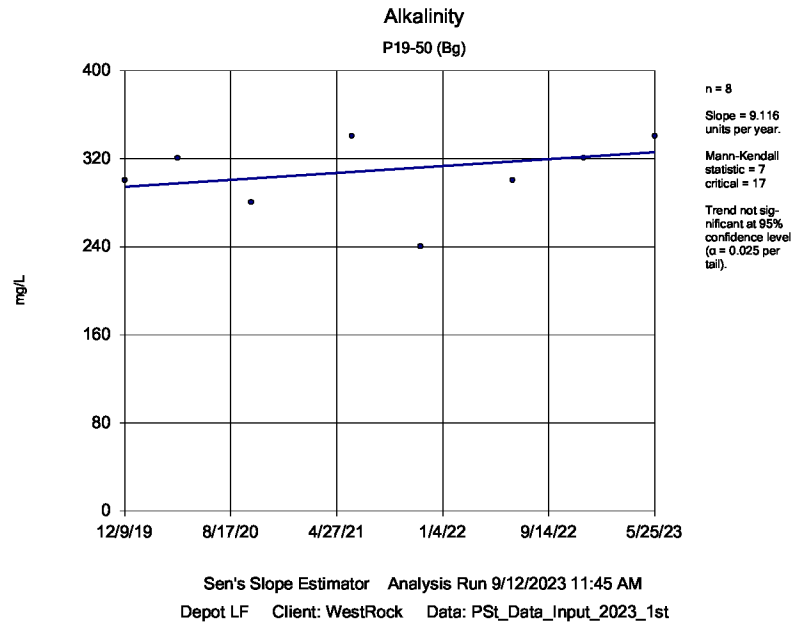

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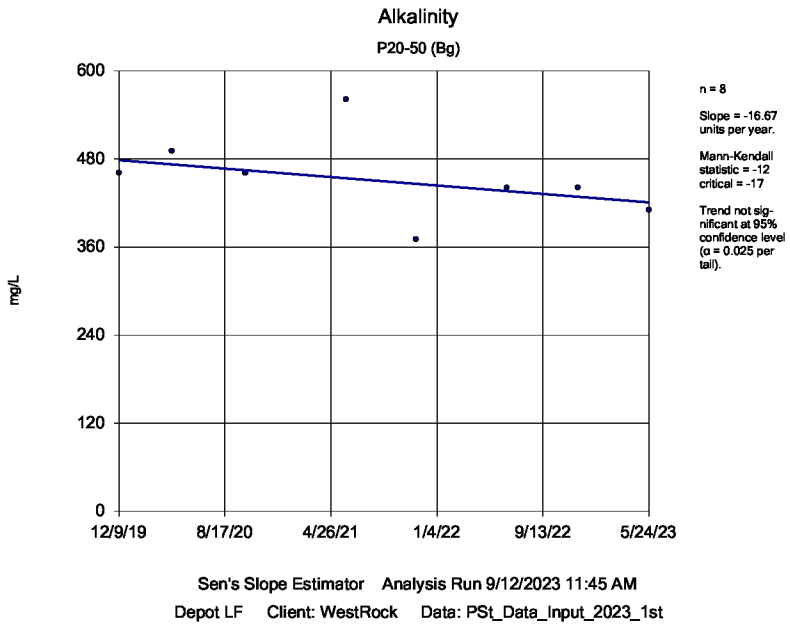

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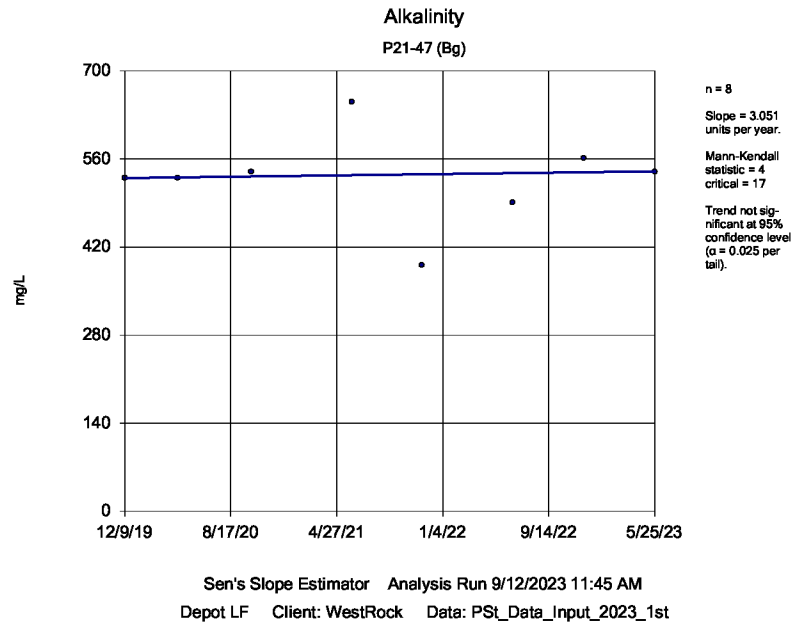
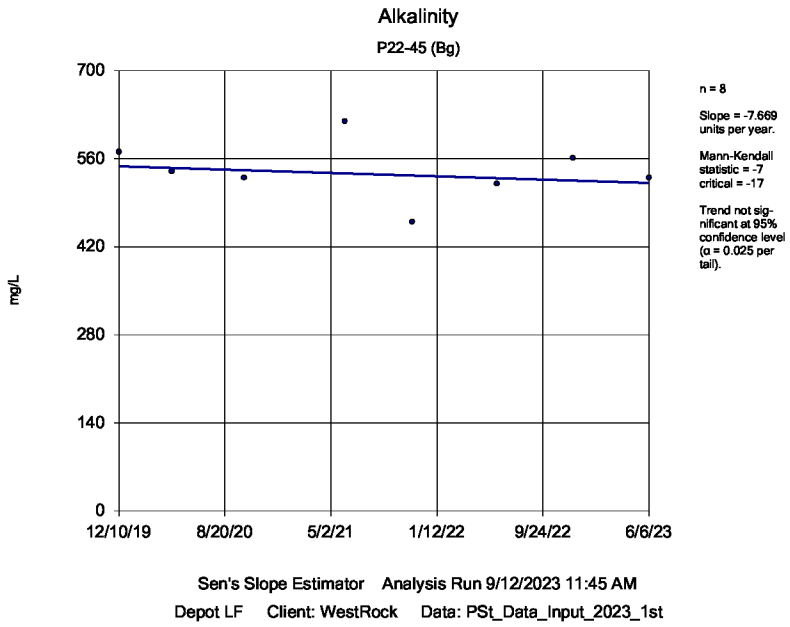


Sen's Slope Estimator Analysis Run 9/12/2023 11:45 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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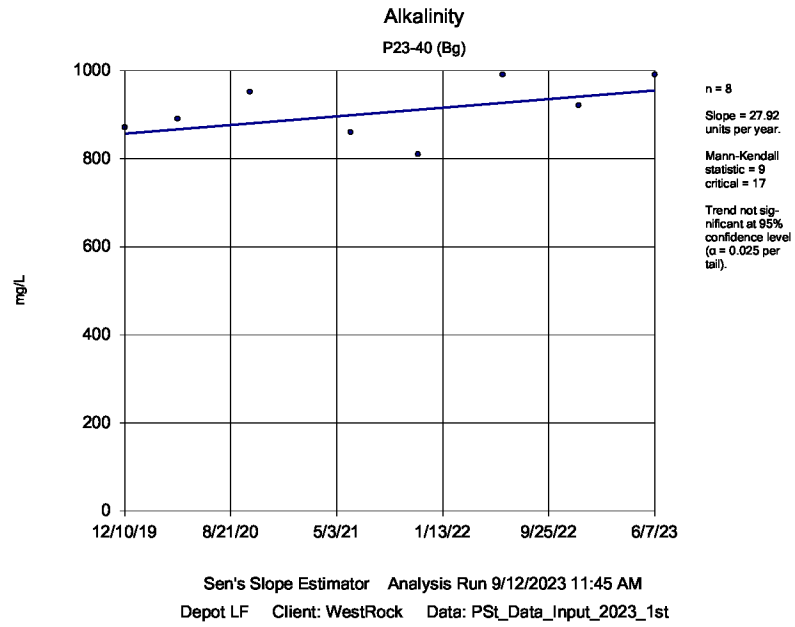

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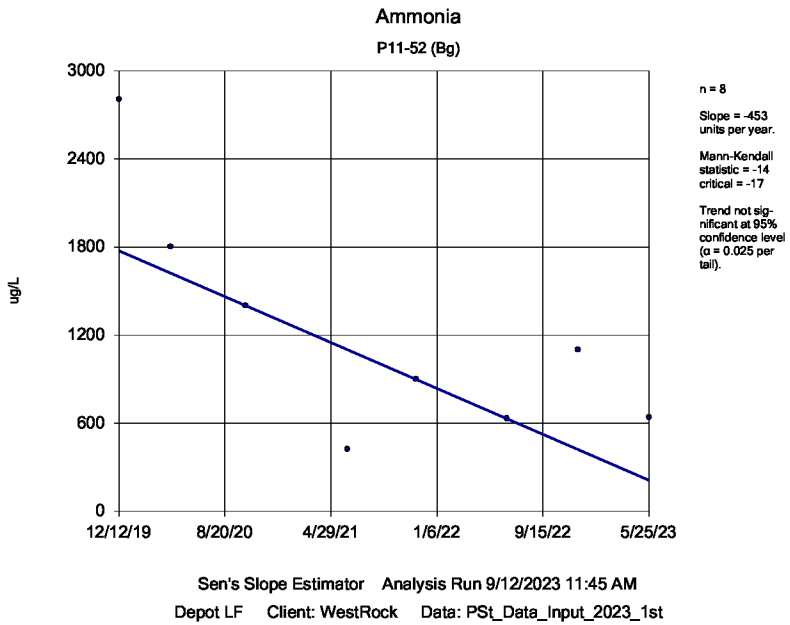

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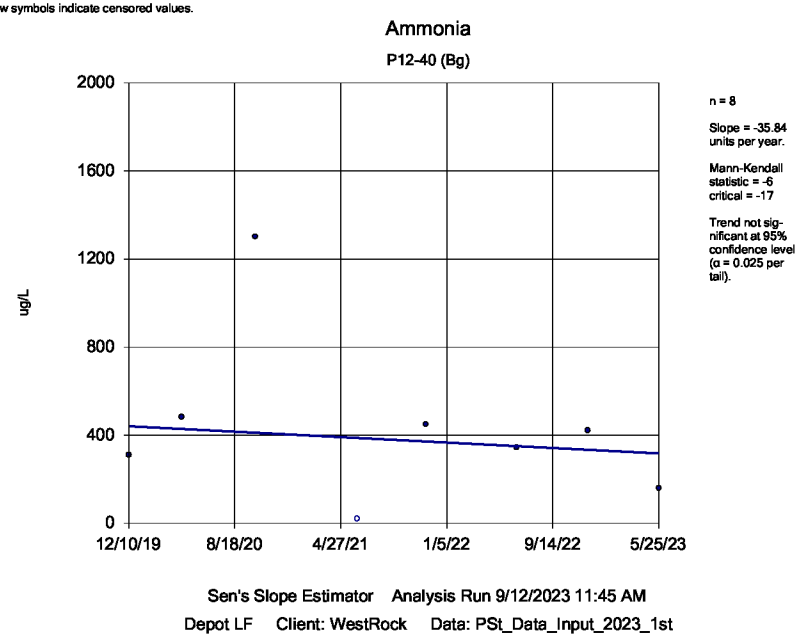

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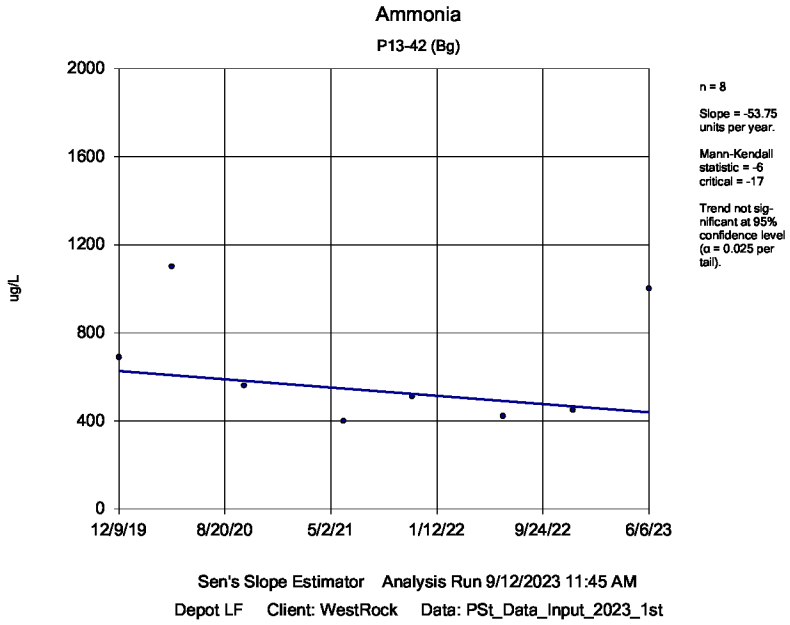

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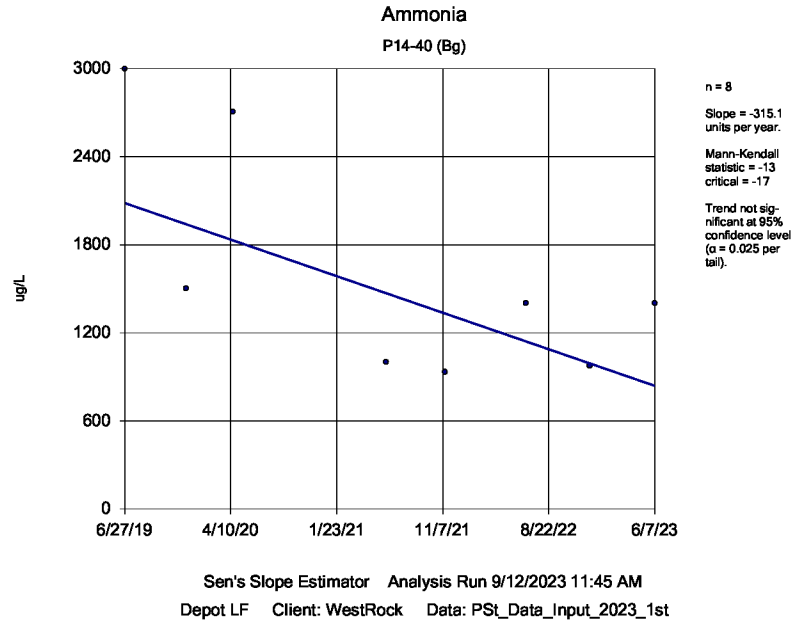

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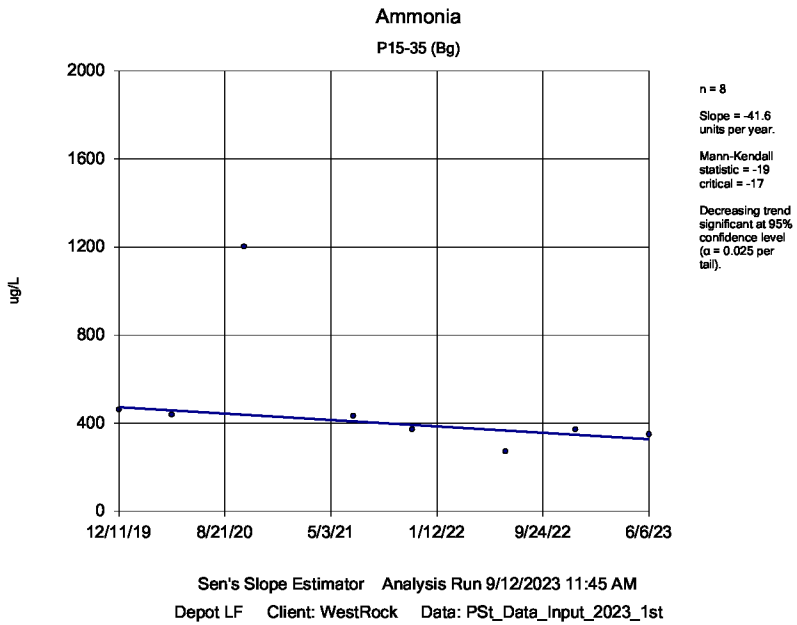

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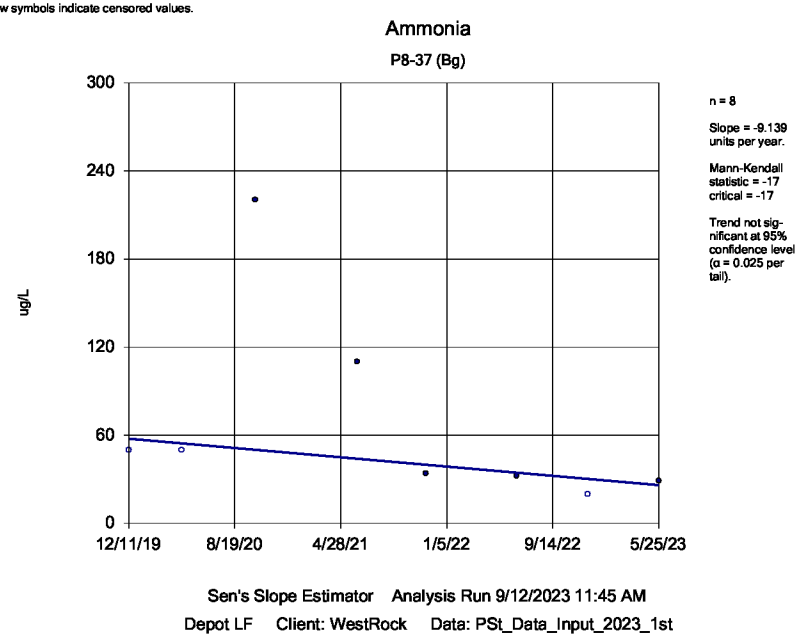

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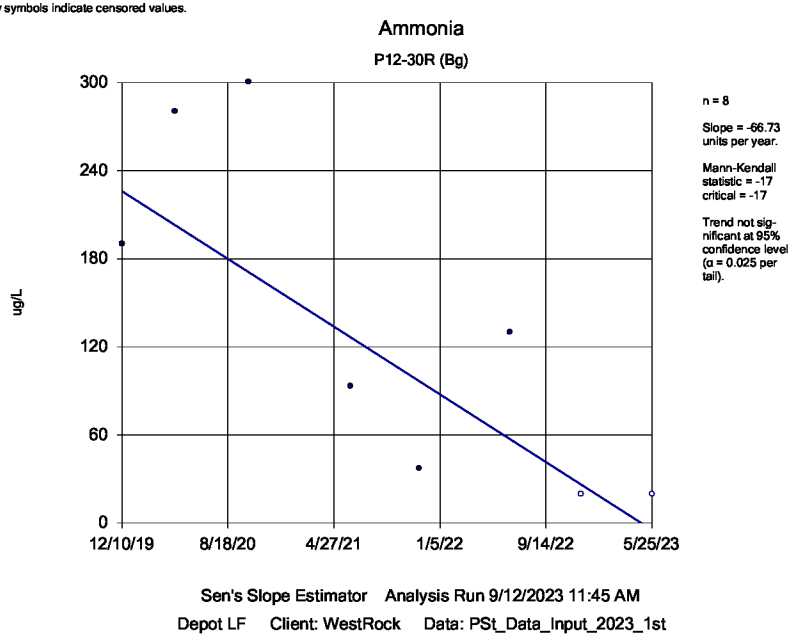

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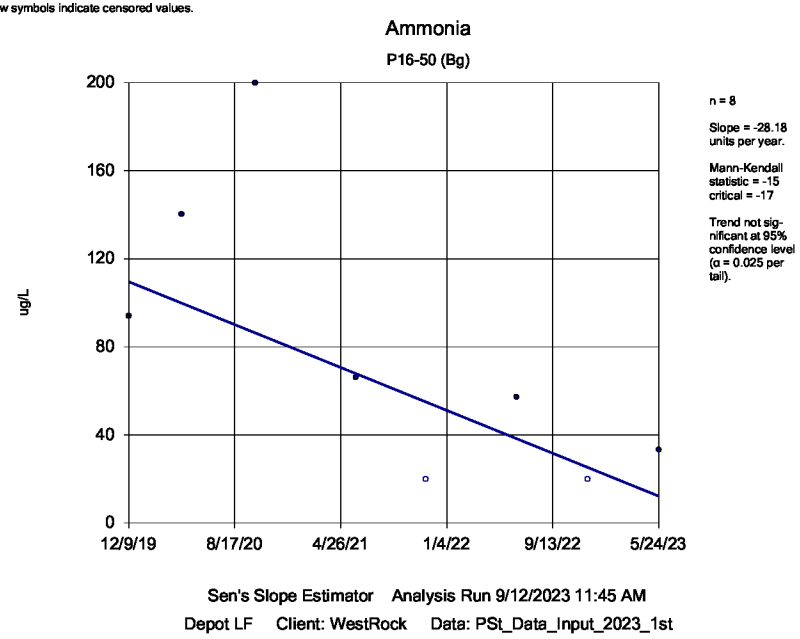

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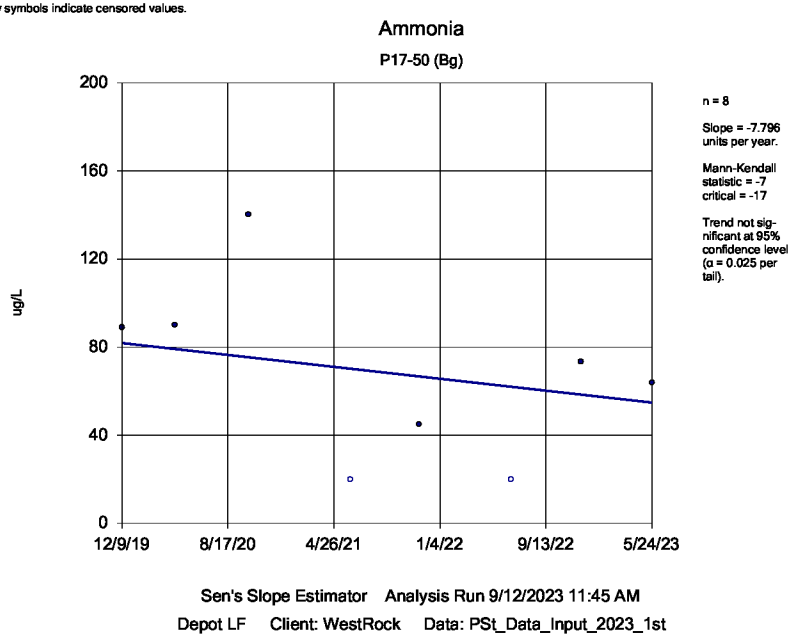

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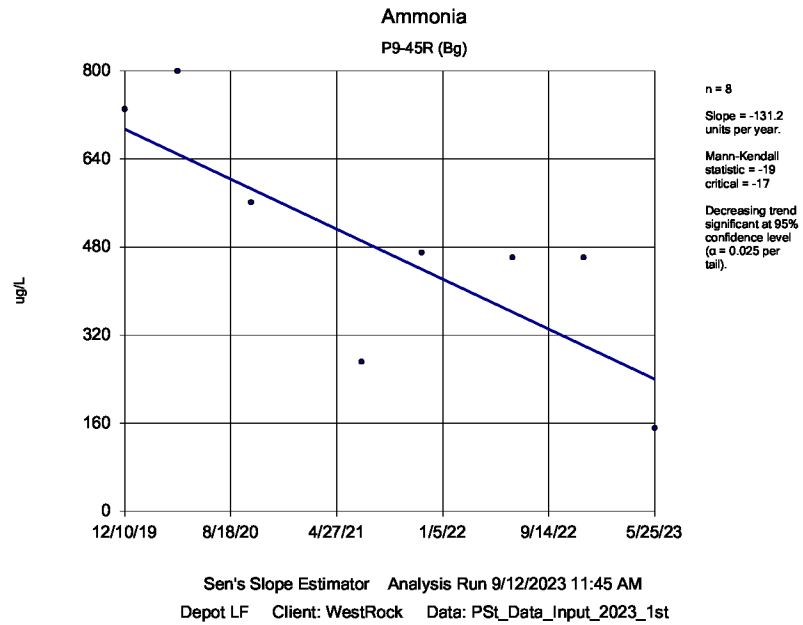

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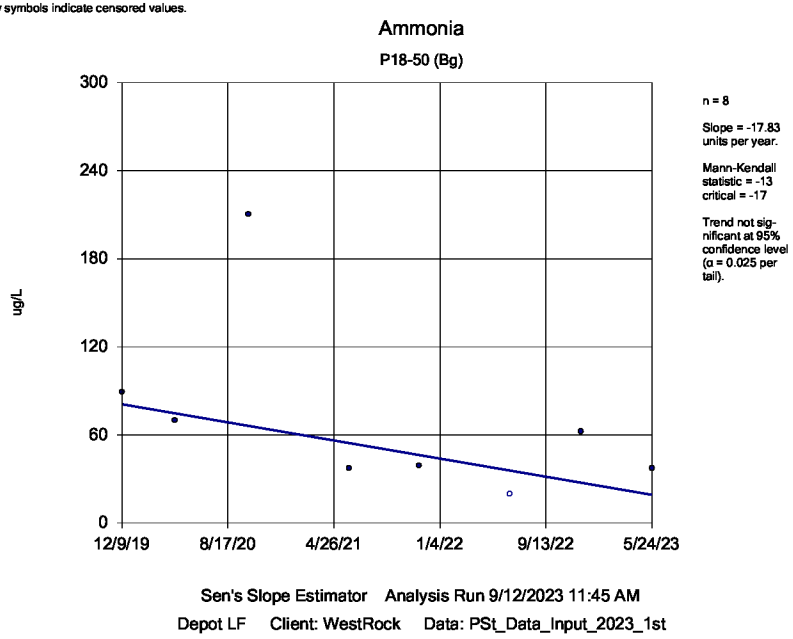

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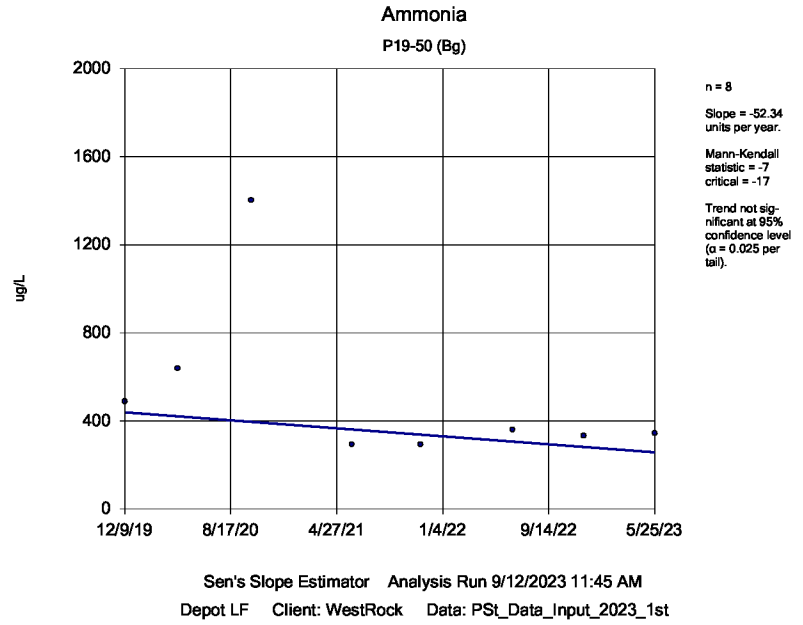

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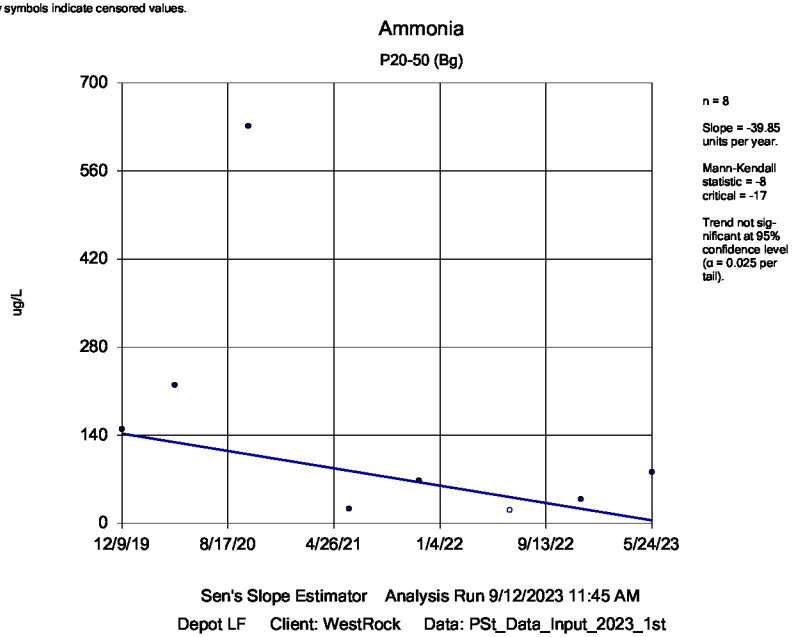

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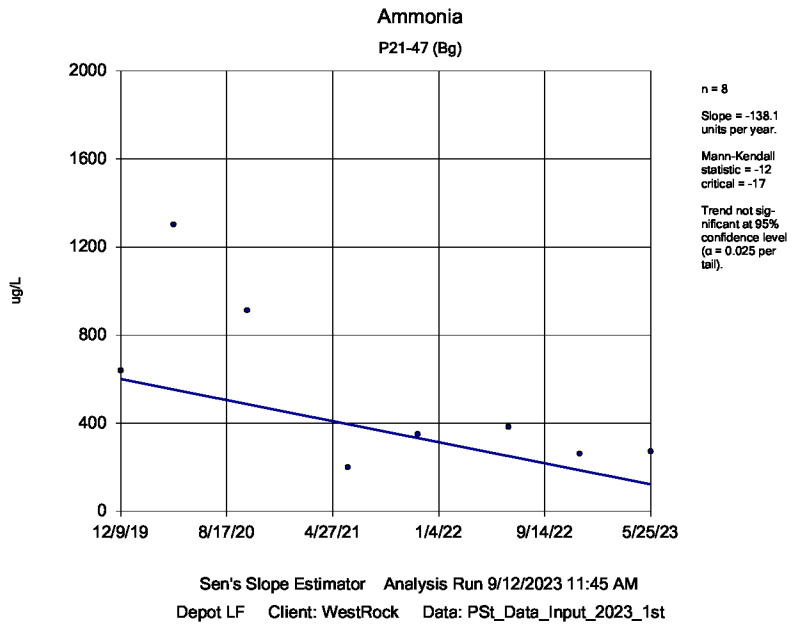

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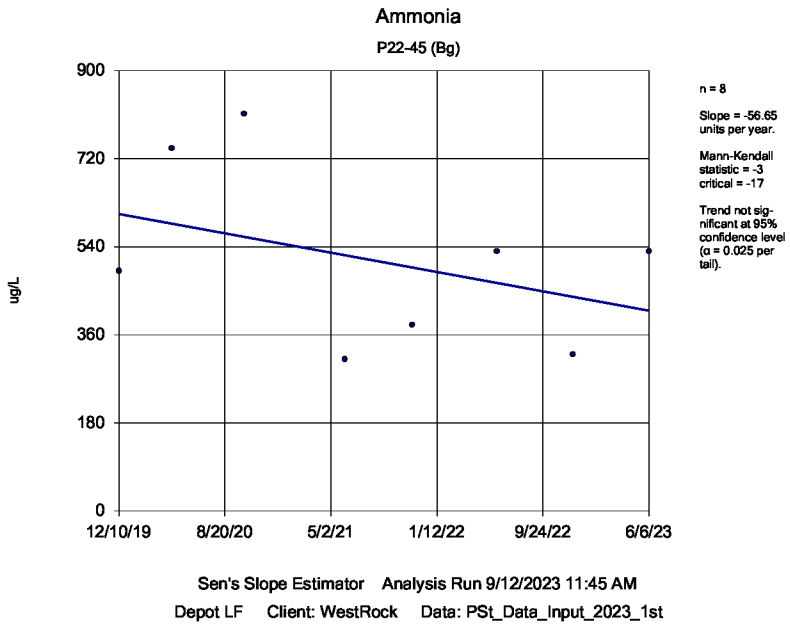

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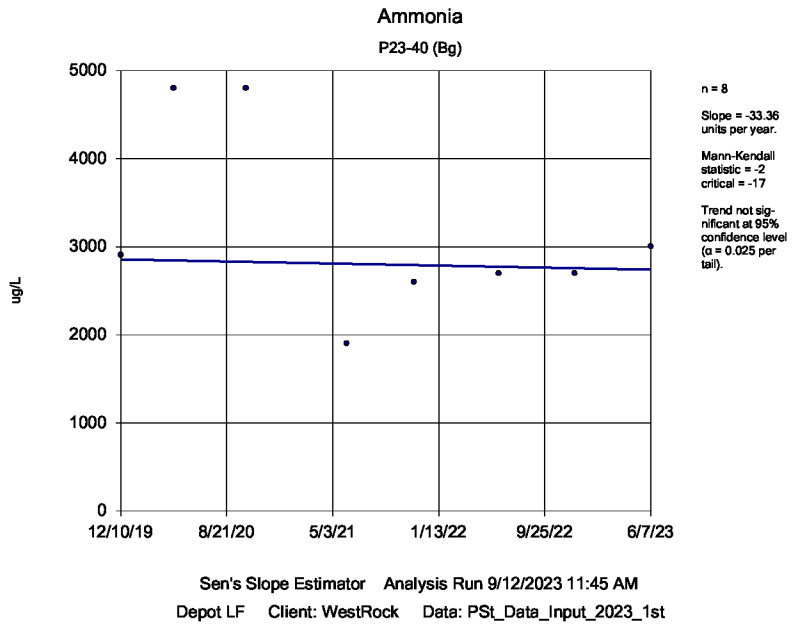

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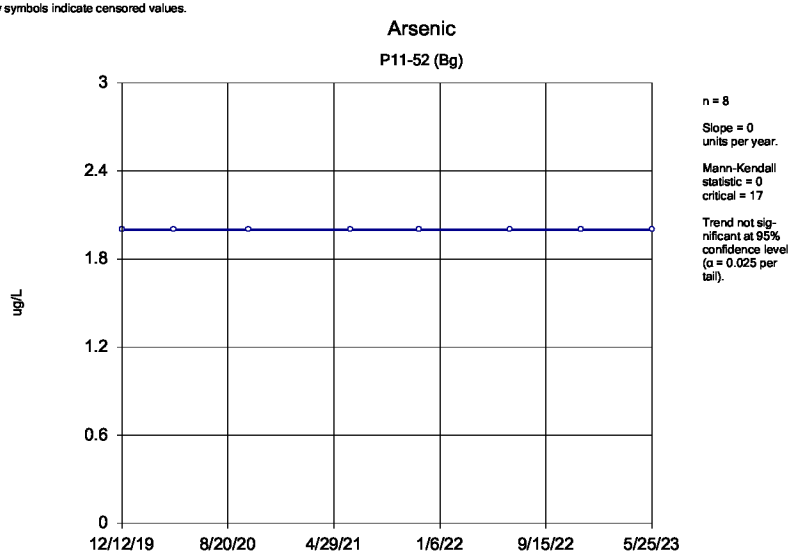

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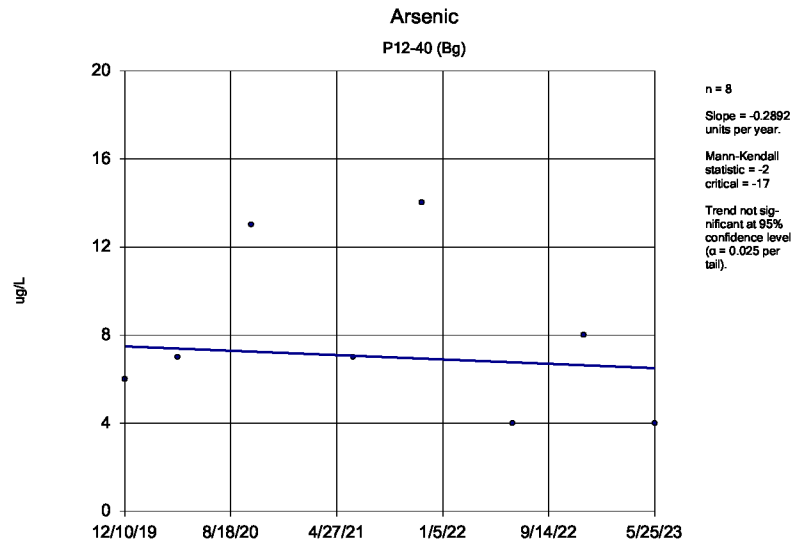

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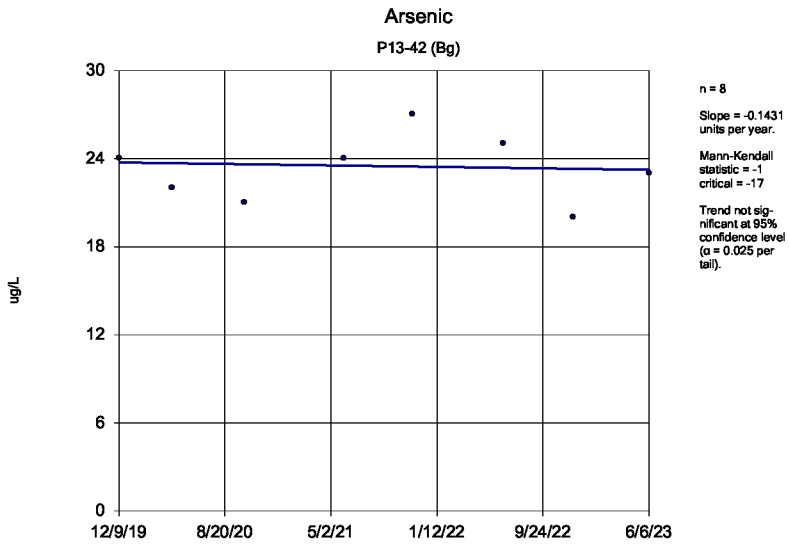

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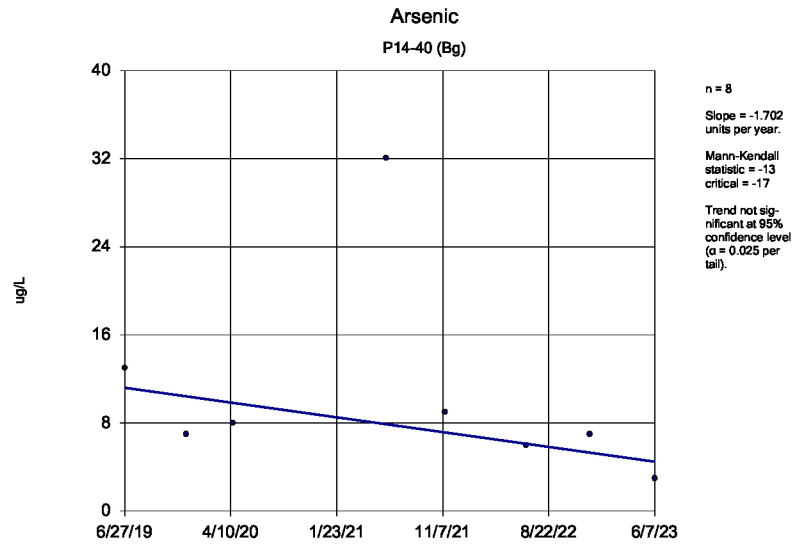

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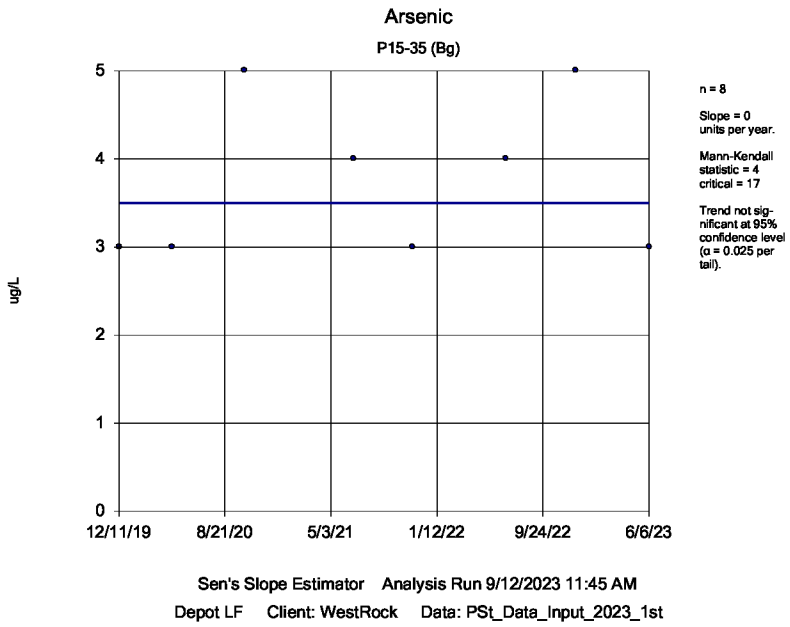

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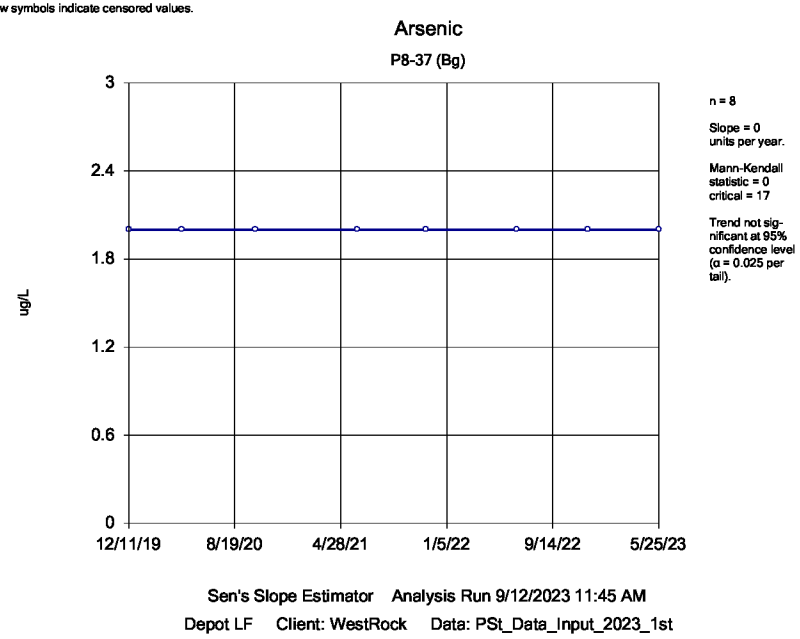

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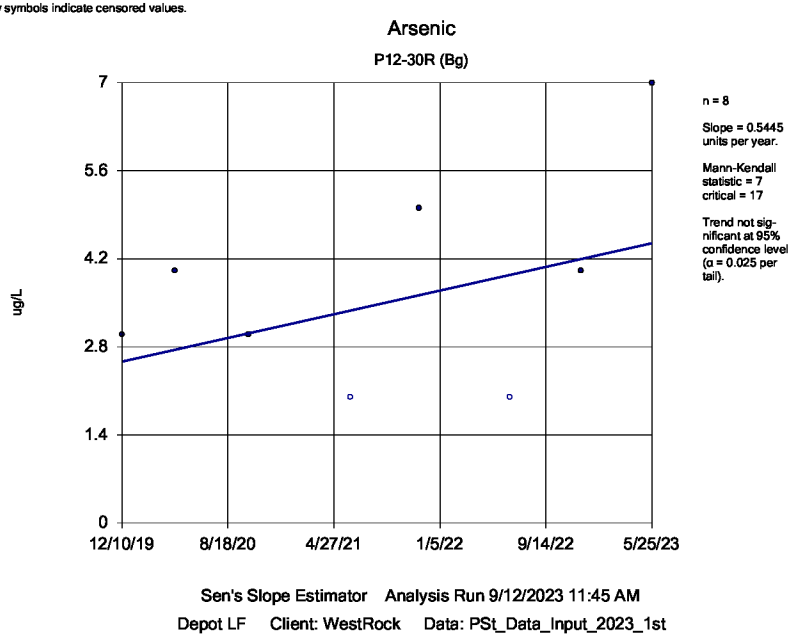

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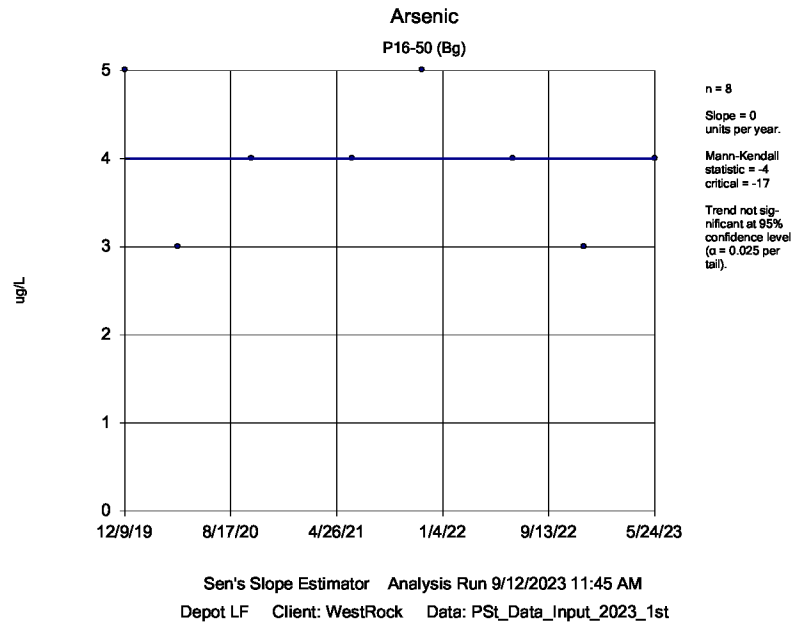

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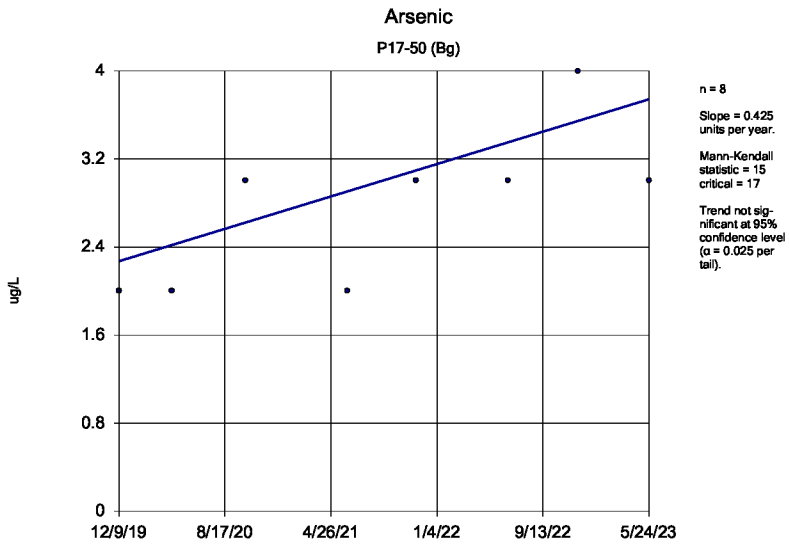

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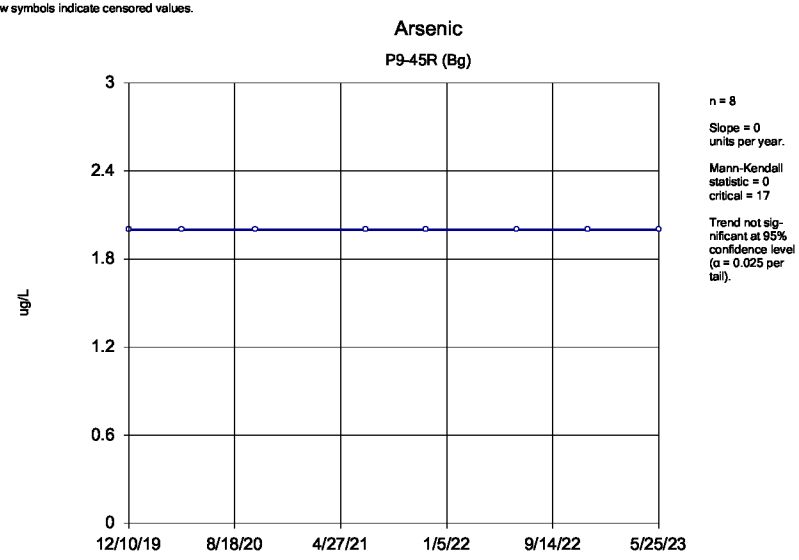

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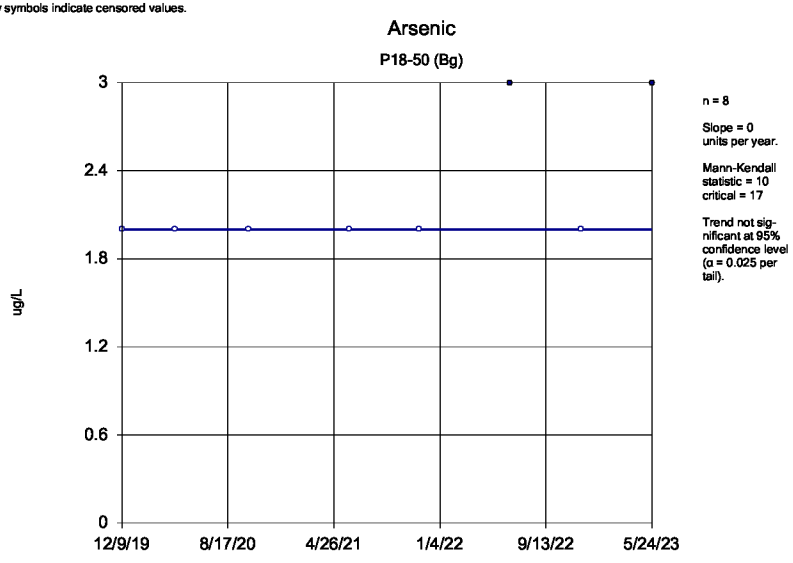

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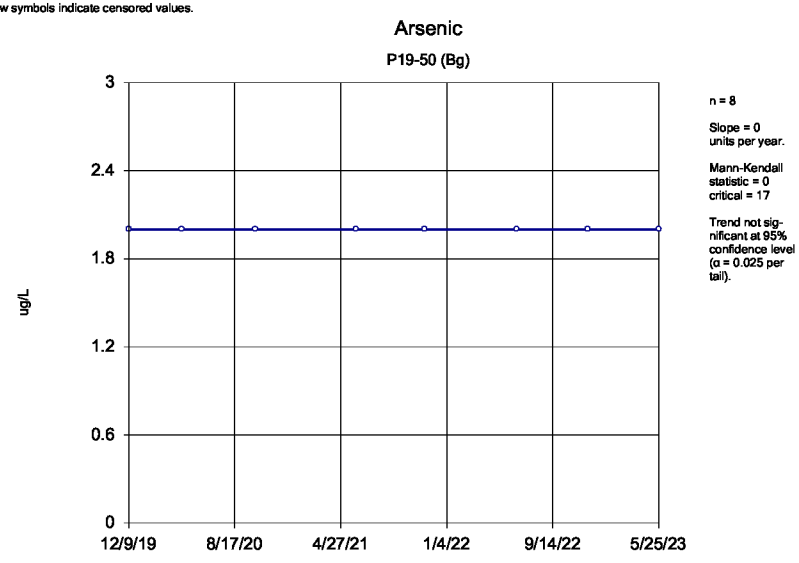

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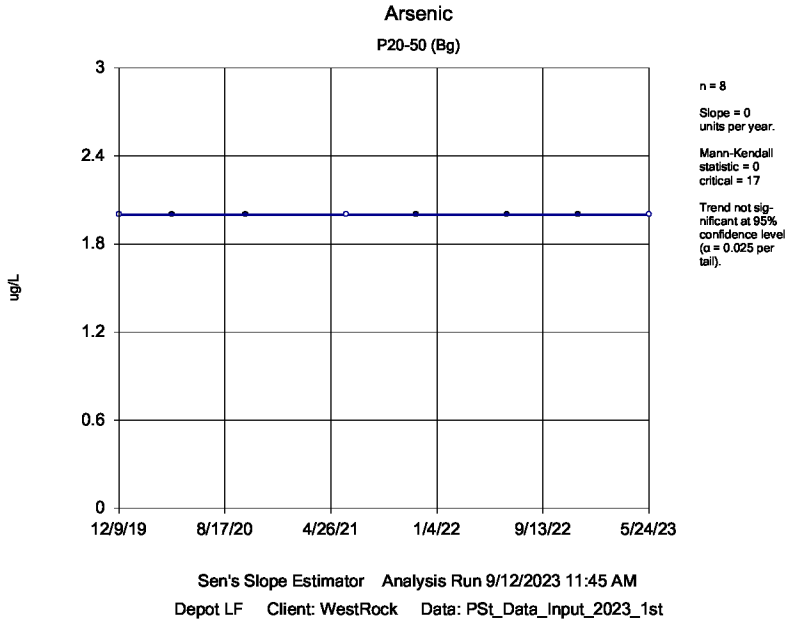

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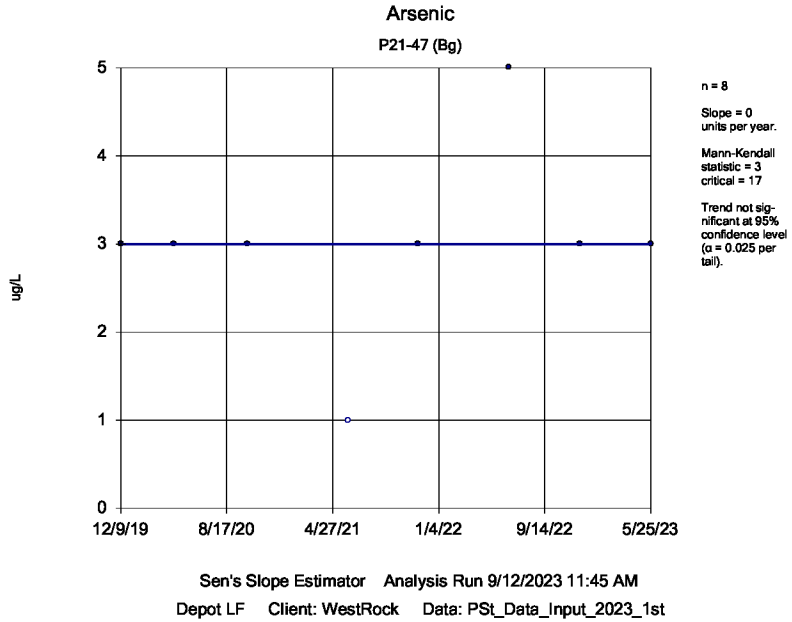

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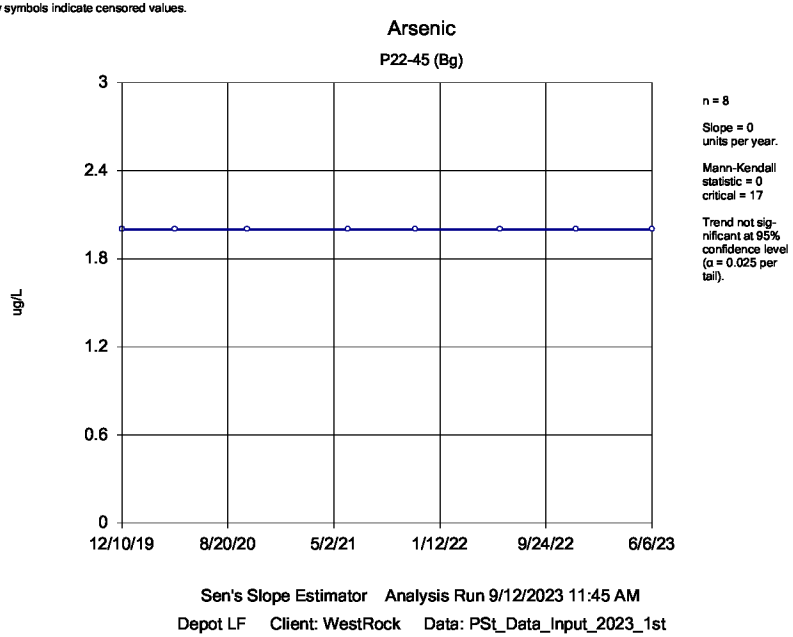

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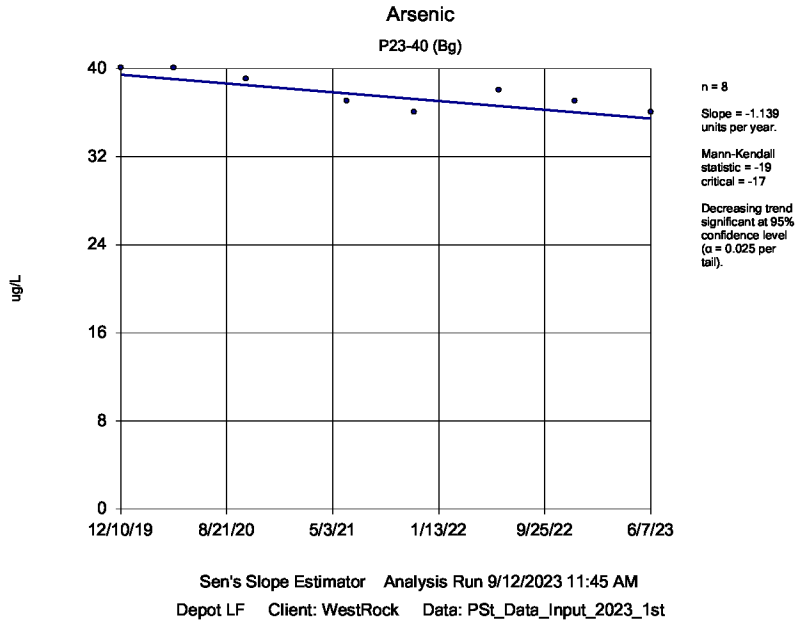

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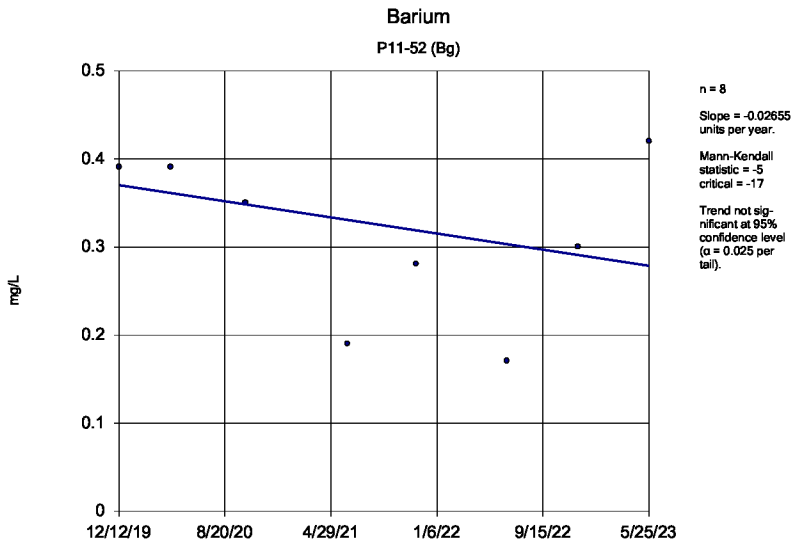

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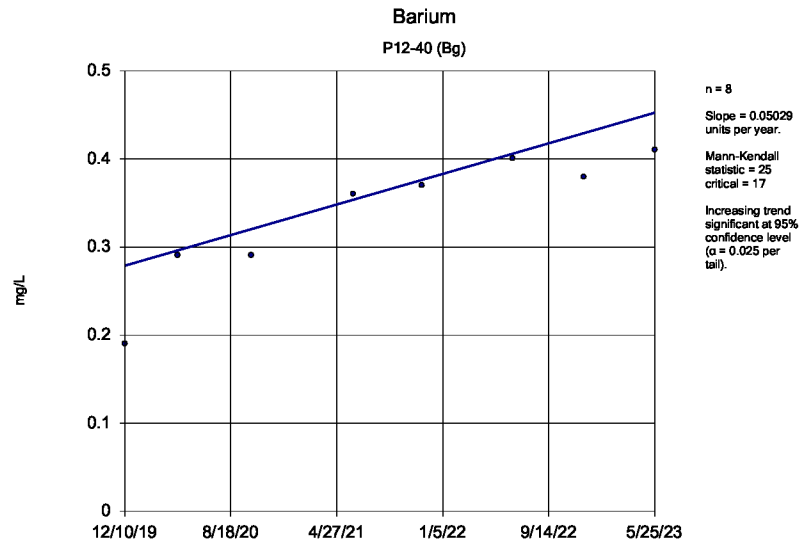

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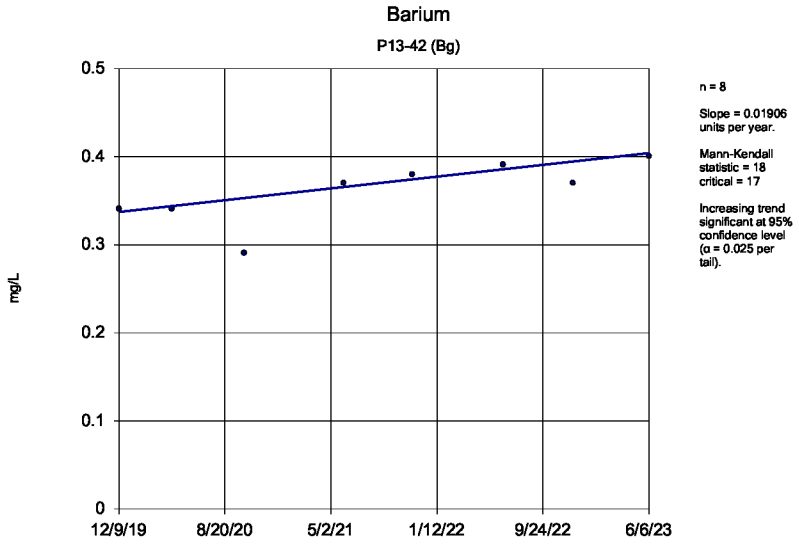

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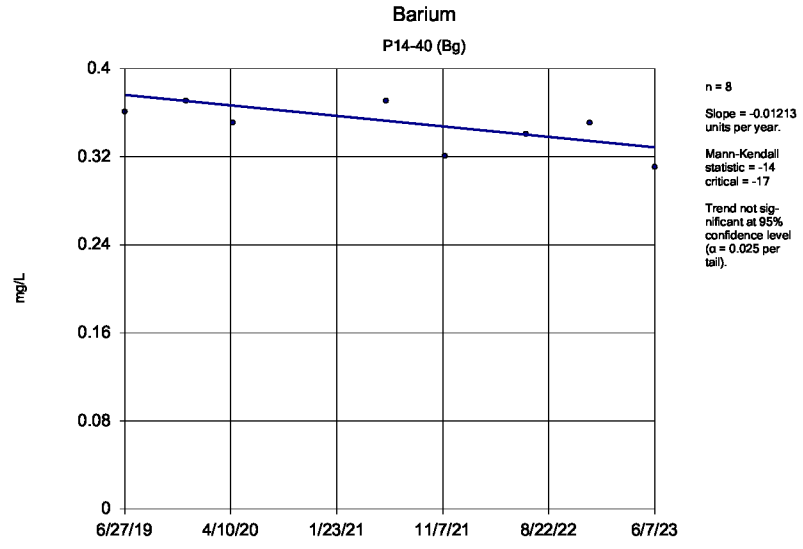

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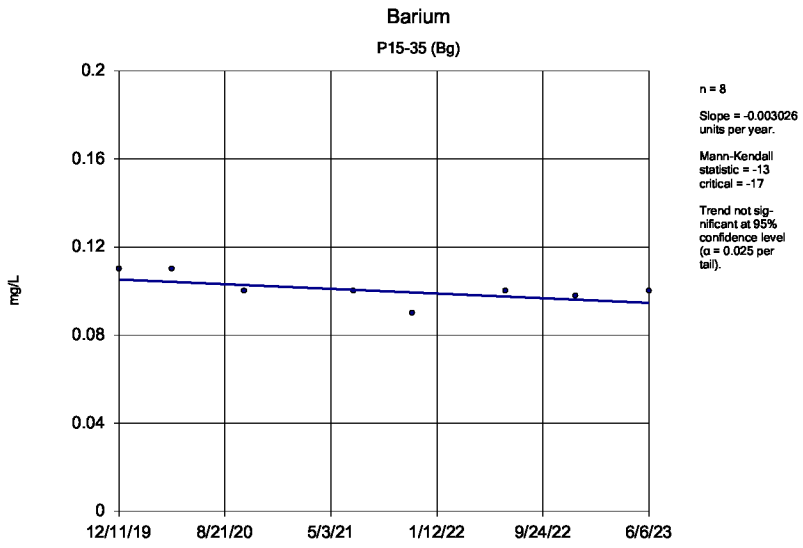

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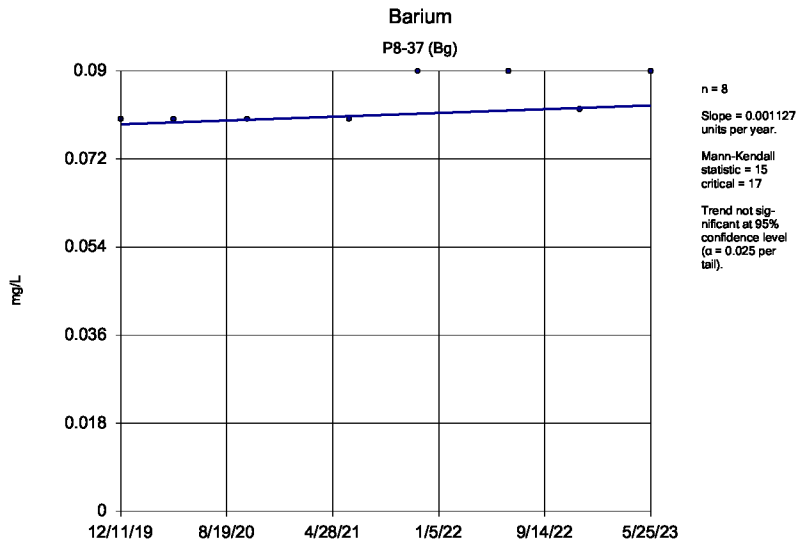

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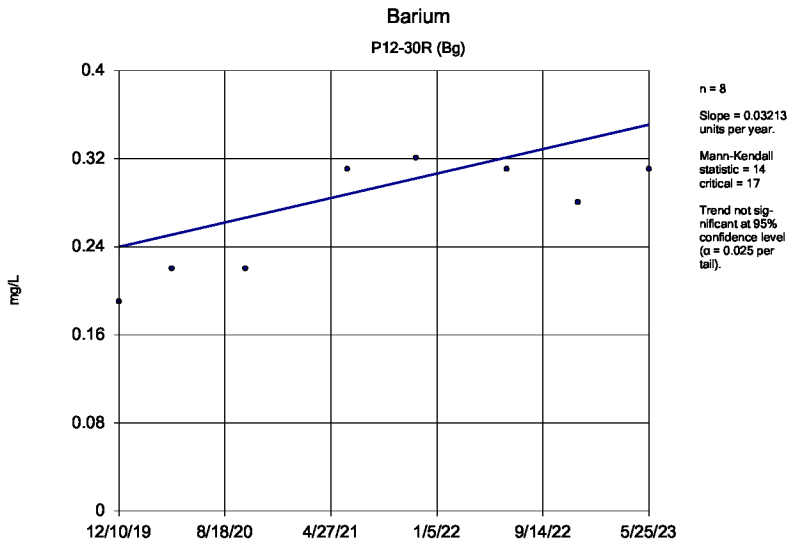

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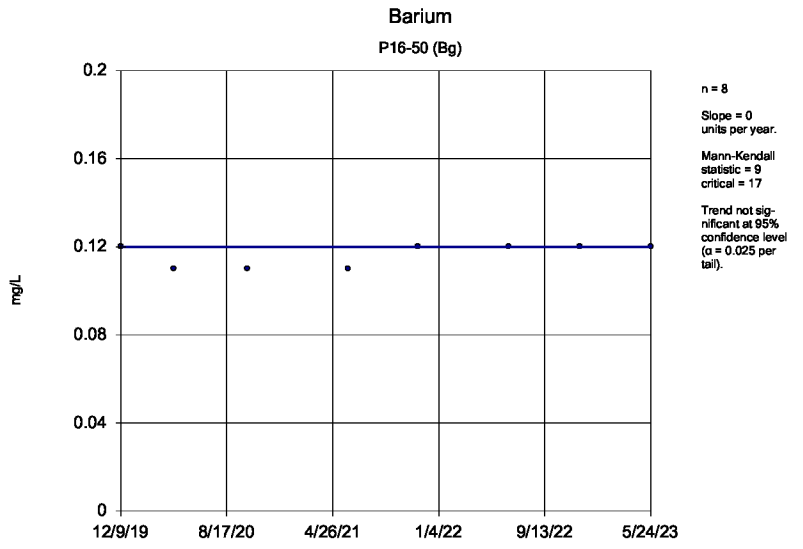

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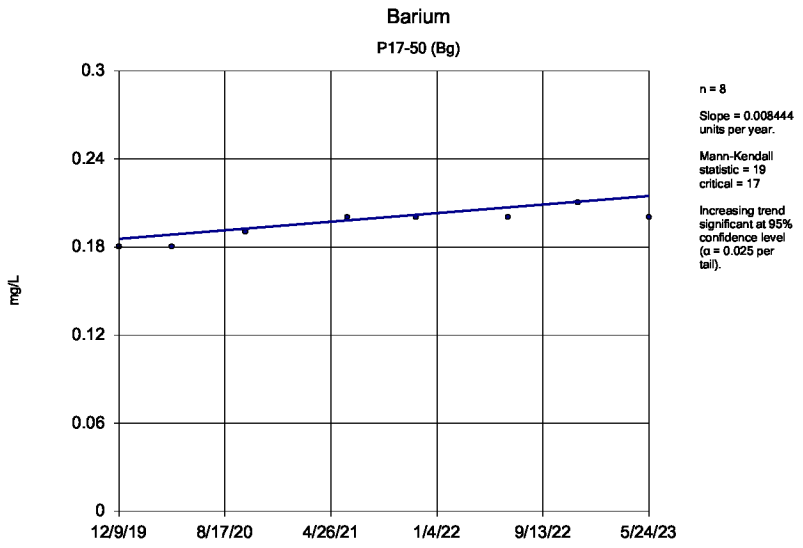

Sen's Slope Estimator Analysis Run 9/12/2023 11:45 AM
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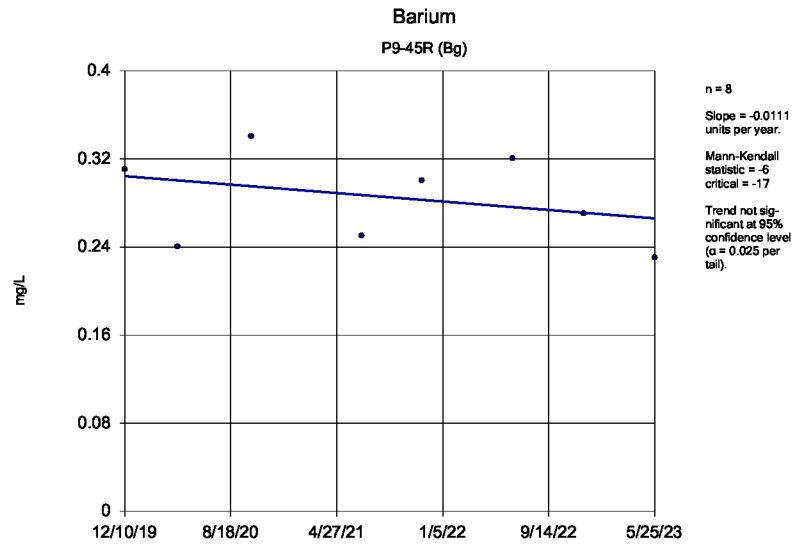
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:45 AM
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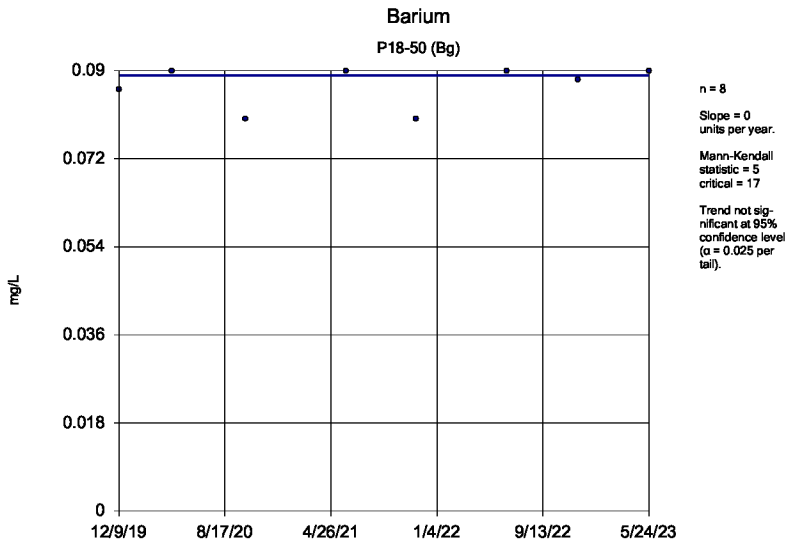

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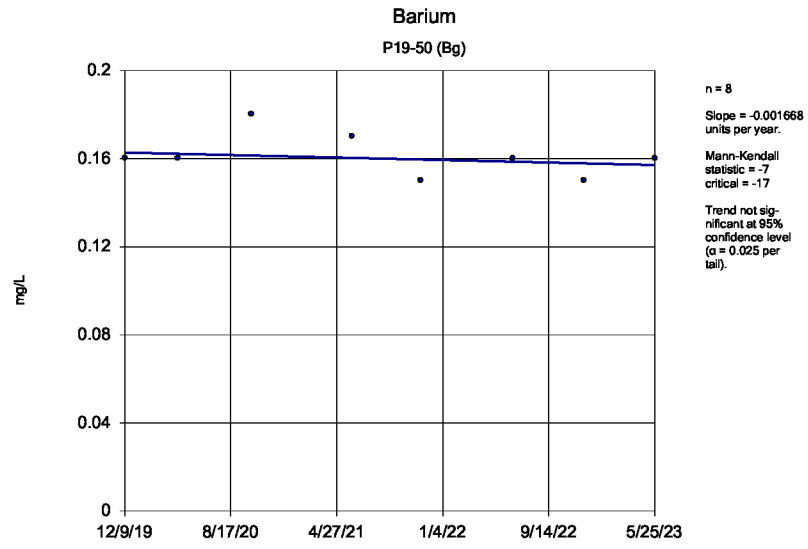

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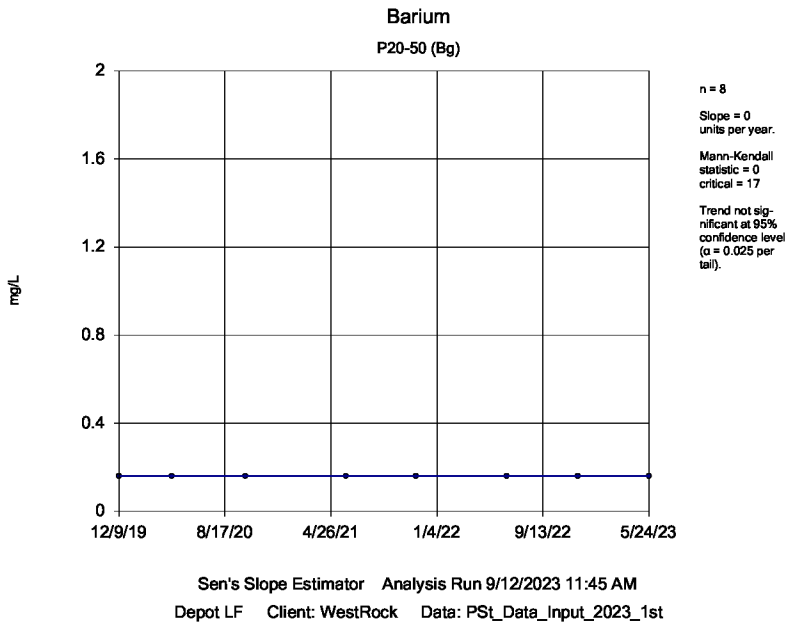

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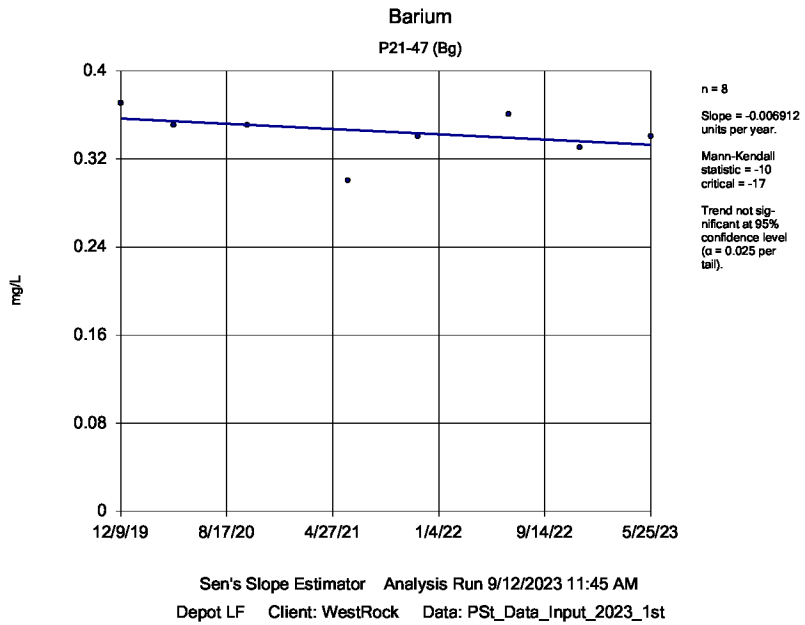

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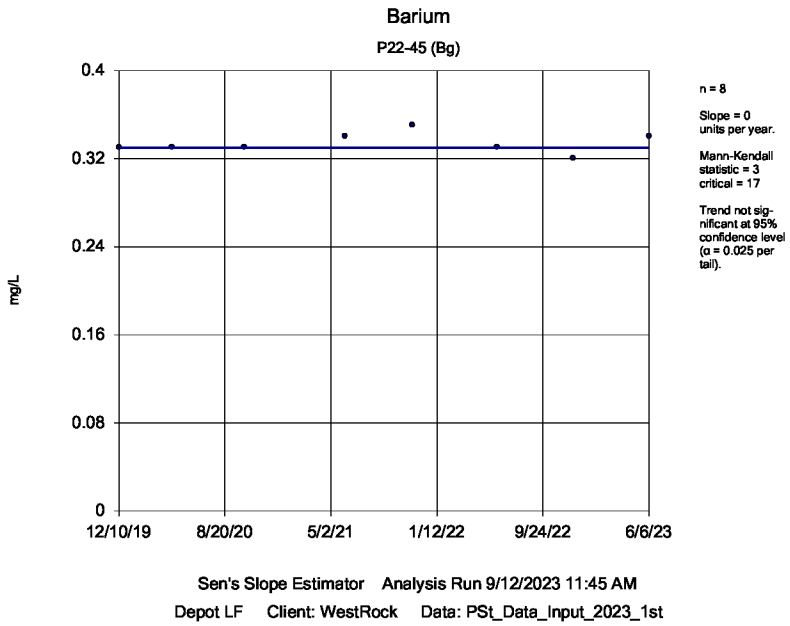

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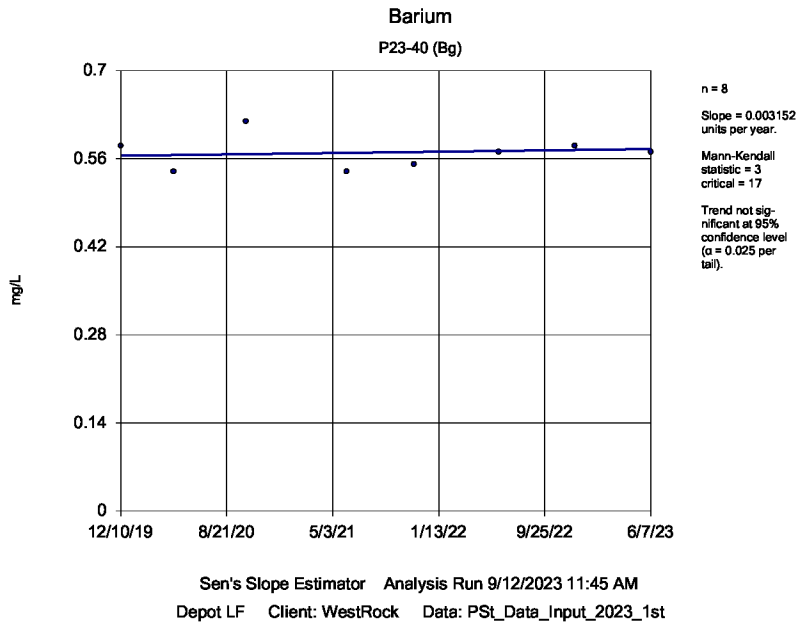

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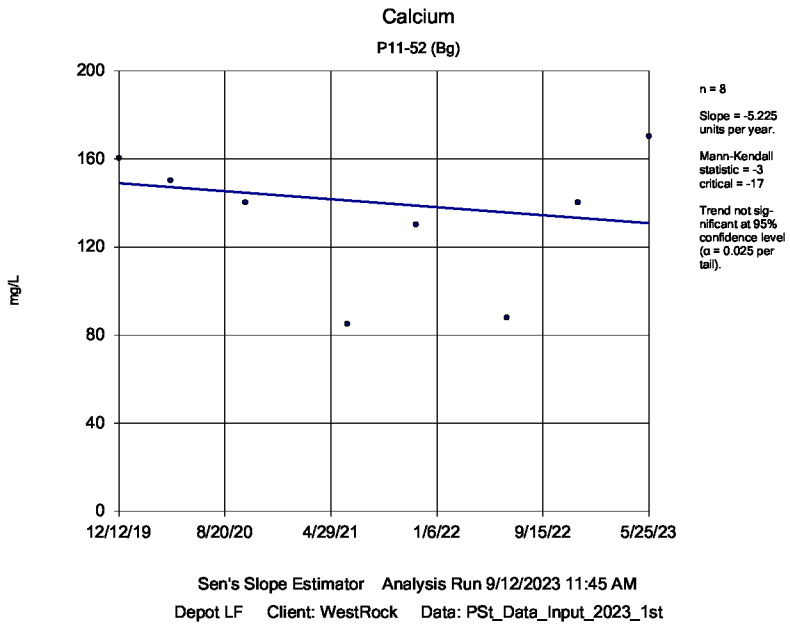

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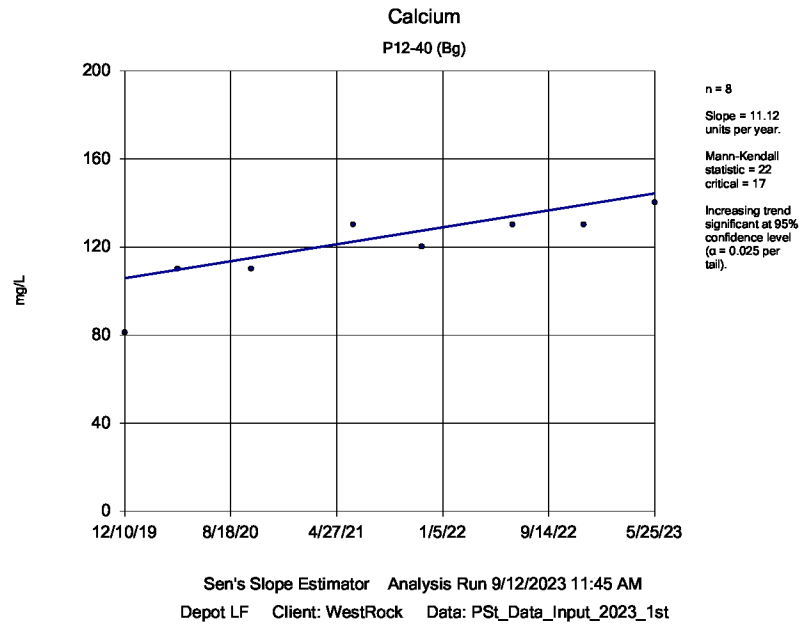

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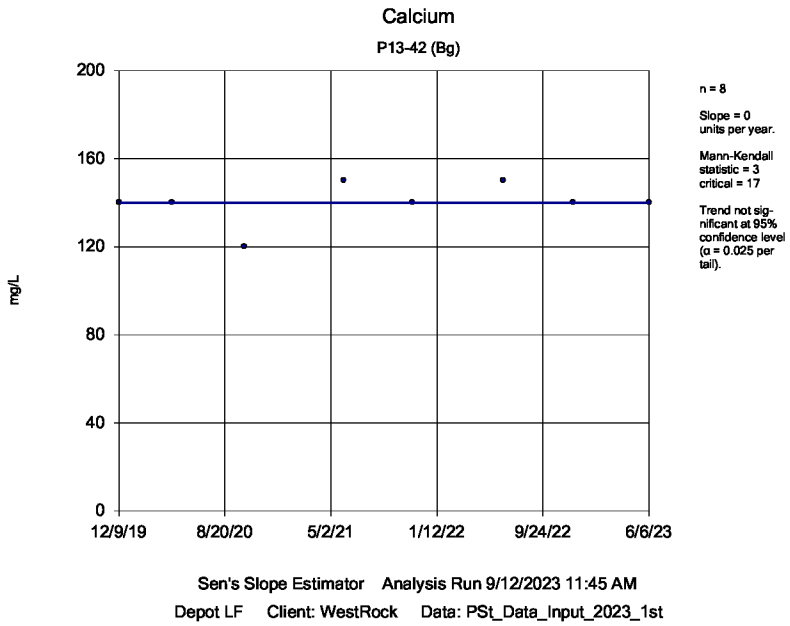

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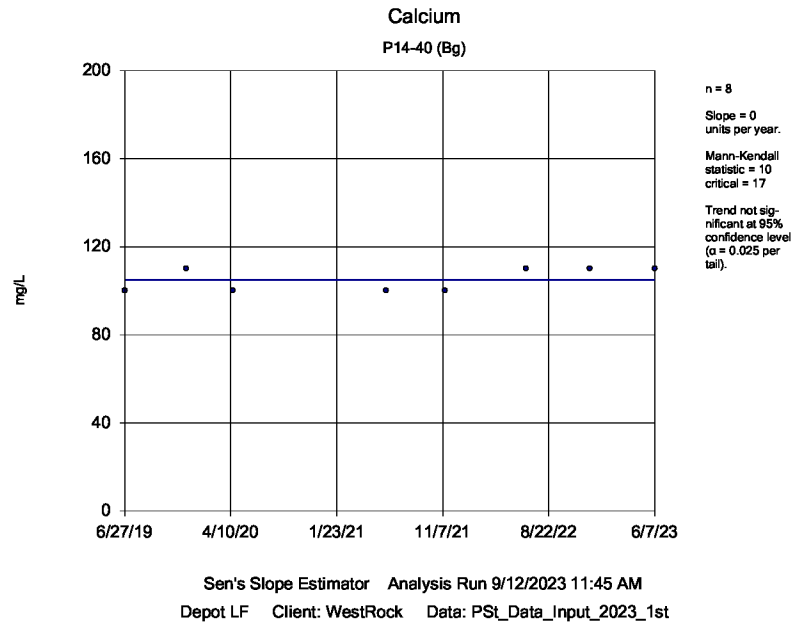

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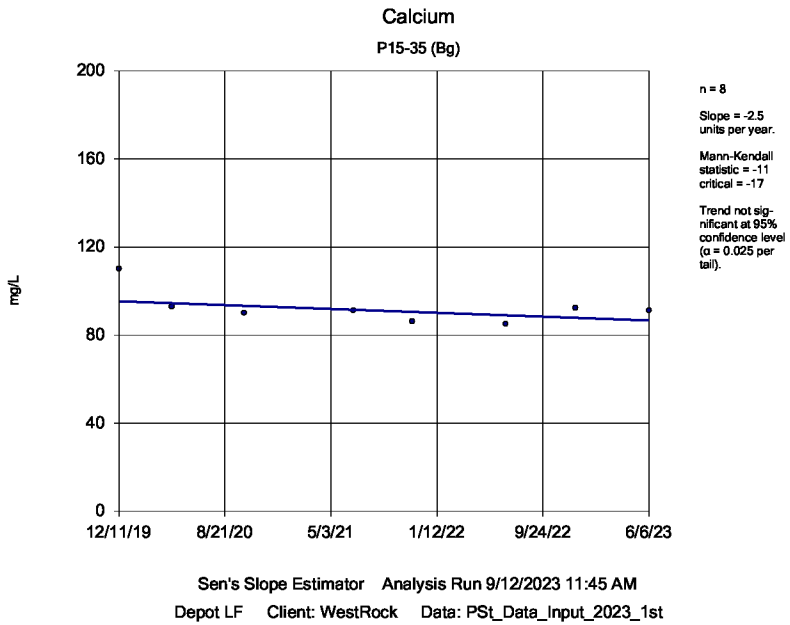

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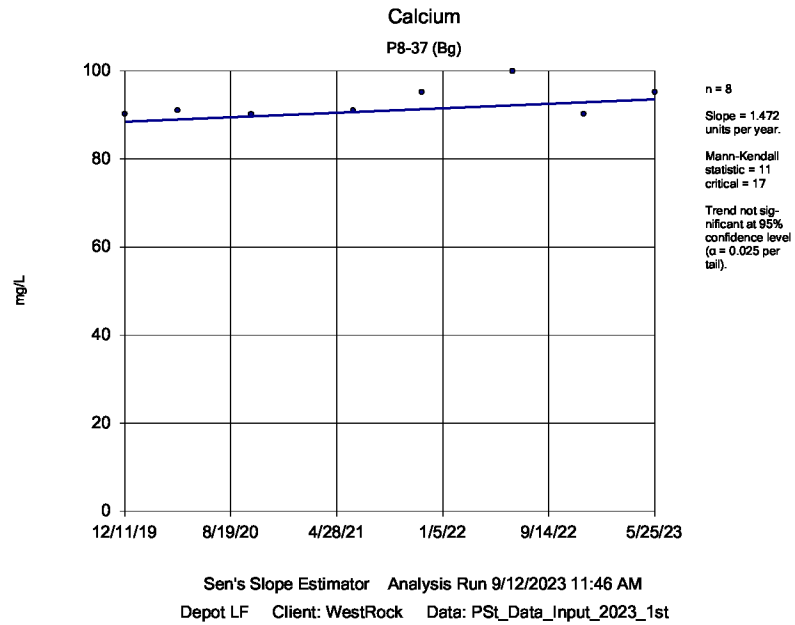

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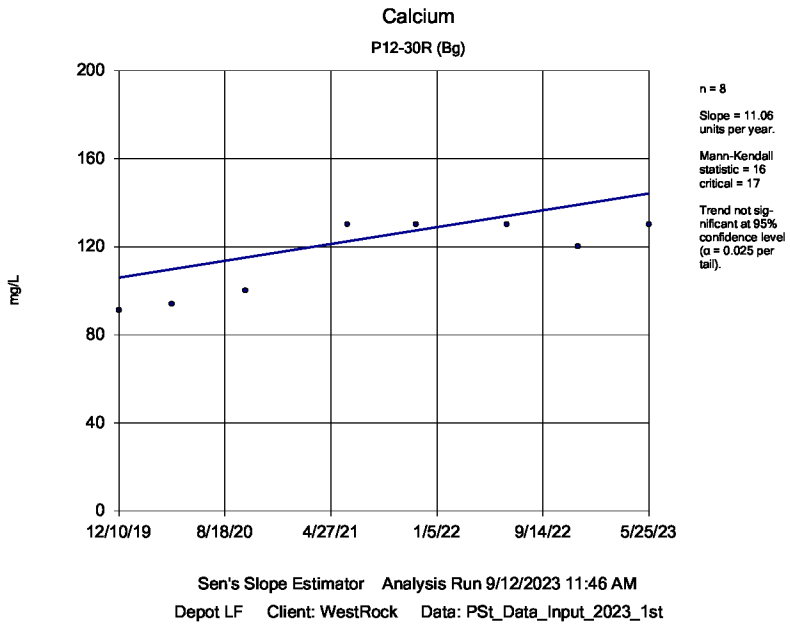

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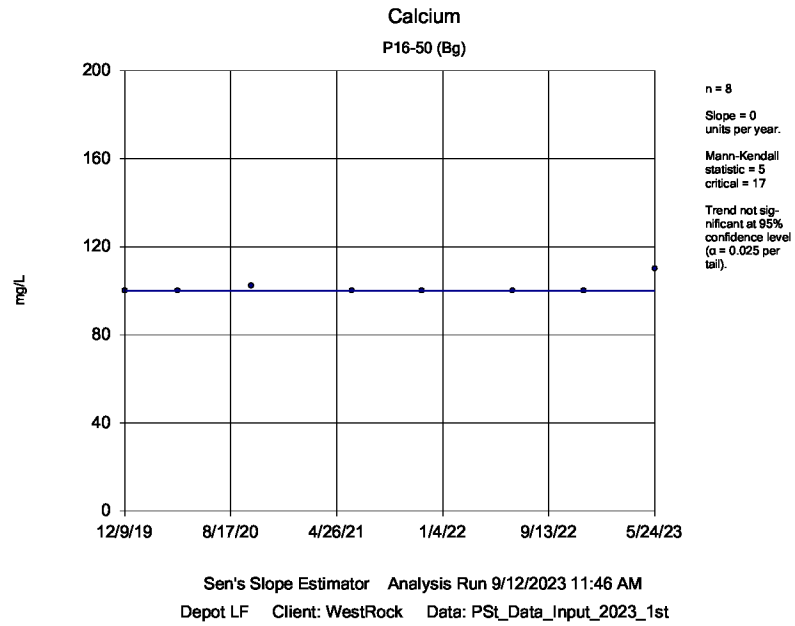

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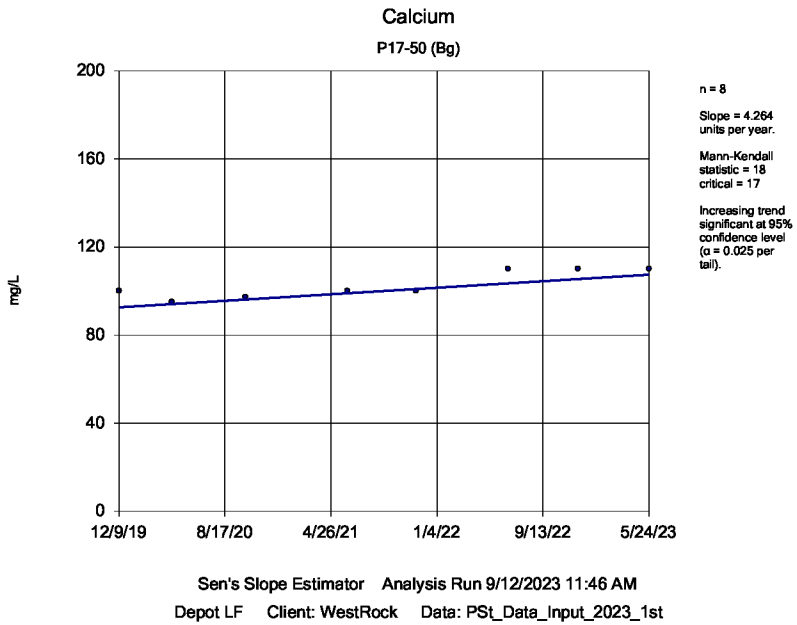

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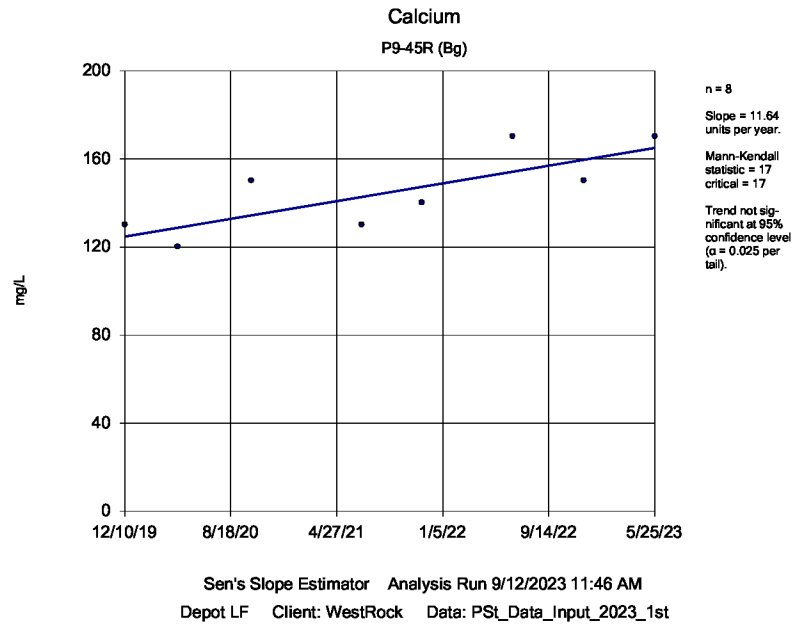

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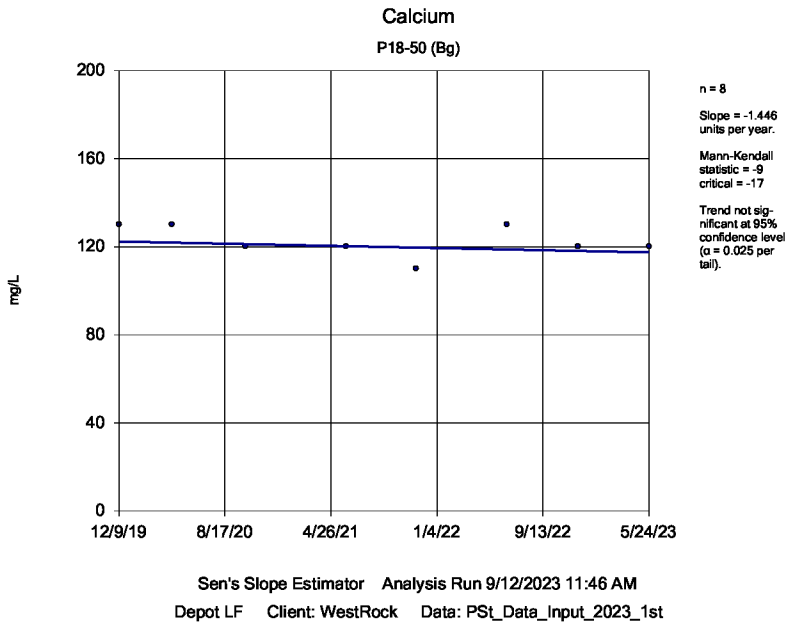

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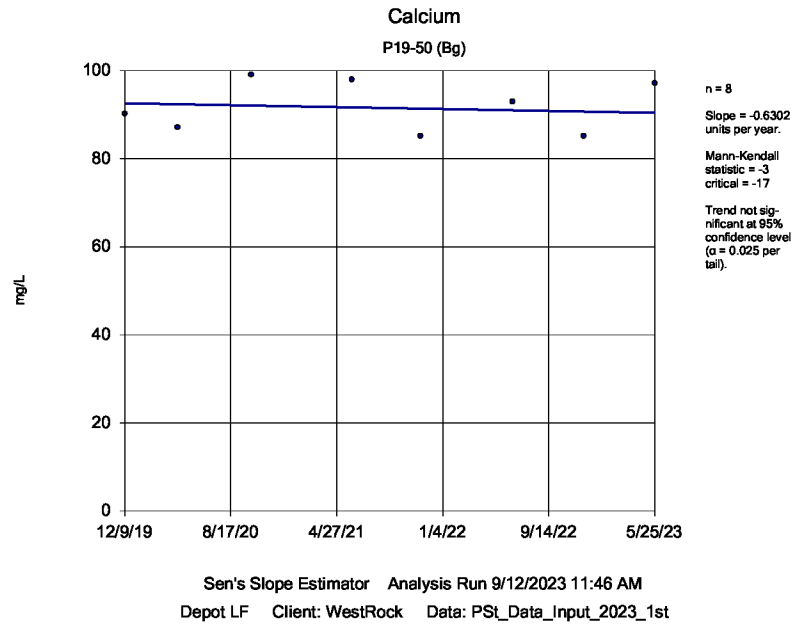

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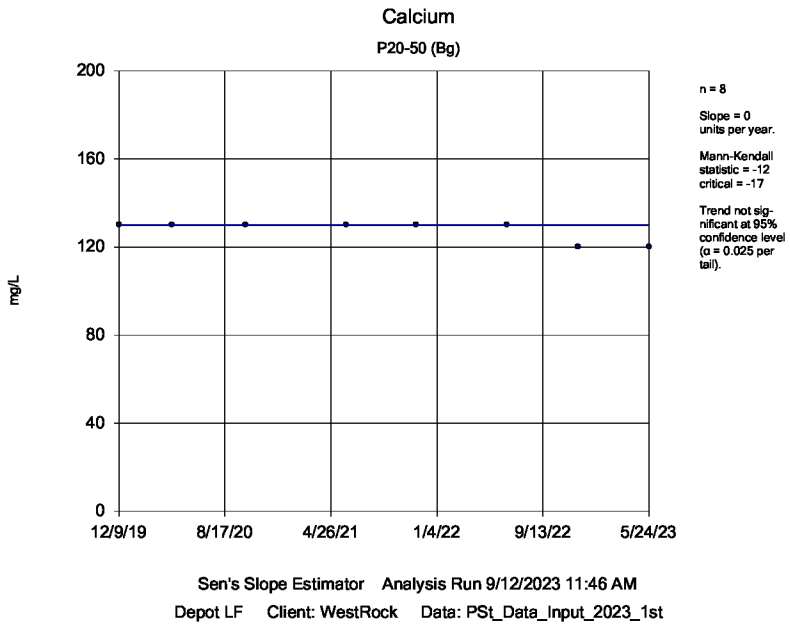

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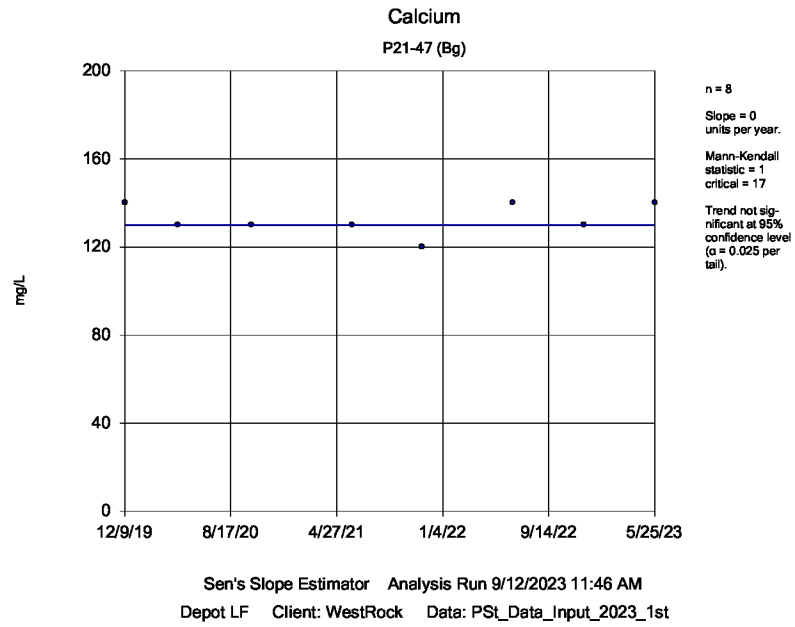

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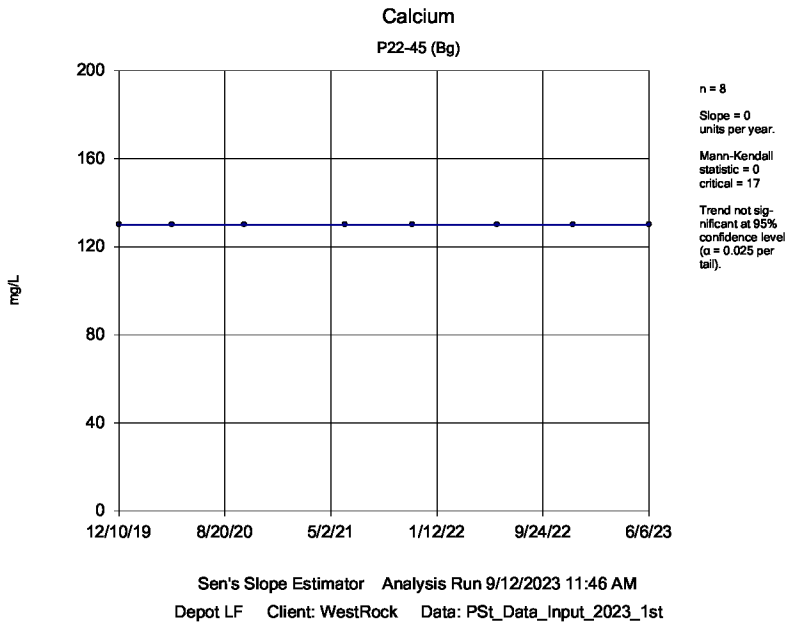

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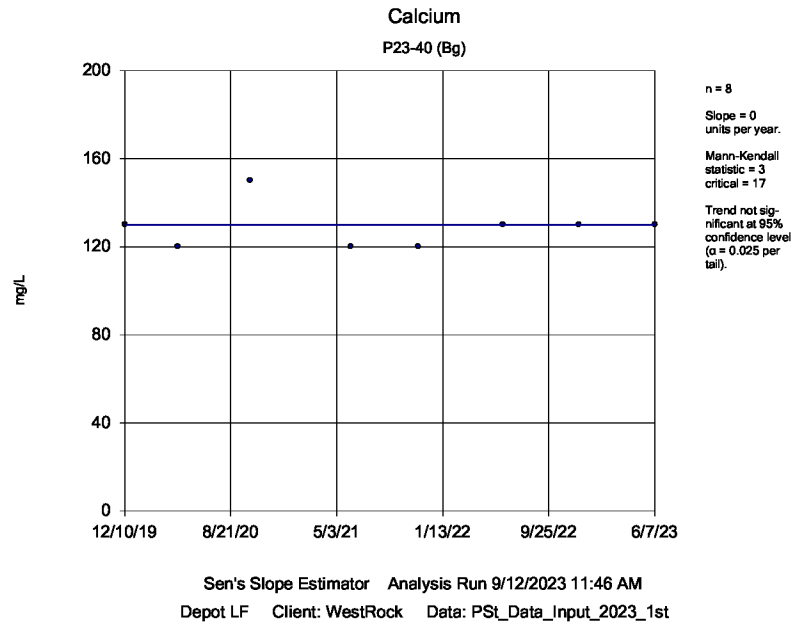

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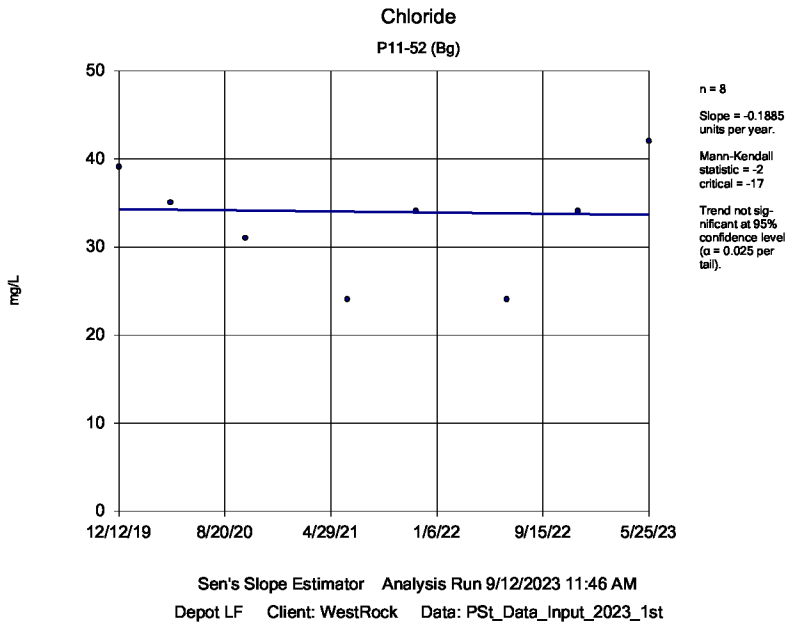

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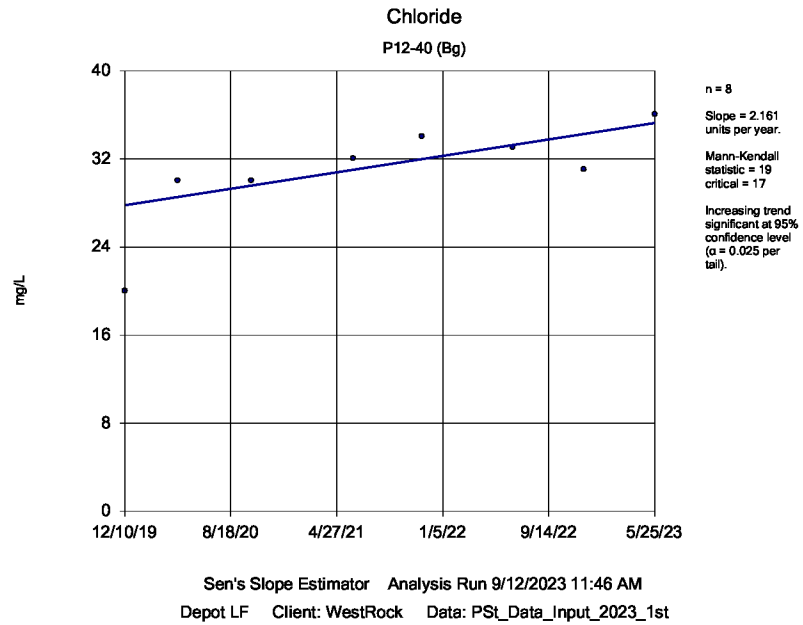

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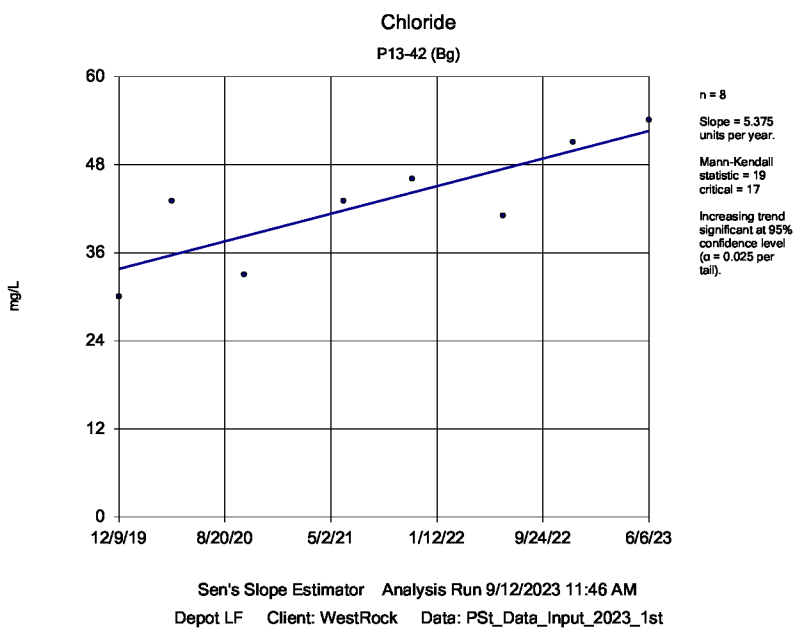

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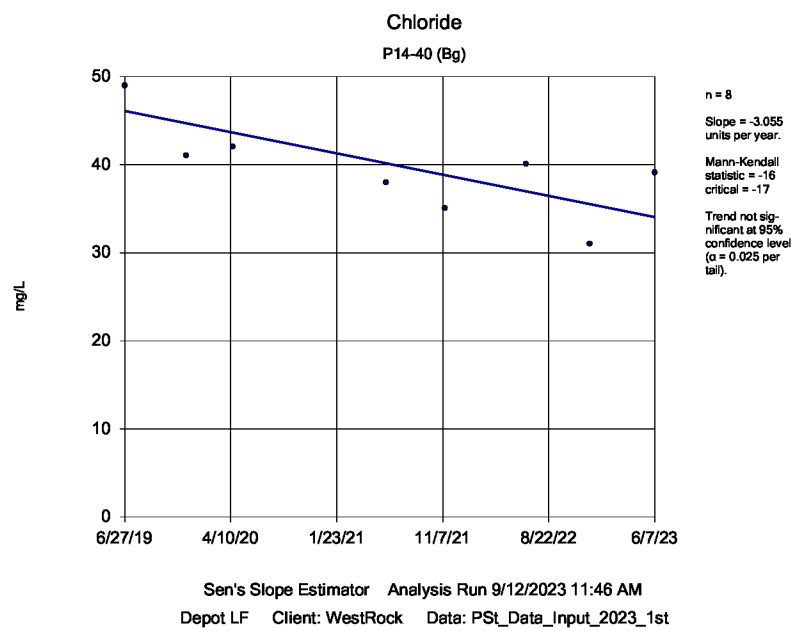

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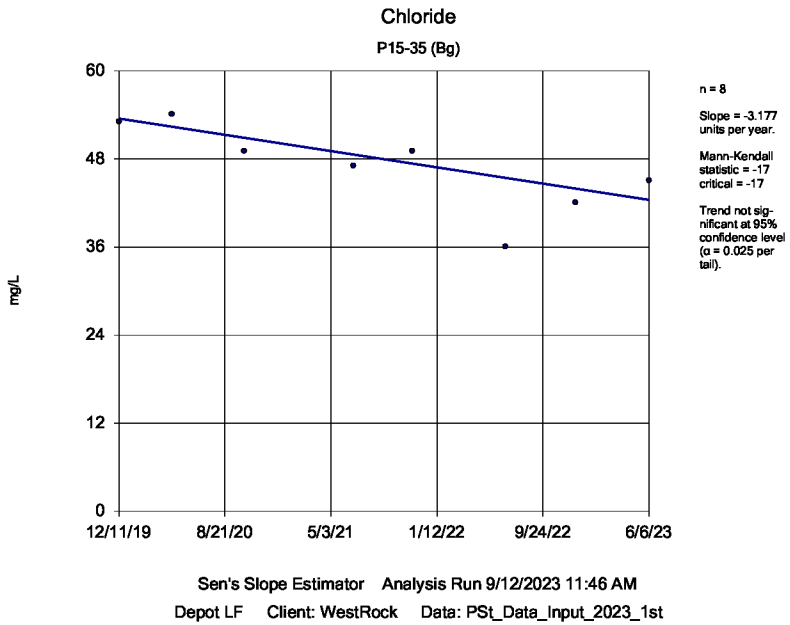

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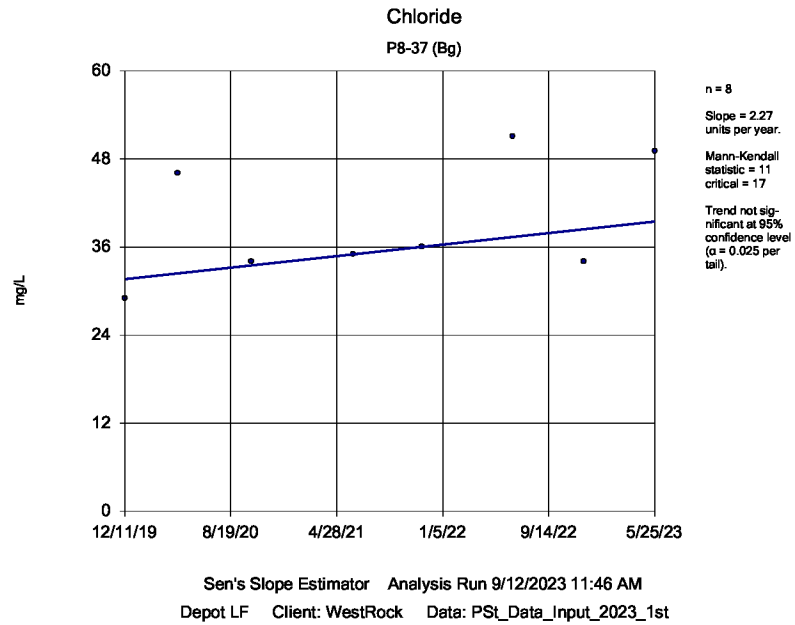

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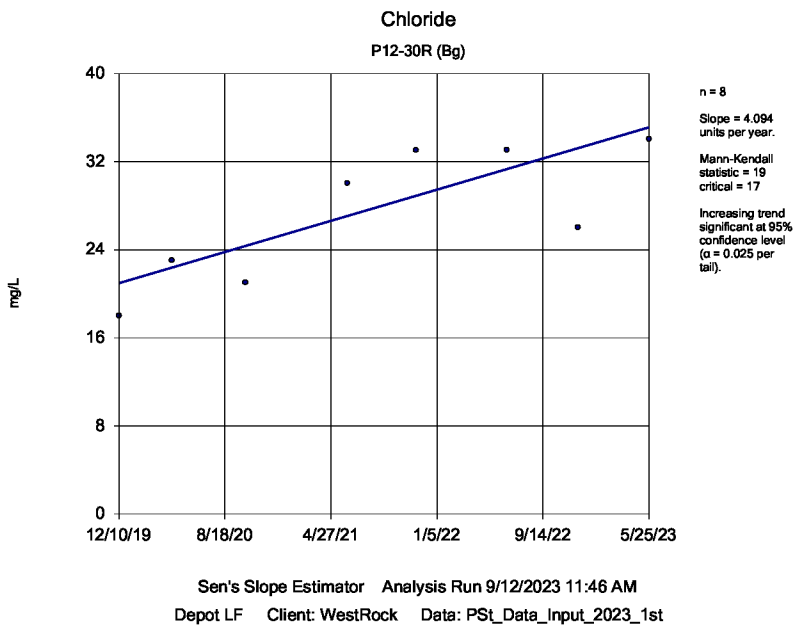

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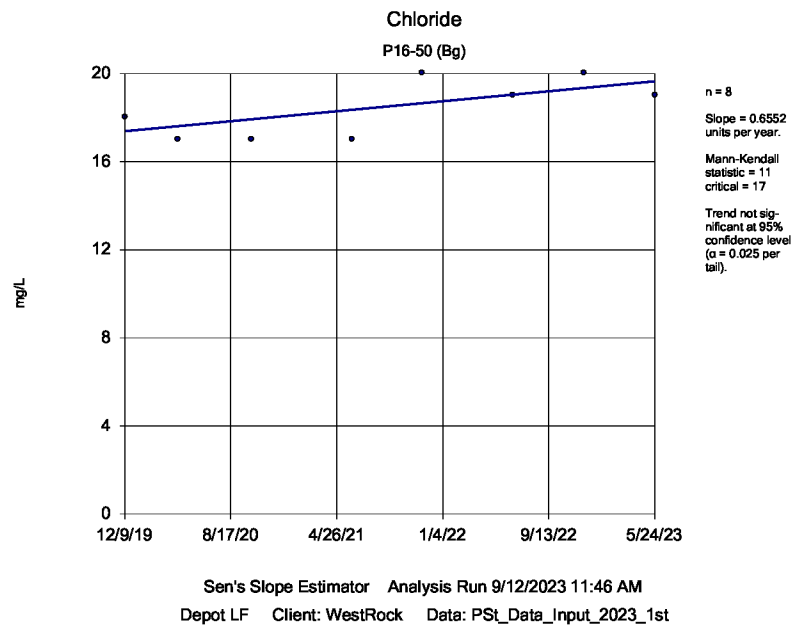

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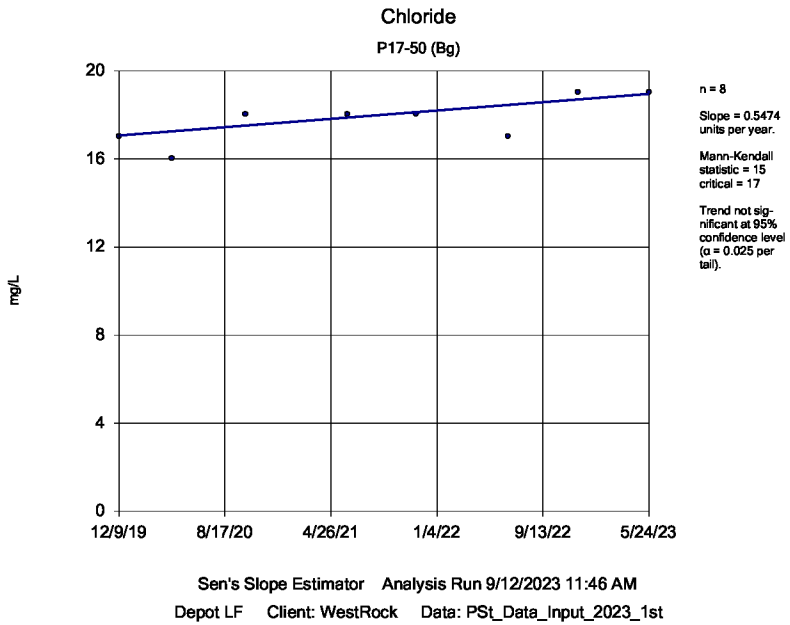

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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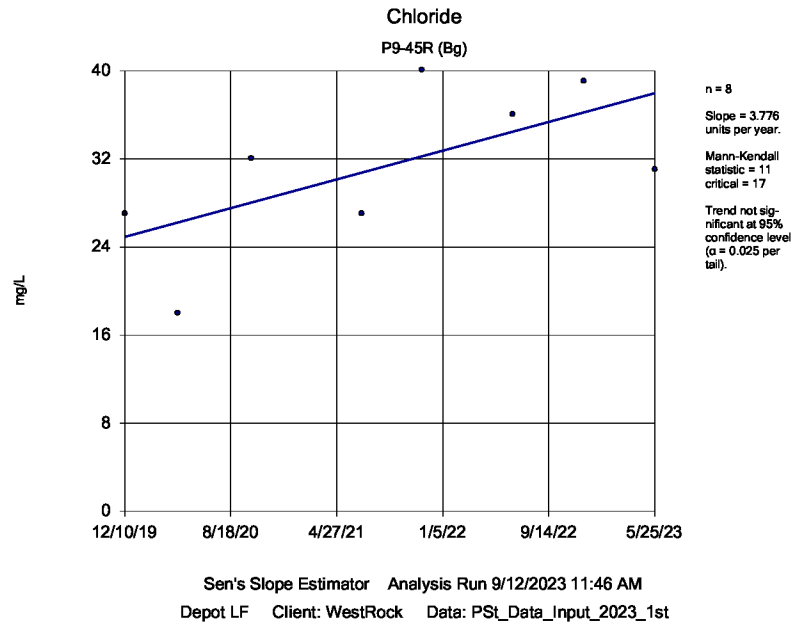

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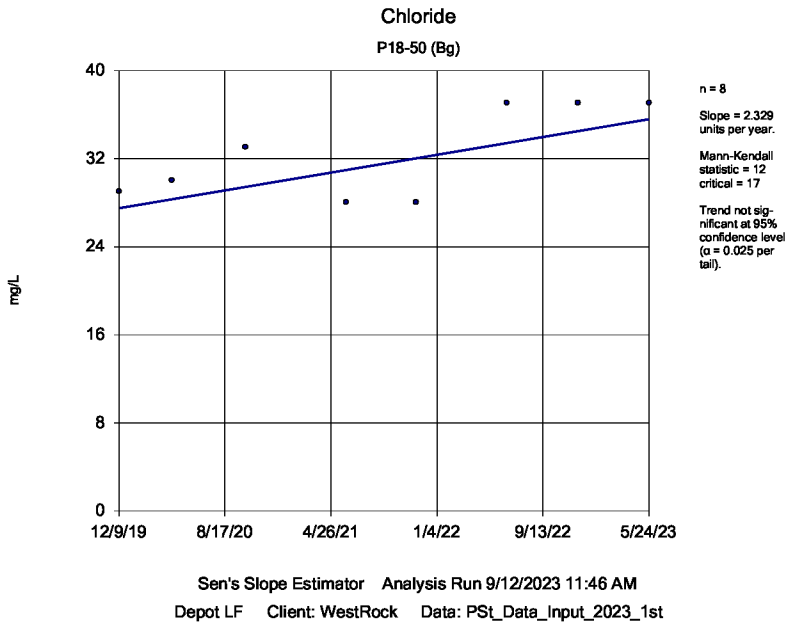

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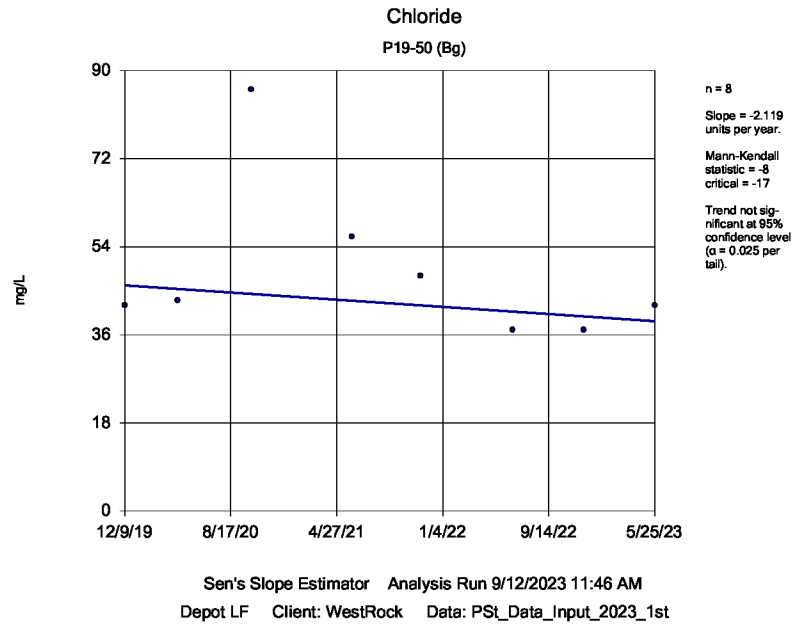

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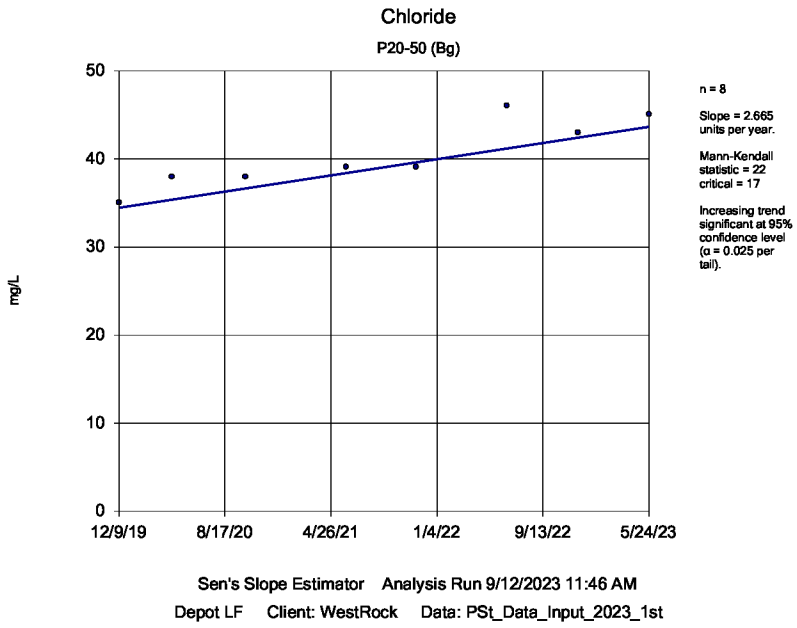

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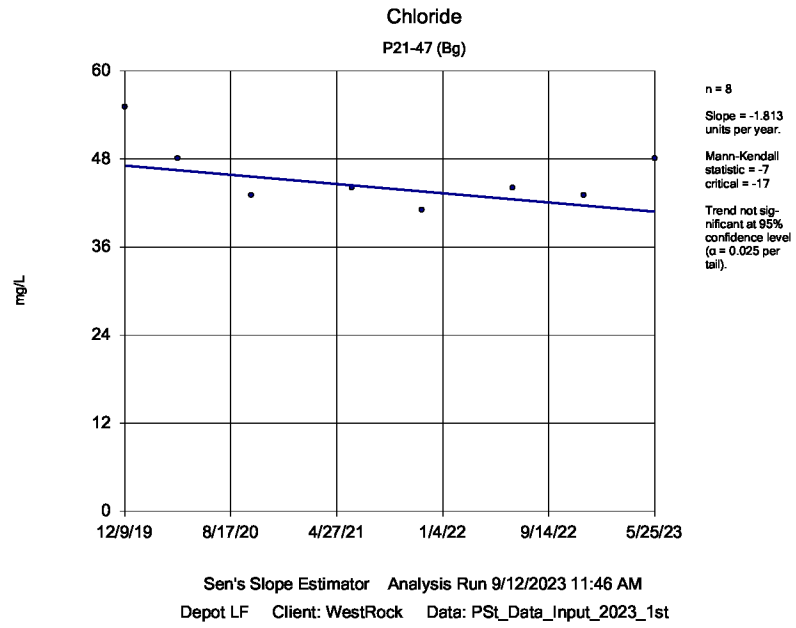

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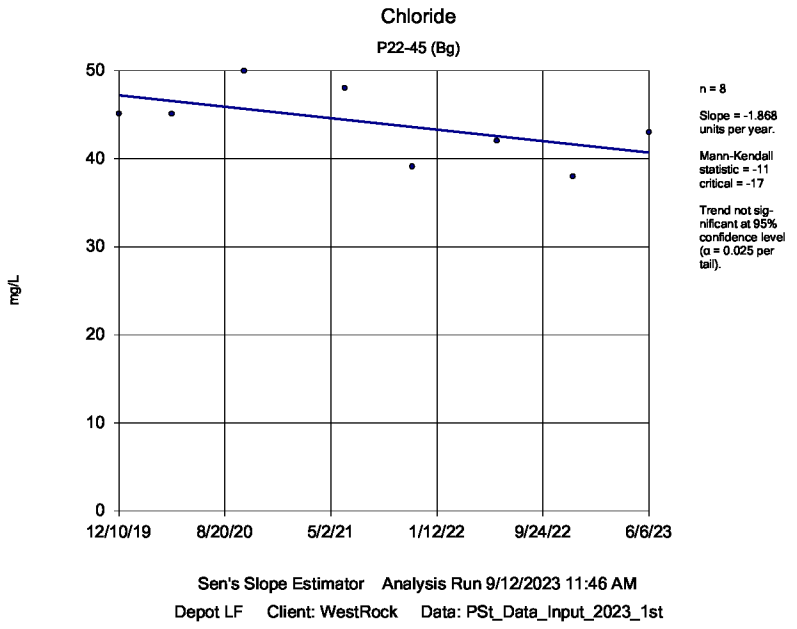

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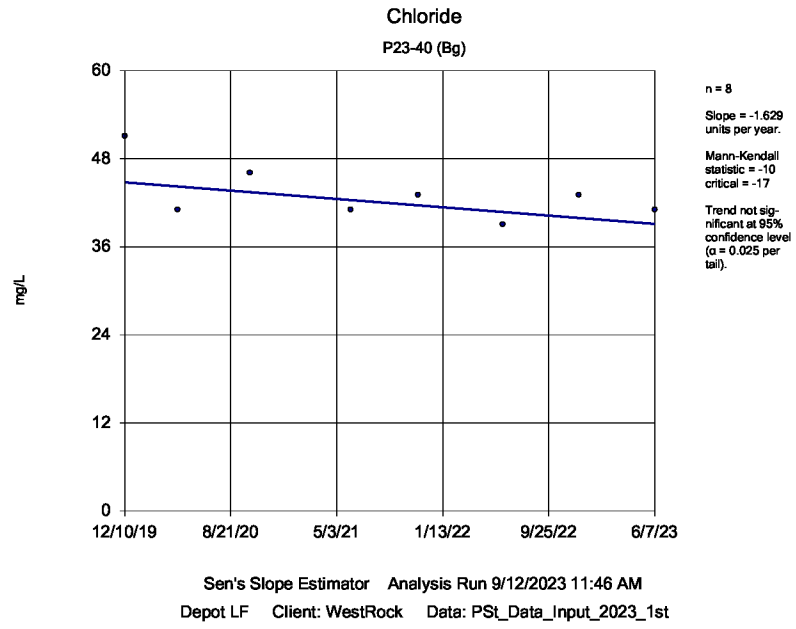

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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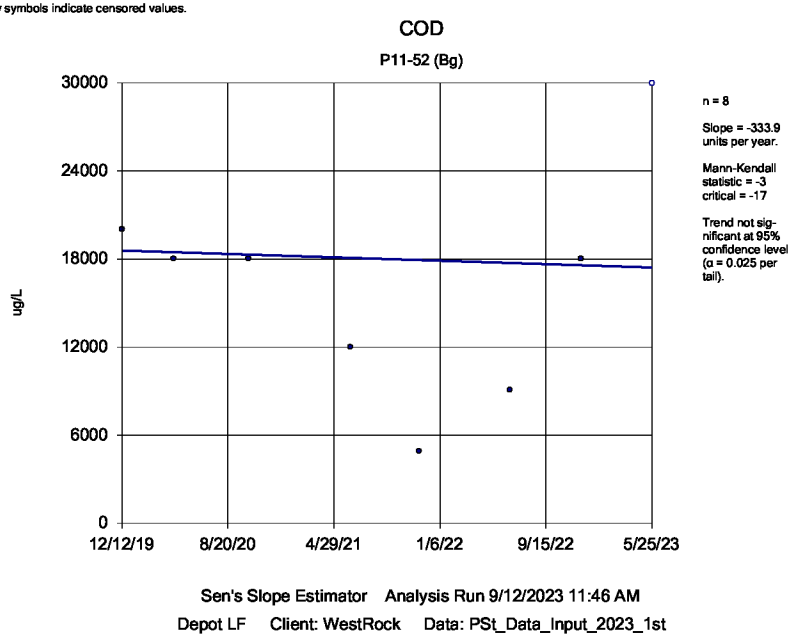

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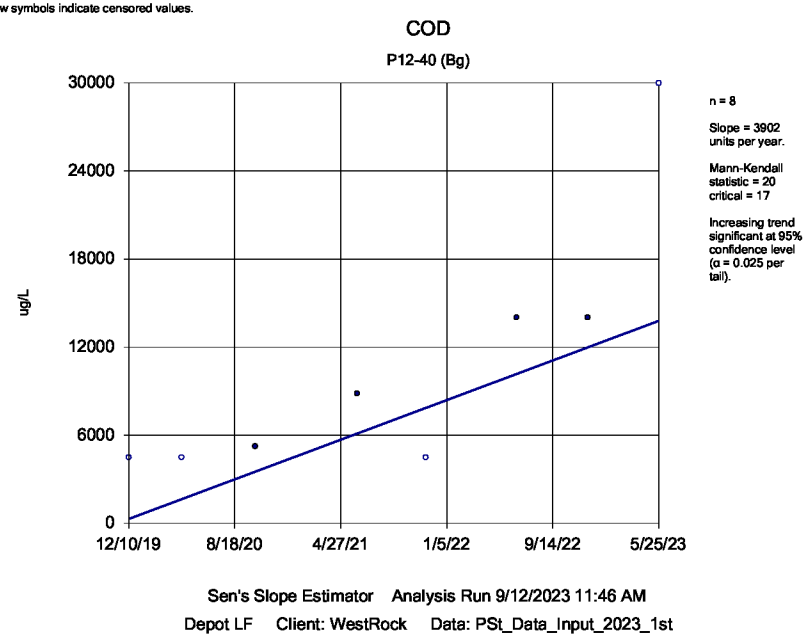

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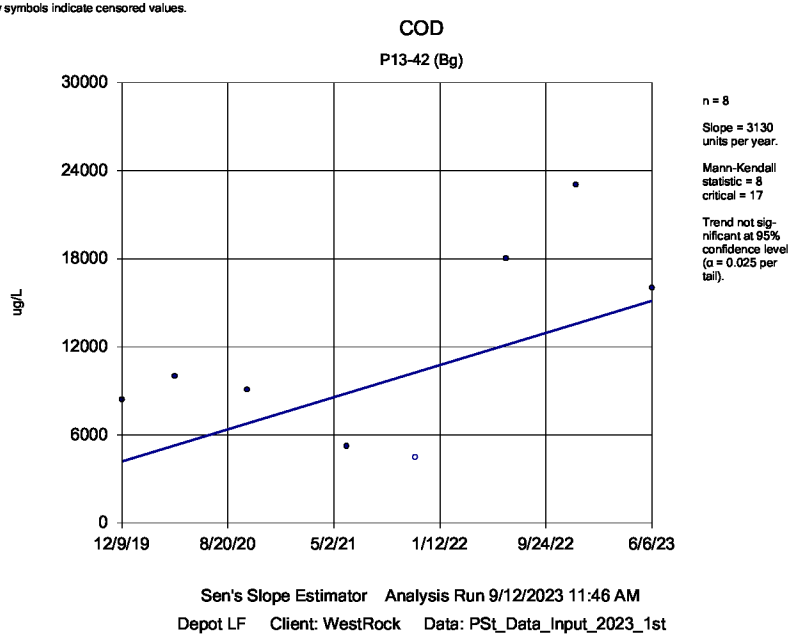

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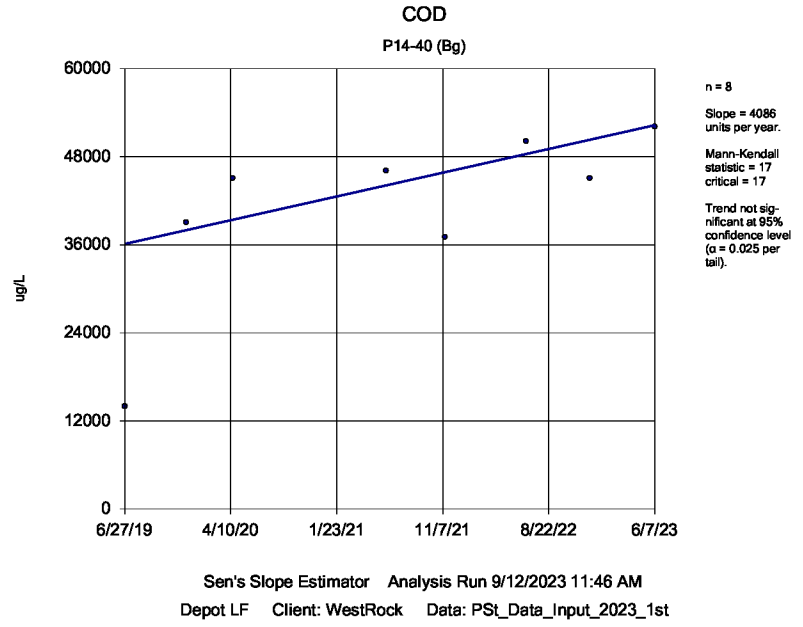

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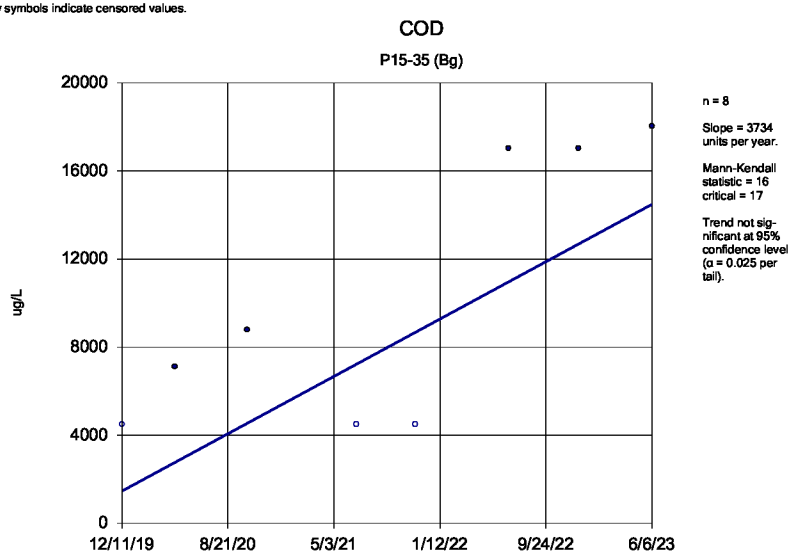

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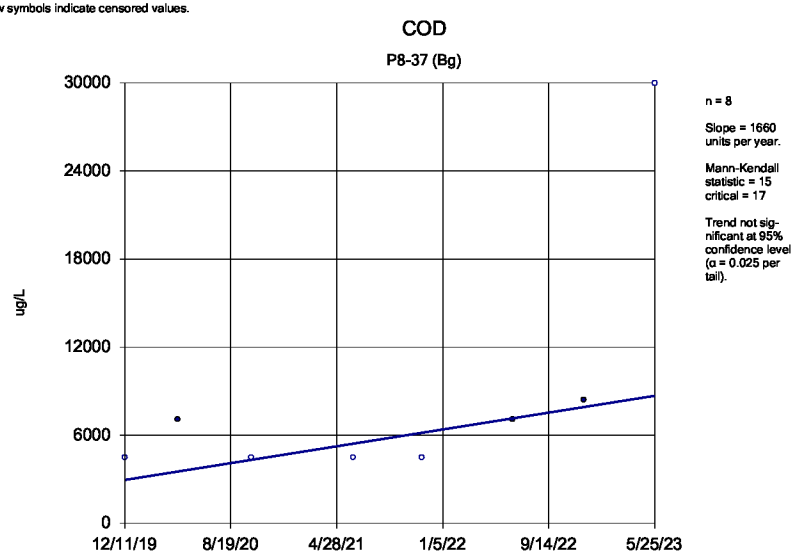
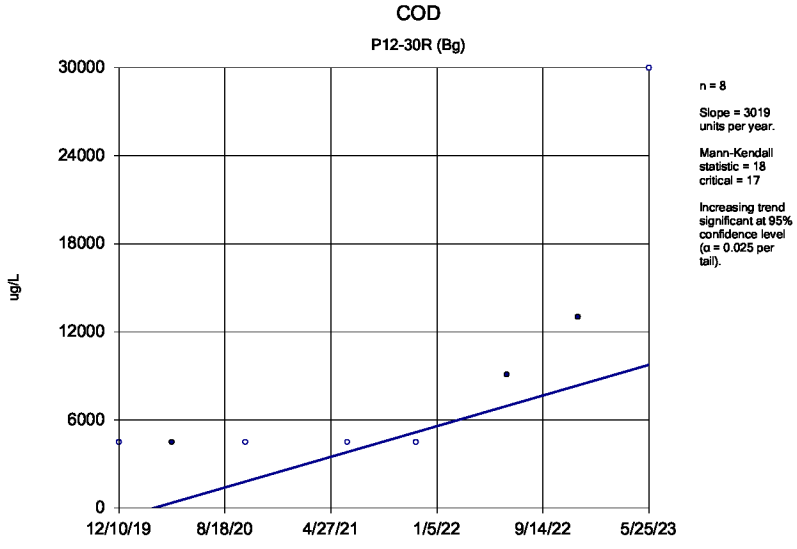
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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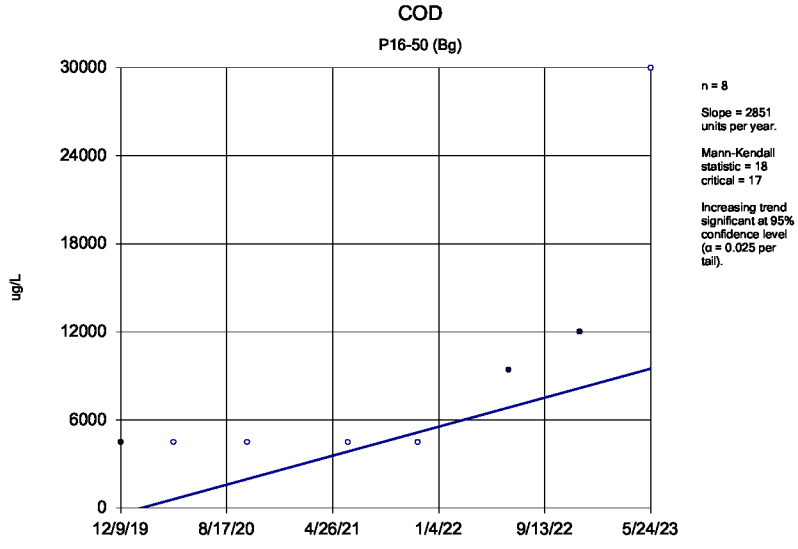
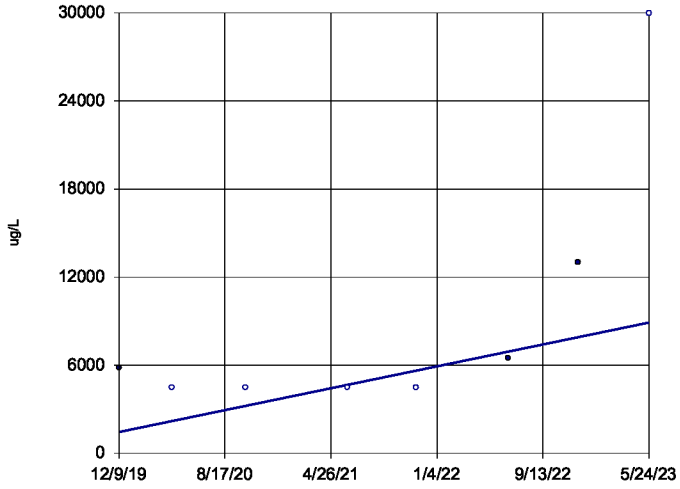


Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.

COD

P17-50 (Bg)



n = 8

Slope = 2159 units per year.

Mann-Kendall statistic = 14 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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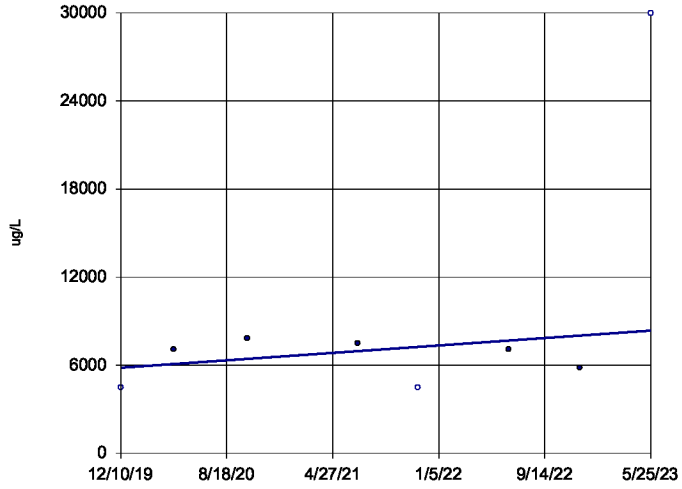
Hollow symbols indicate censored values.

COD

P9-45R (Bg)



n = 8

Slope = 729.3 units per year.

Mann-Kendall statistic = 6 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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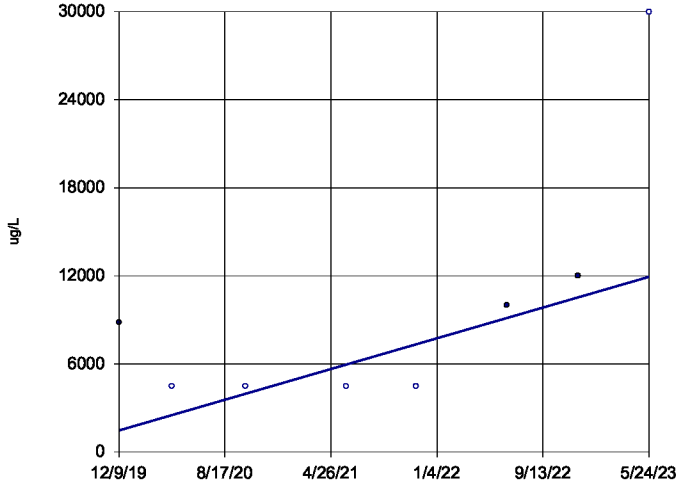
Hollow symbols indicate censored values.

COD

P18-50 (Bg)



n = 8

Slope = 3027 units per year.

Mann-Kendall statistic = 14 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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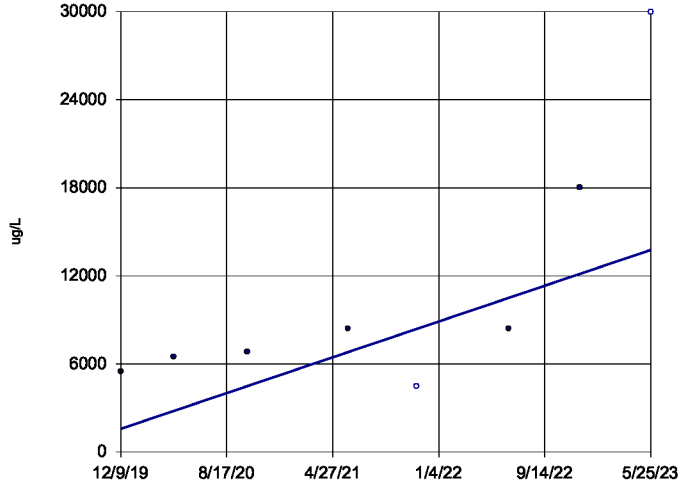
Hollow symbols indicate censored values.

COD

P19-50 (Bg)



n = 8

Slope = 3522 units per year.

Mann-Kendall statistic = 19 critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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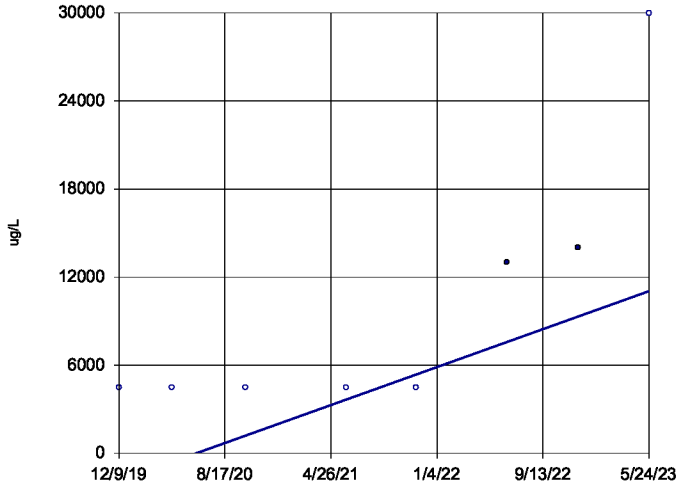
Hollow symbols indicate censored values.

COD

P20-50 (Bg)



n = 8

Slope = 3737 units per year.

Mann-Kendall statistic = 18 critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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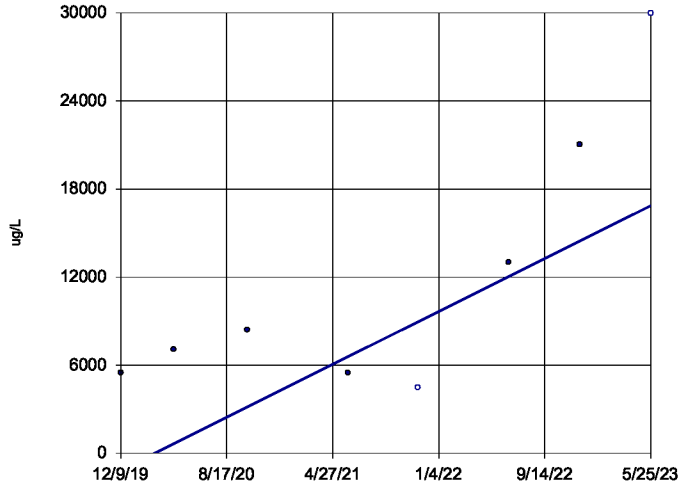
Hollow symbols indicate censored values.

COD

P21-47 (Bg)



n = 8

Slope = 5204 units per year.

Mann-Kendall statistic = 15 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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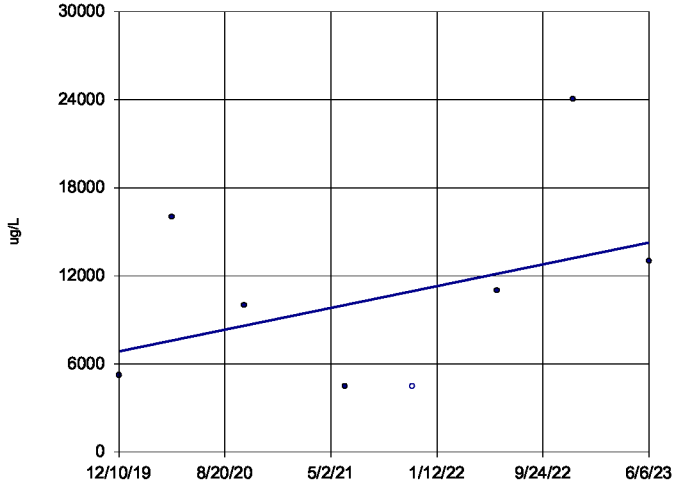
Hollow symbols indicate censored values.

COD

P22-45 (Bg)



n = 8

Slope = 2120 units per year.

Mann-Kendall statistic = 7 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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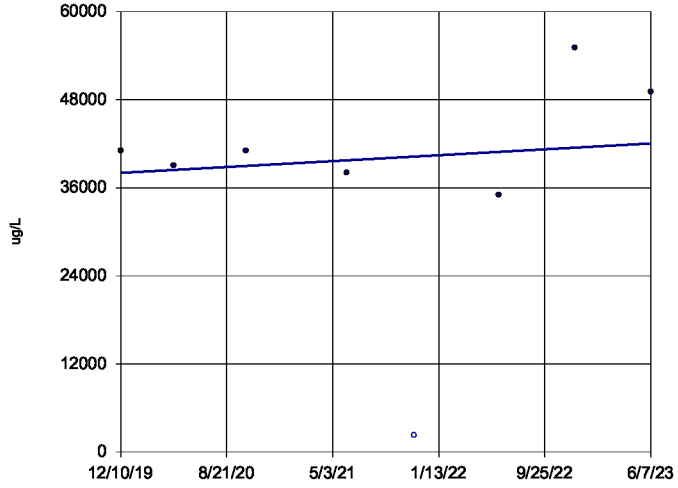
Hollow symbols indicate censored values.

COD

P23-40 (Bg)



n = 8

Slope = 1145 units per year.

Mann-Kendall statistic = 1 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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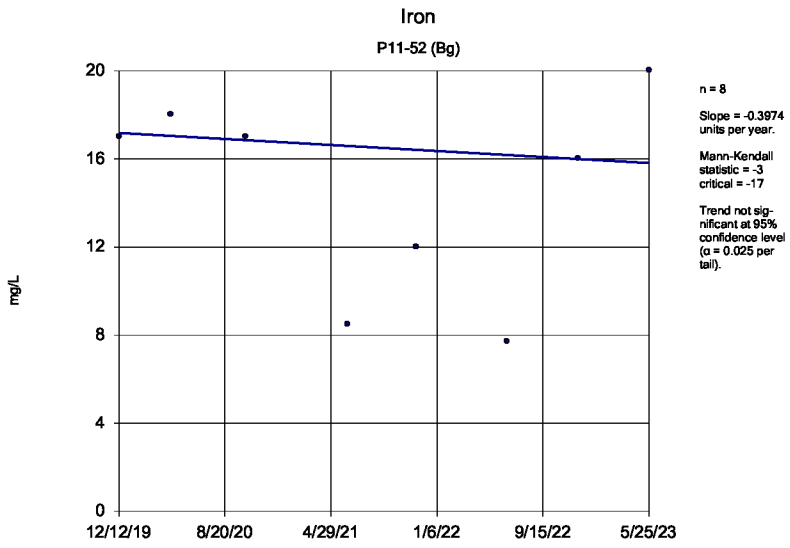

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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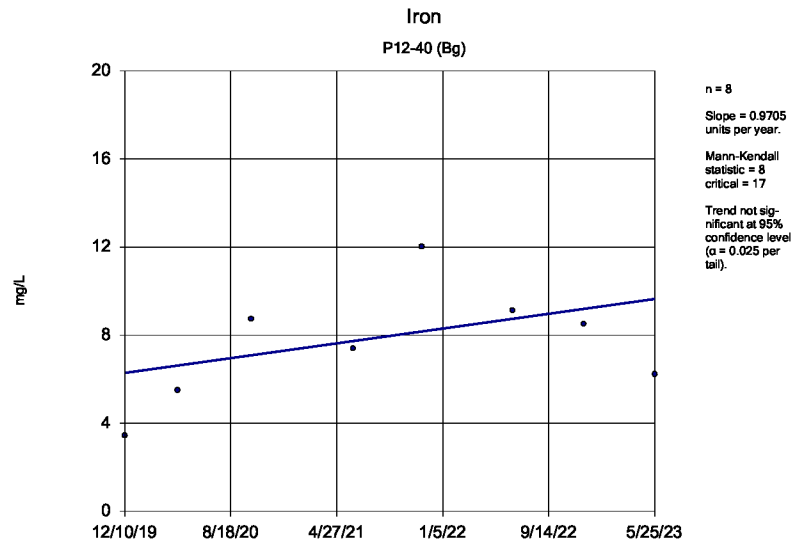
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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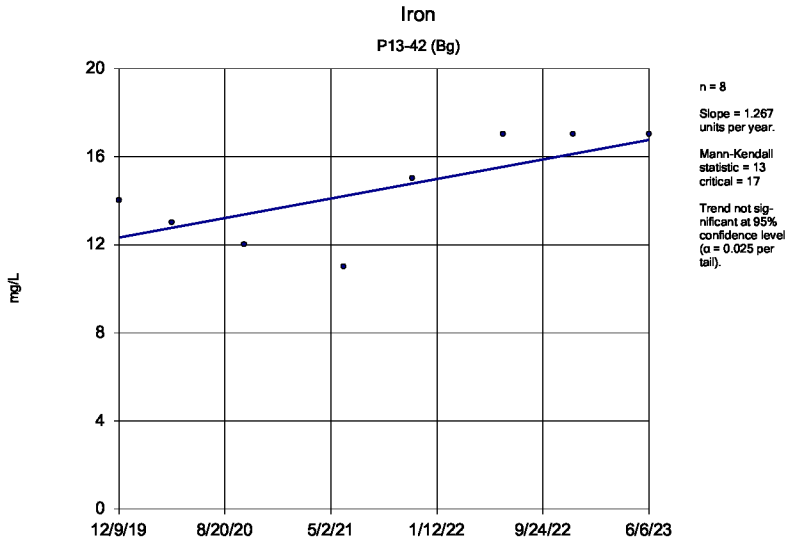
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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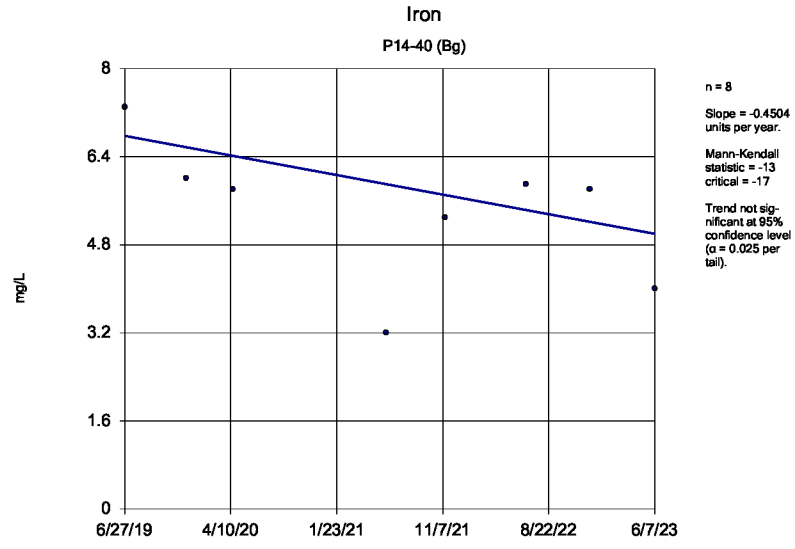

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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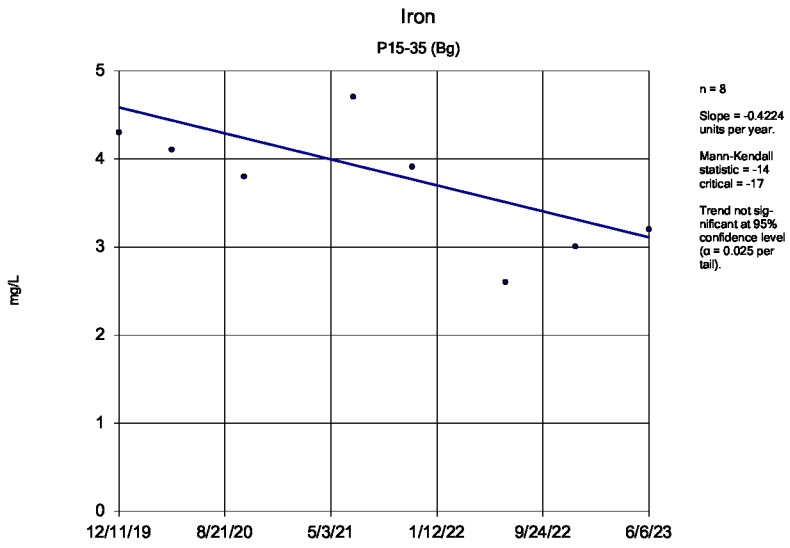

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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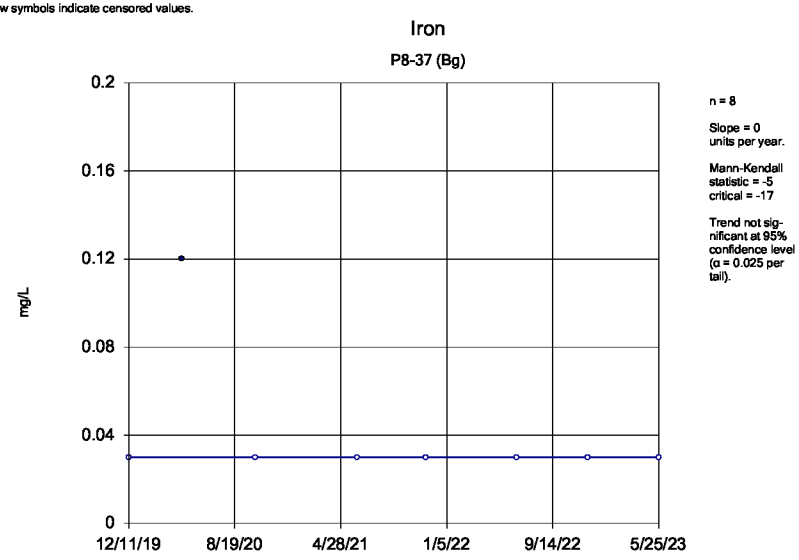

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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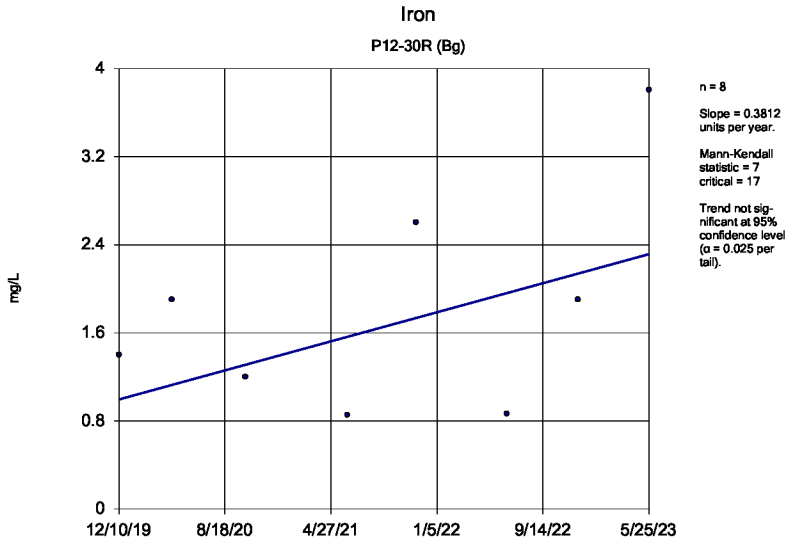

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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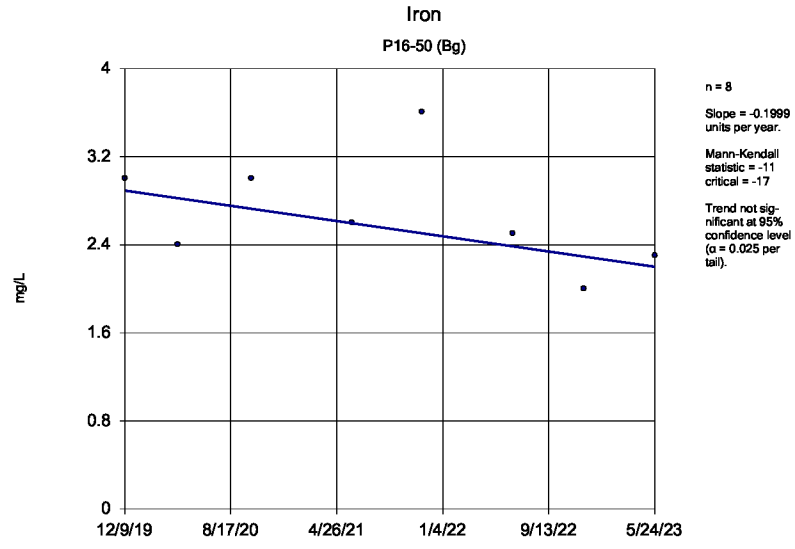

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

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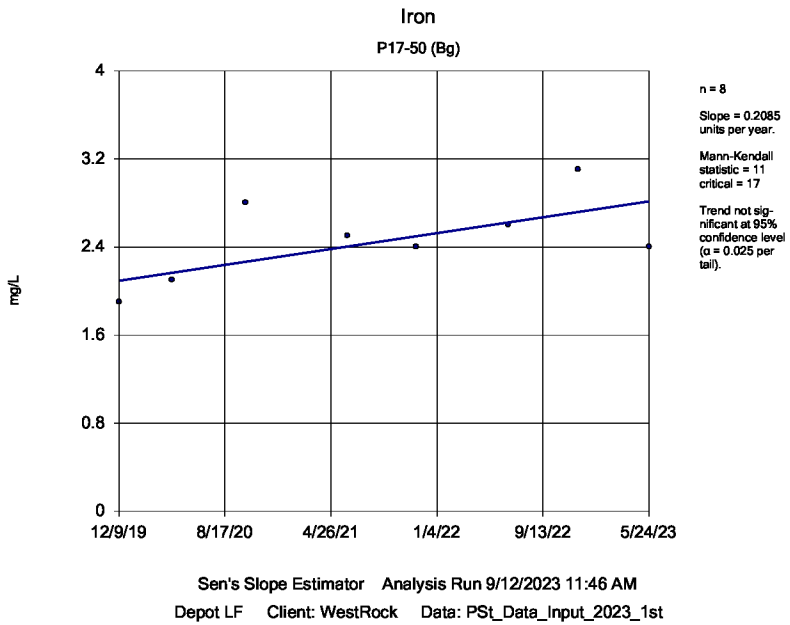

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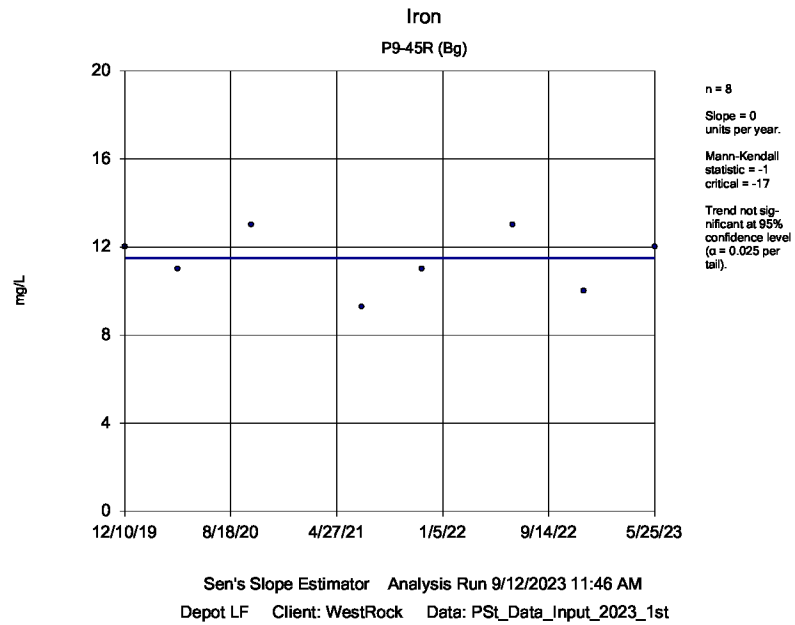

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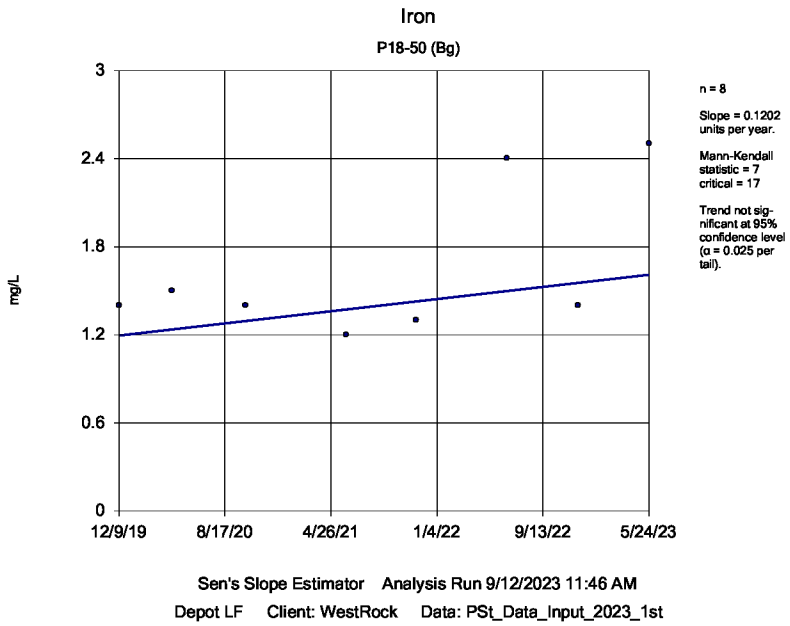

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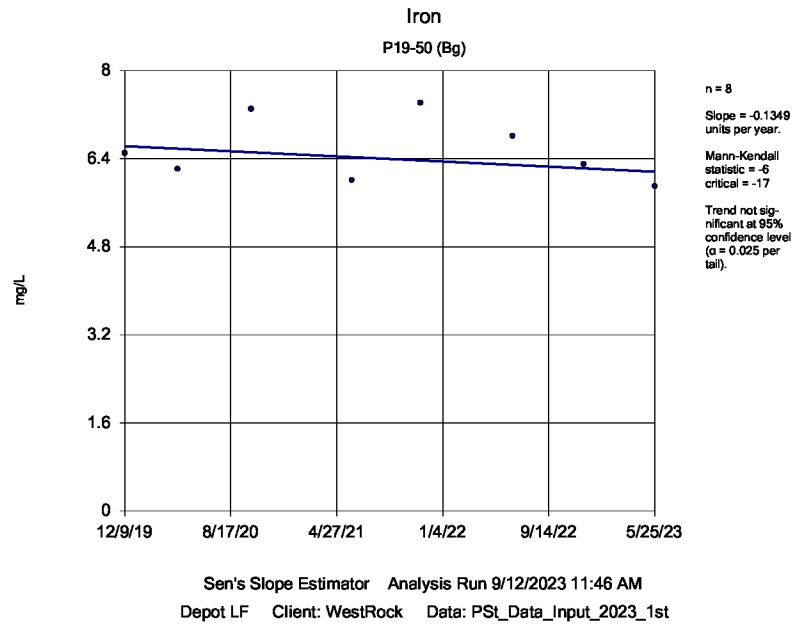

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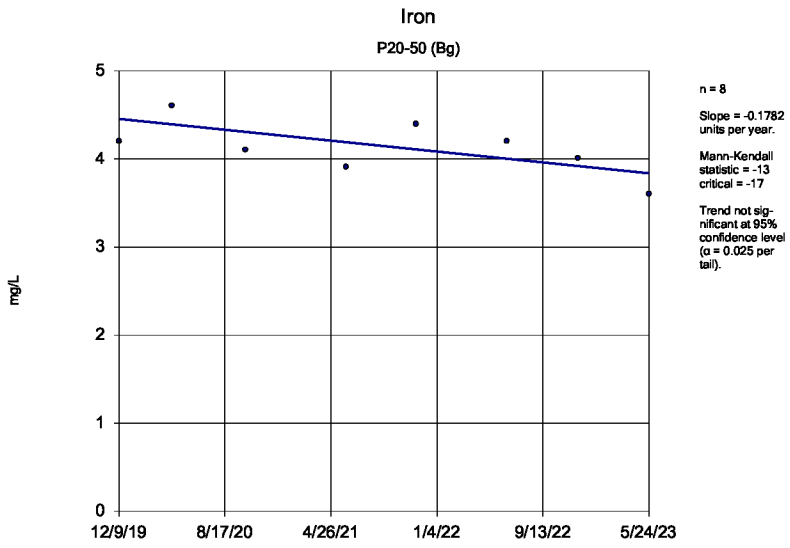

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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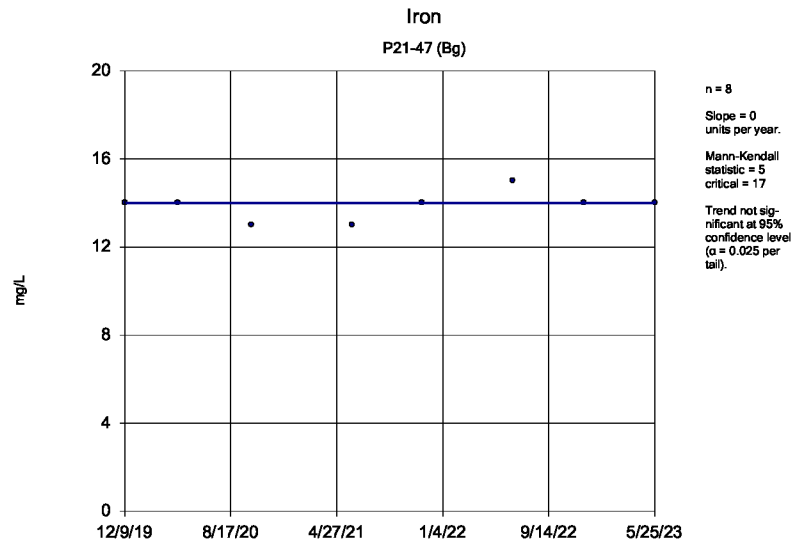

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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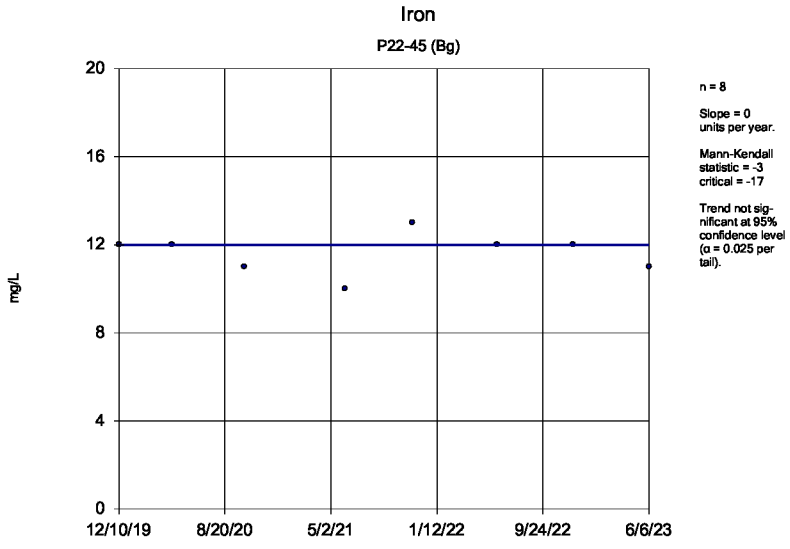

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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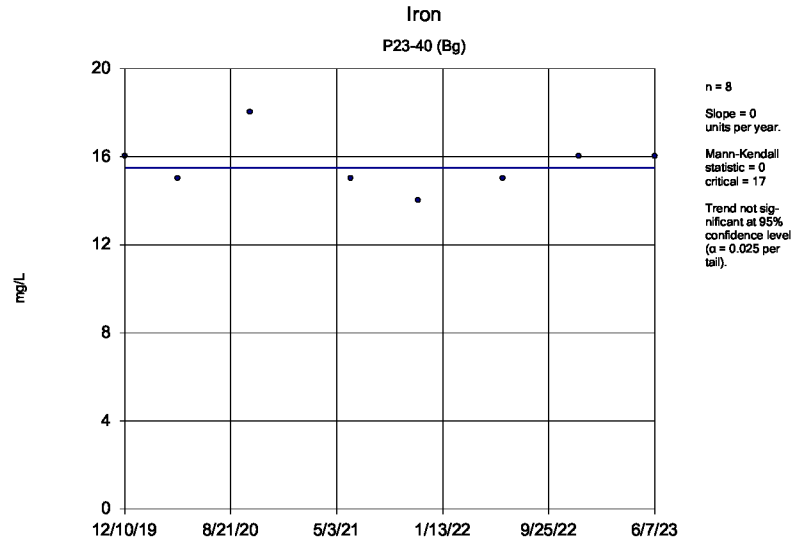

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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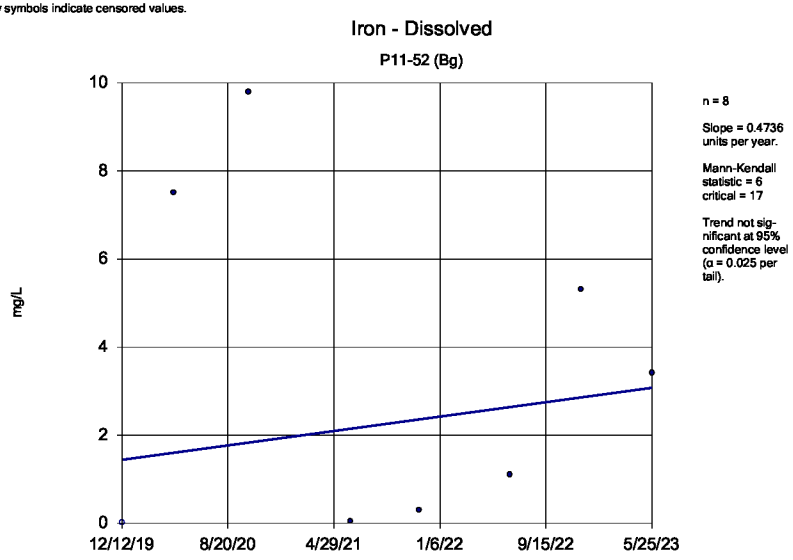

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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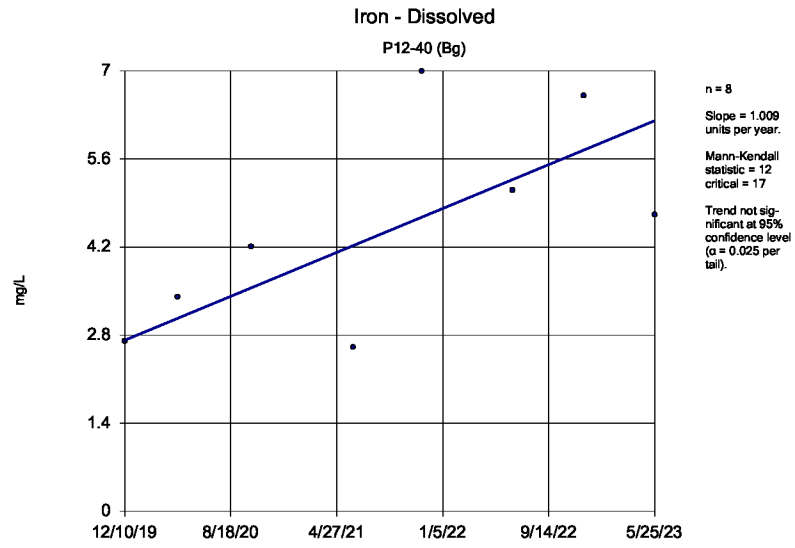

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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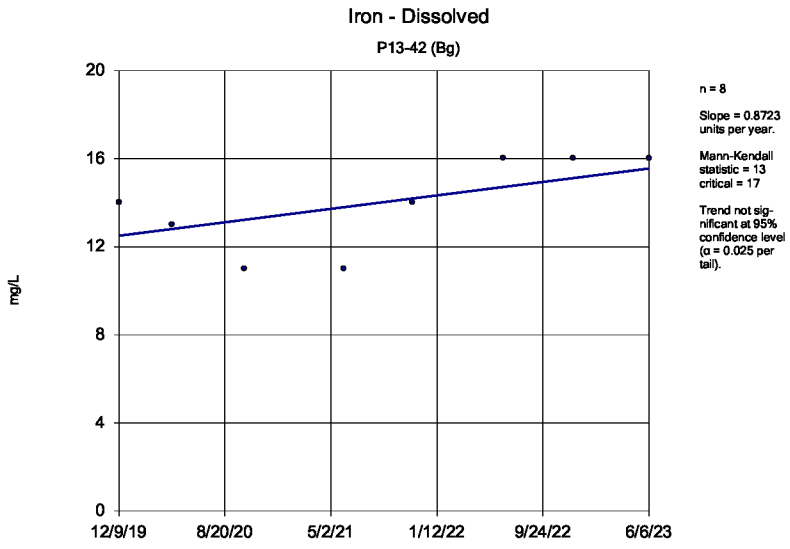

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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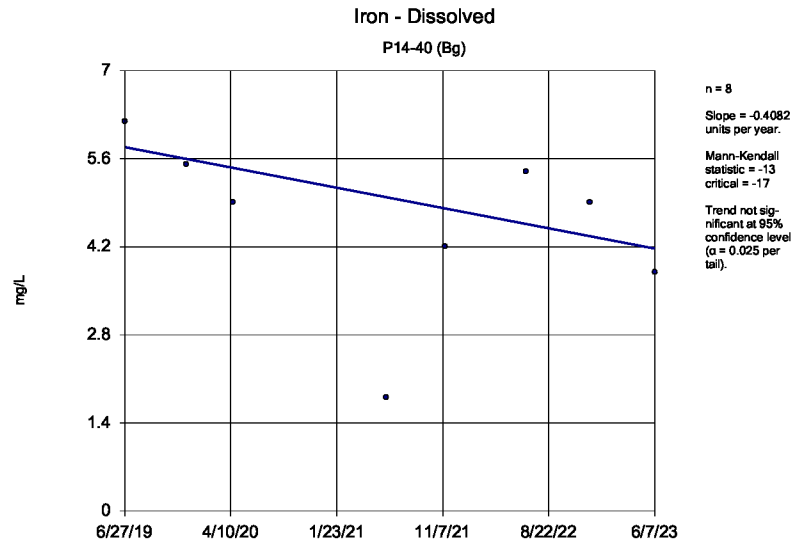

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM
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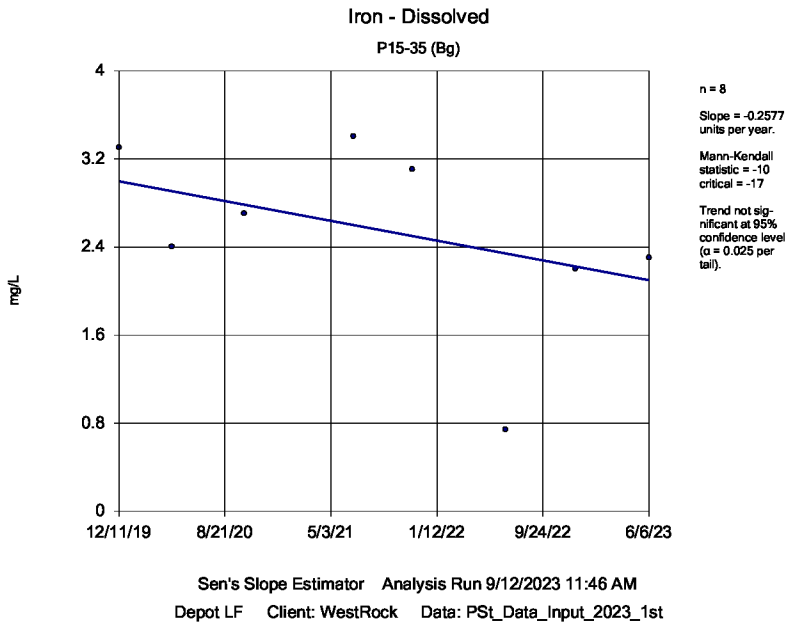

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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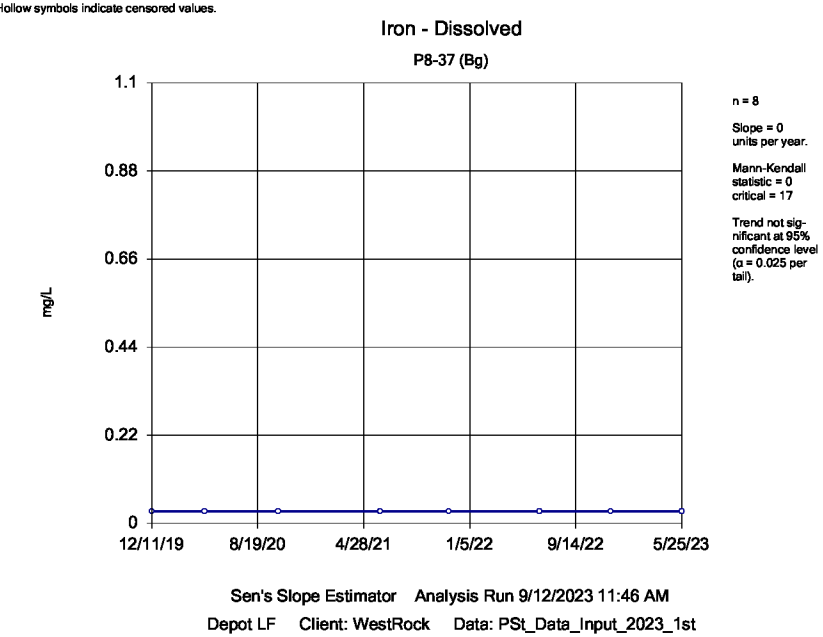

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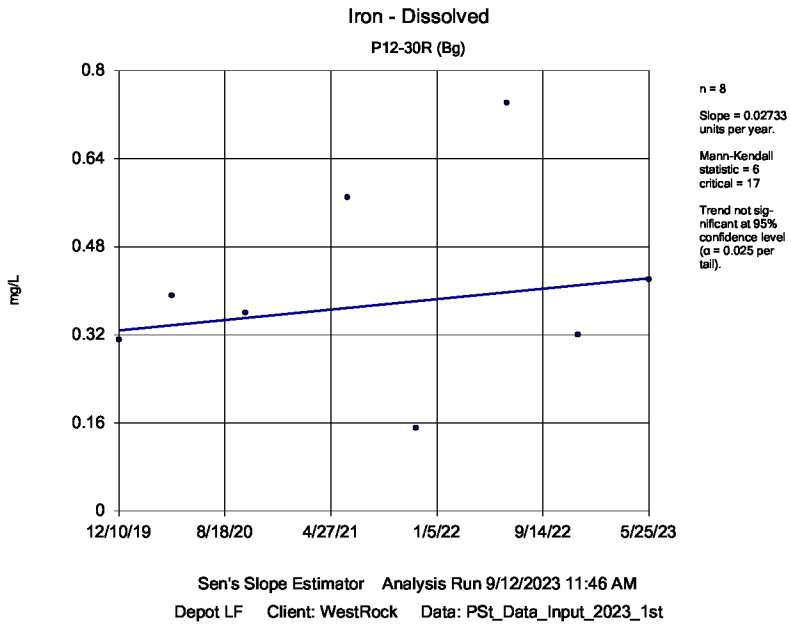
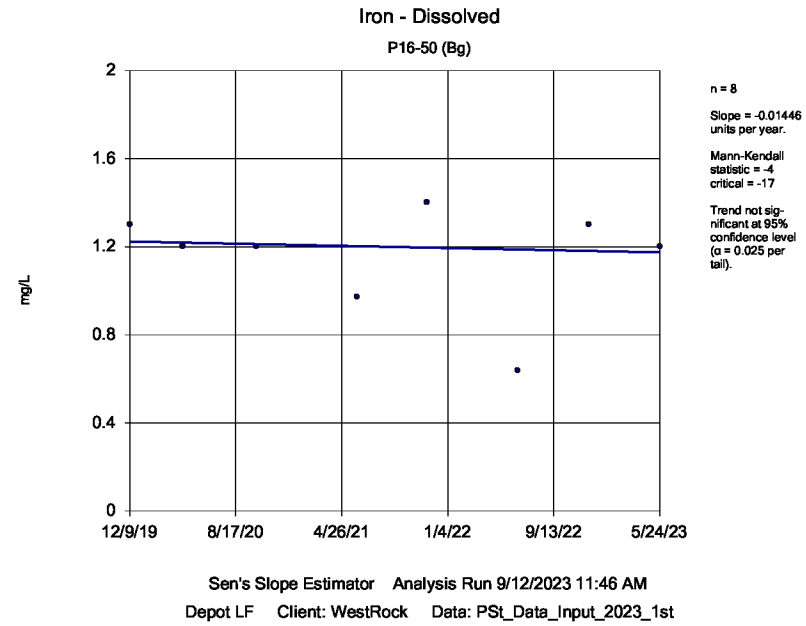


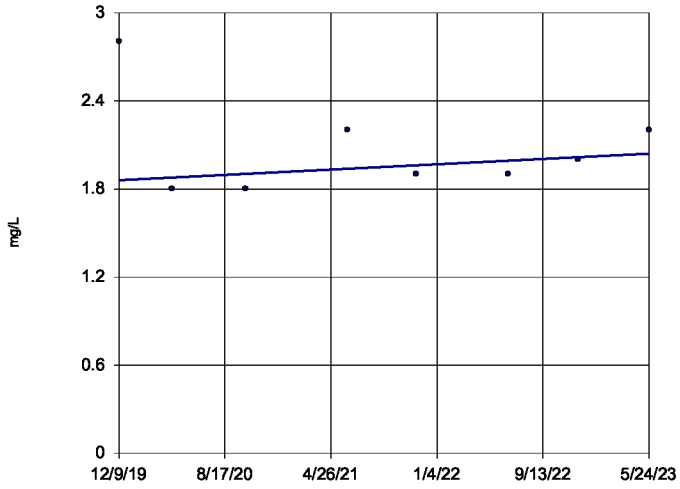
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Iron - Dissolved

P17-50 (Bg)



n = 8

Slope = 0.05201 units per year.

Mann-Kendall statistic = 5 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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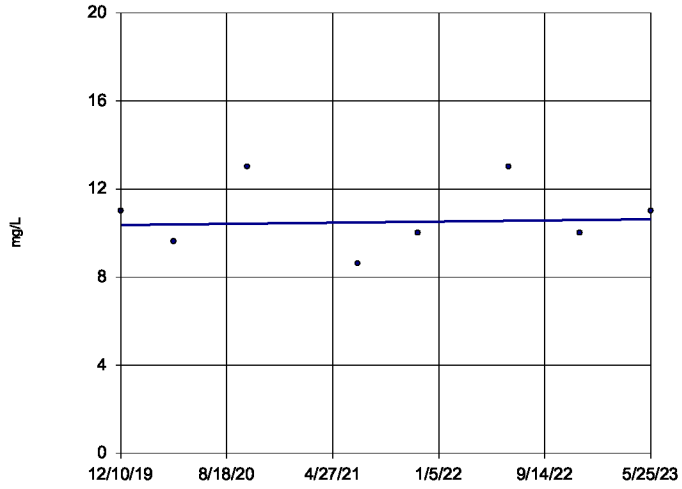
Iron - Dissolved

P9-45R (Bg)



n = 8

Slope = 0.07549 units per year.

Mann-Kendall statistic = 3 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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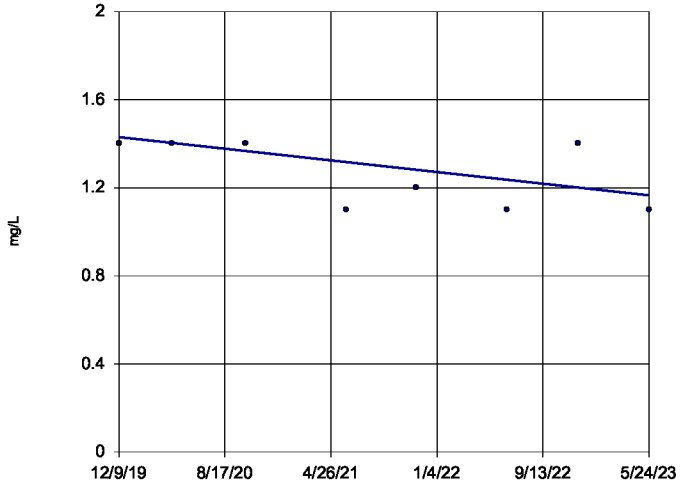
Iron - Dissolved

P18-50 (Bg)



n = 8

Slope = -0.07627 units per year.

Mann-Kendall statistic = -11 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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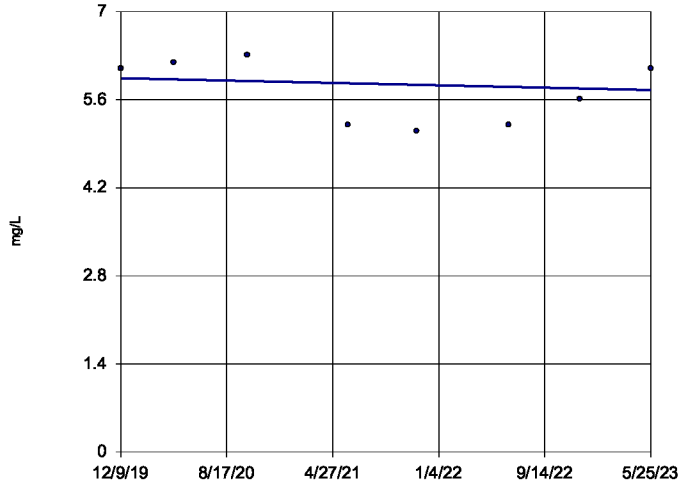
Iron - Dissolved

P19-50 (Bg)



n = 8

Slope = -0.05405 units per year.

Mann-Kendall statistic = -4 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

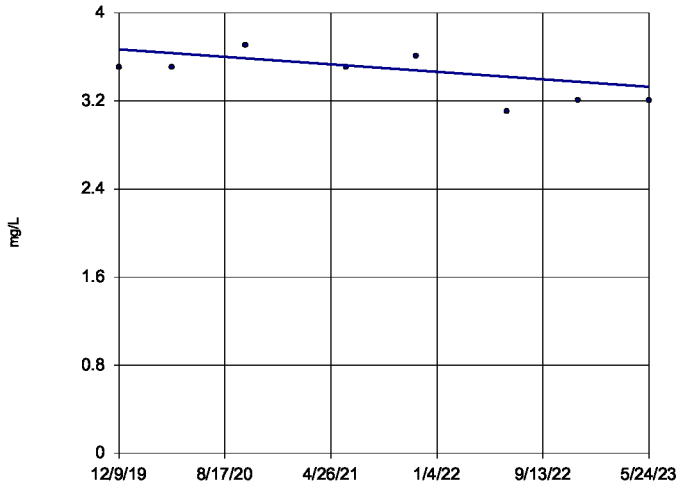
Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Iron - Dissolved

P20-50 (Bg)



n = 8

Slope = -0.09828 units per year.

Mann-Kendall statistic = -10 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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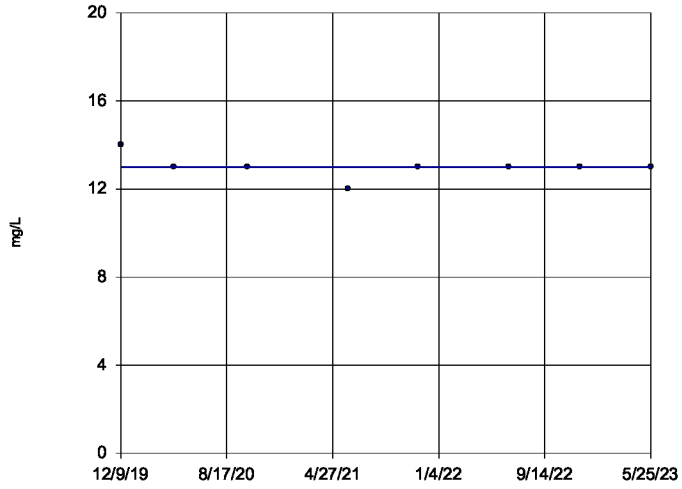
Iron - Dissolved

P21-47 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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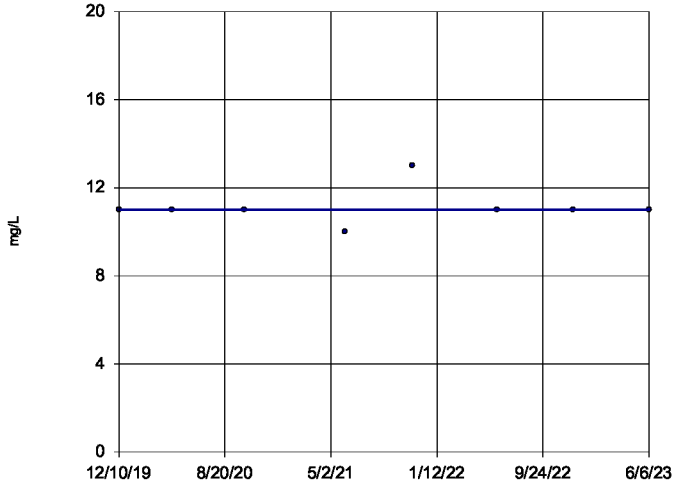
Iron - Dissolved

P22-45 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

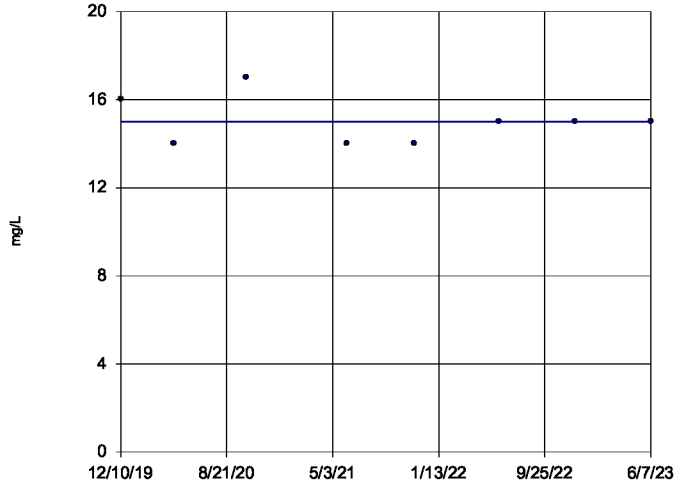
Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Iron - Dissolved

P23-40 (Bg)



n = 8

Slope = 0 units per year.

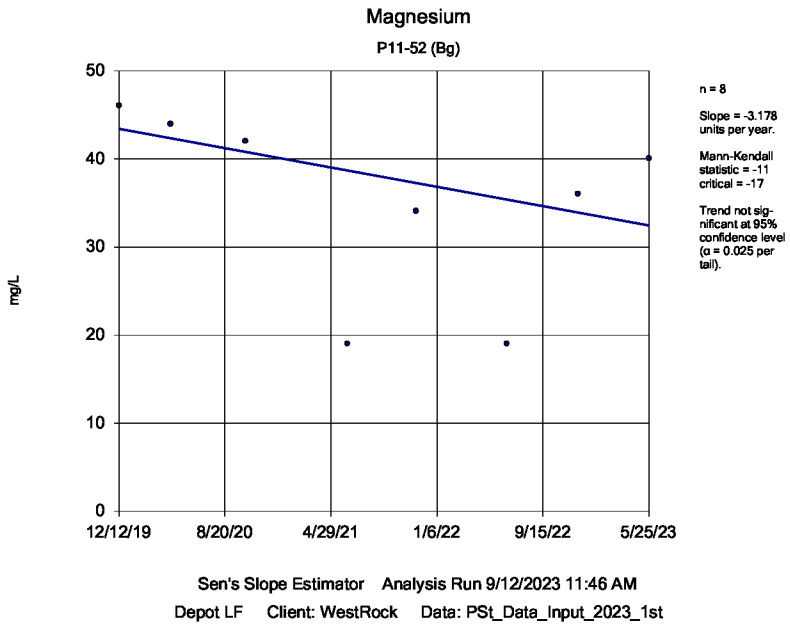
Mann-Kendall statistic = 0 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

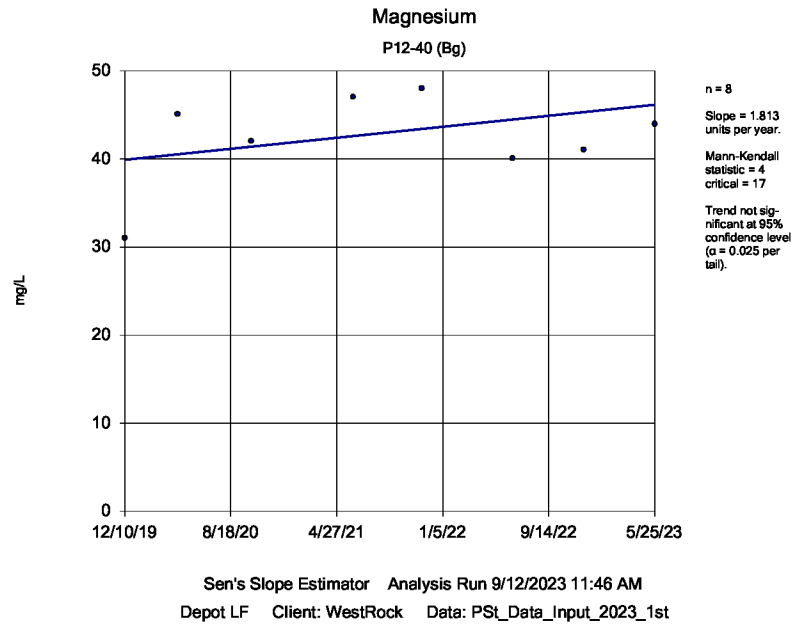
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

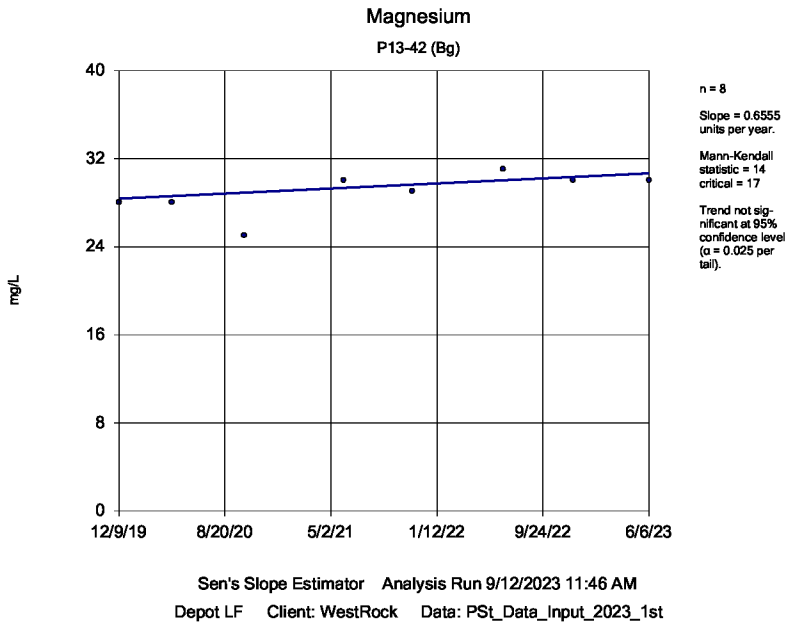
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

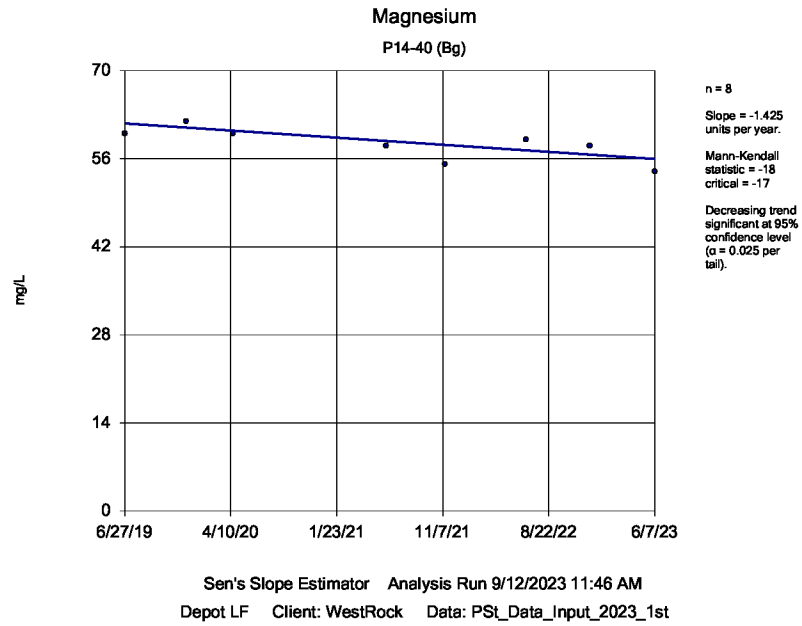
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

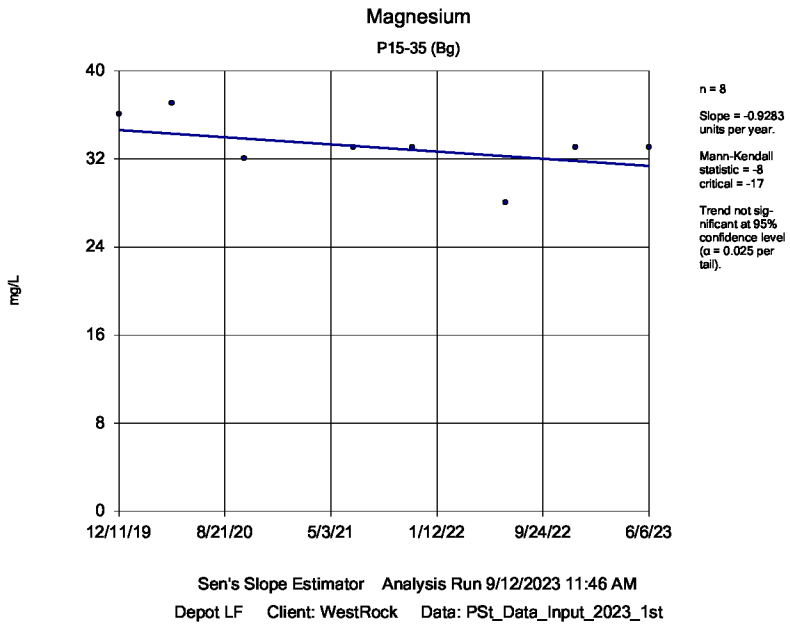
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

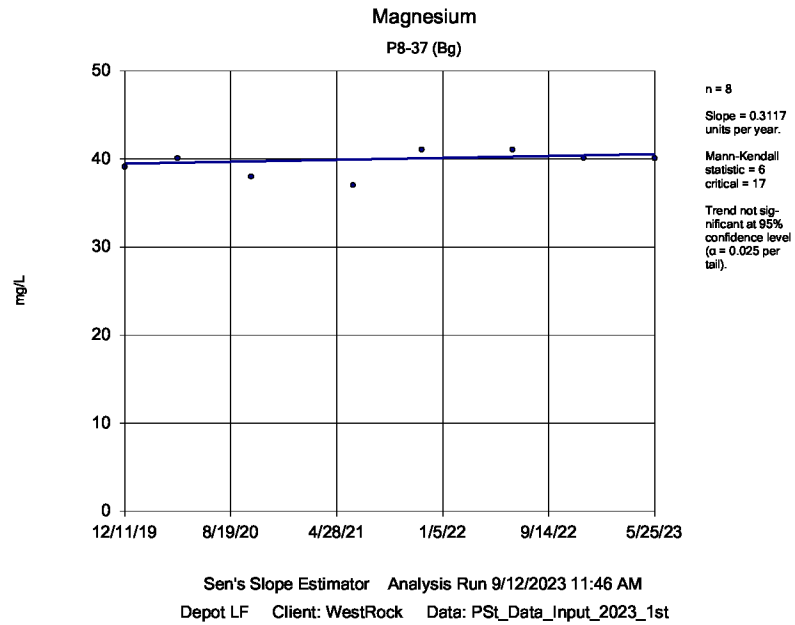
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

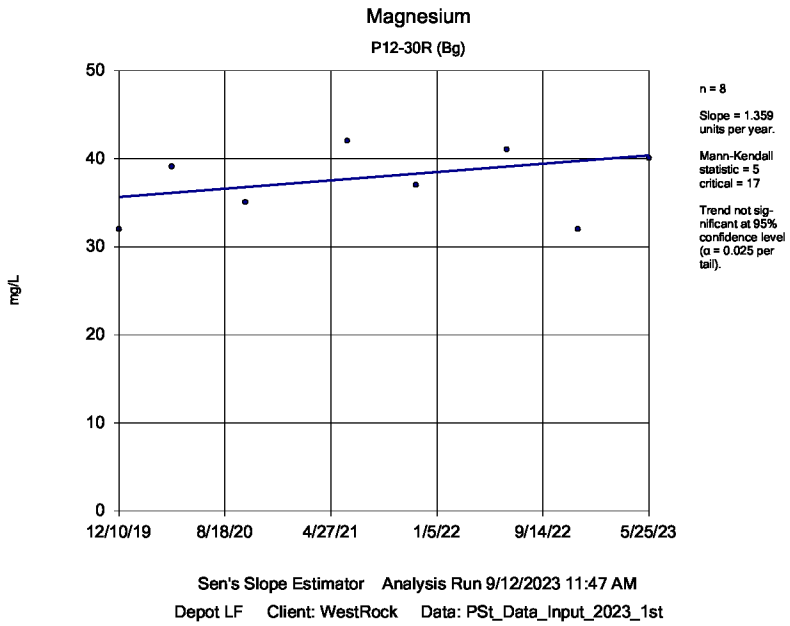
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:46 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

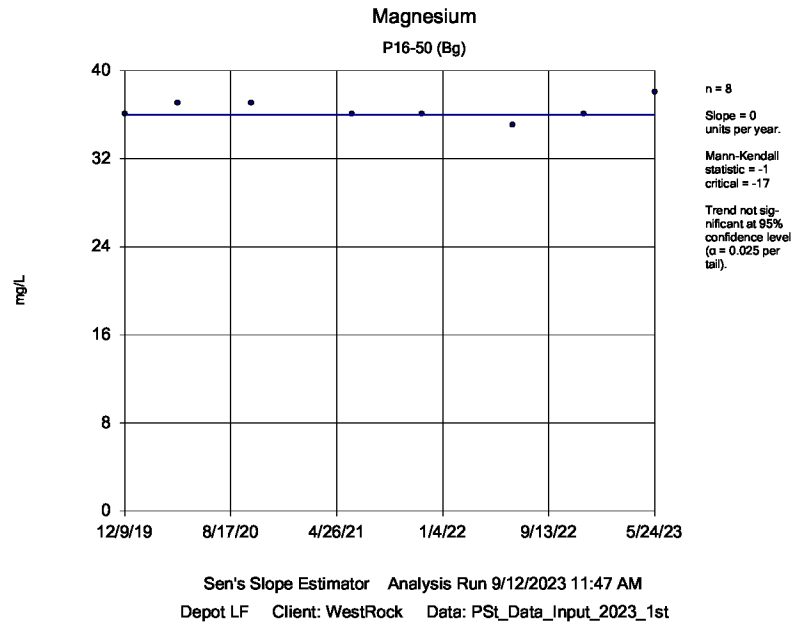
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

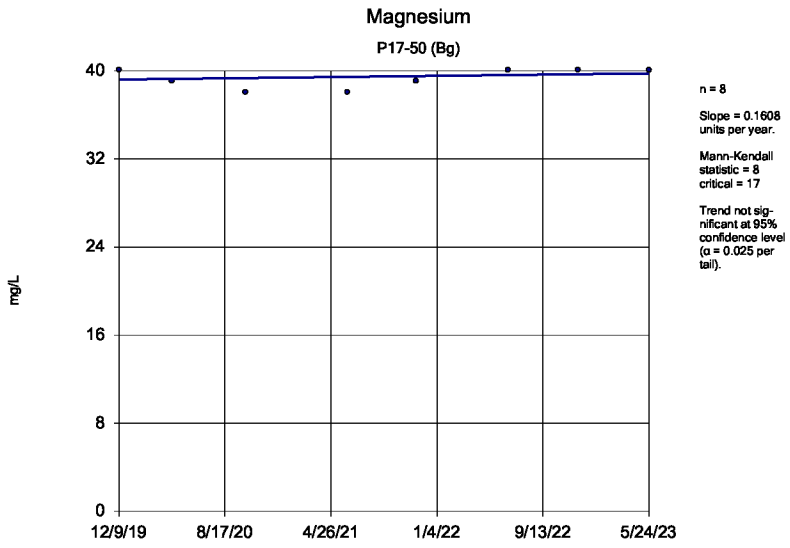
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

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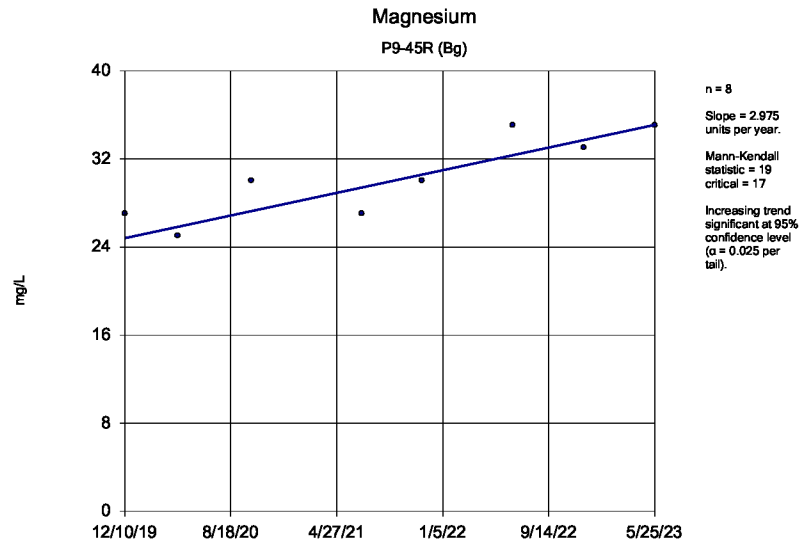
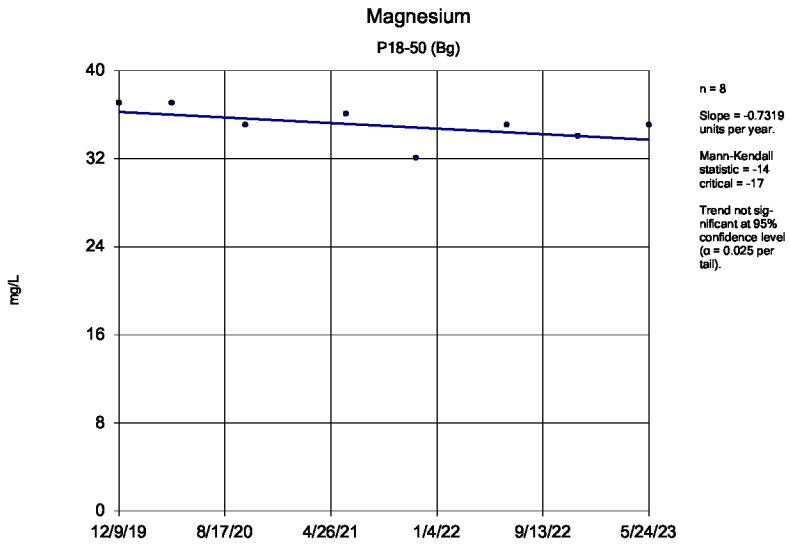
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

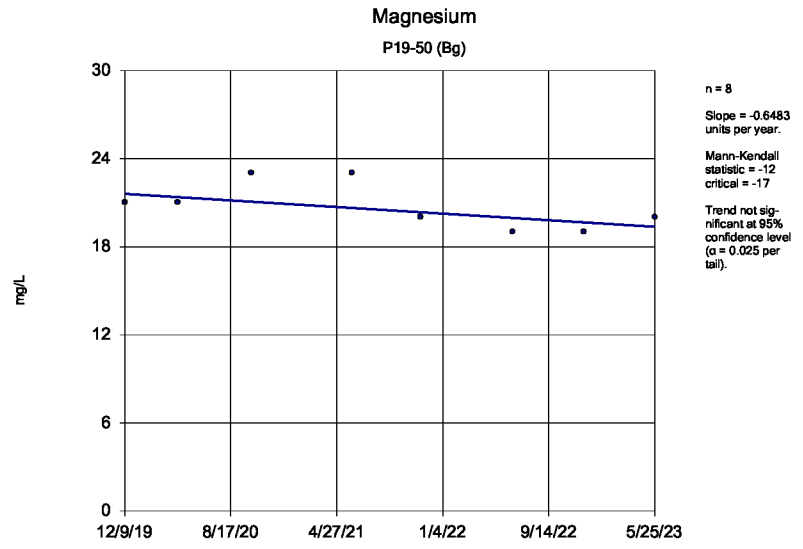
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

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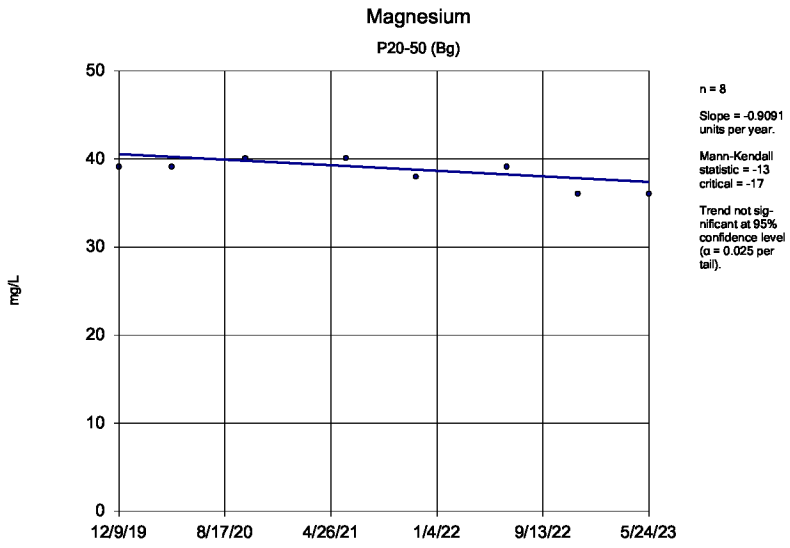
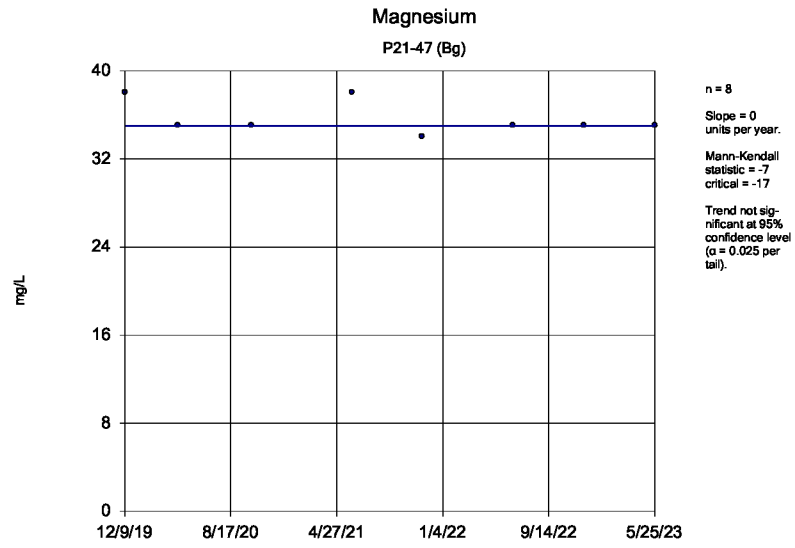
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

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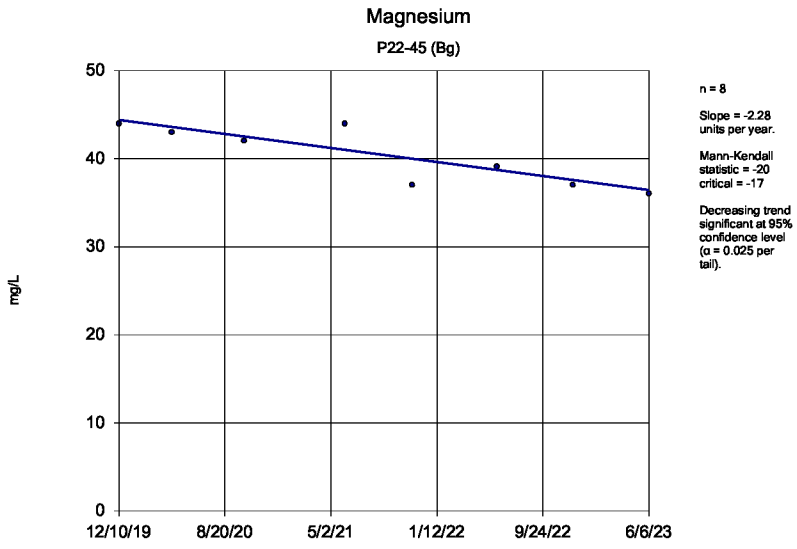
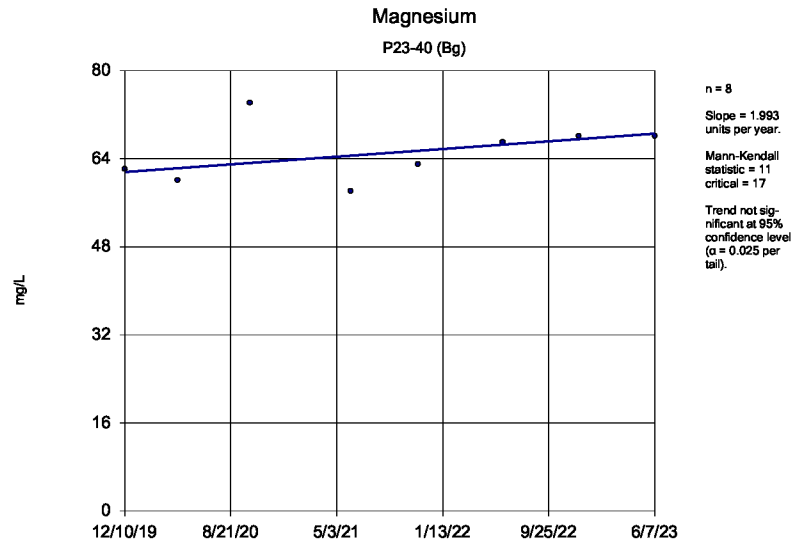
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



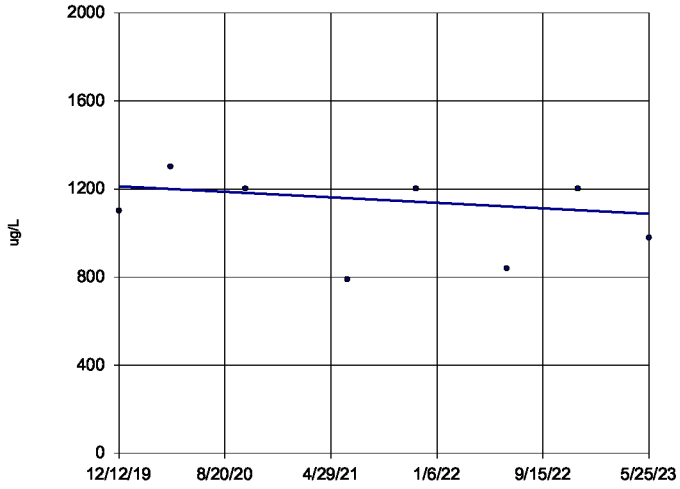
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese

P11-52 (Bg)



n = 8

Slope = -36.23 units per year.

Mann-Kendall statistic = -5 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

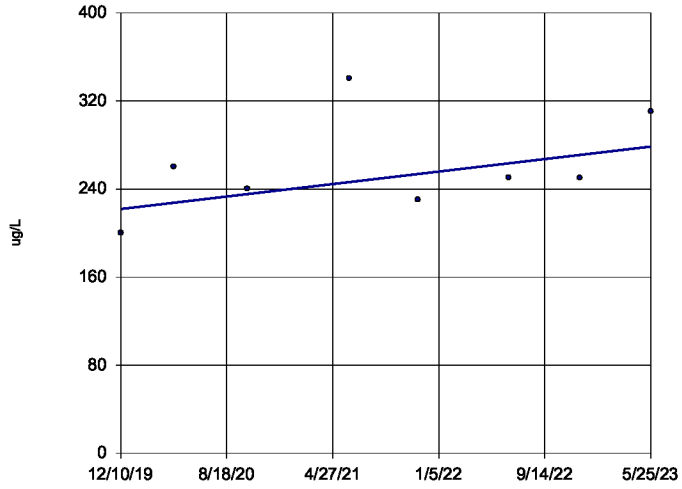
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese

P12-40 (Bg)



n = 8

Slope = 16.37 units per year.

Mann-Kendall statistic = 9 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

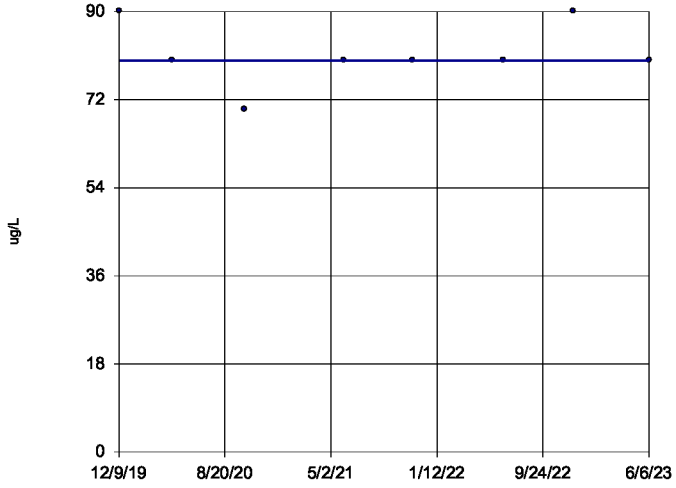
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese

P13-42 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

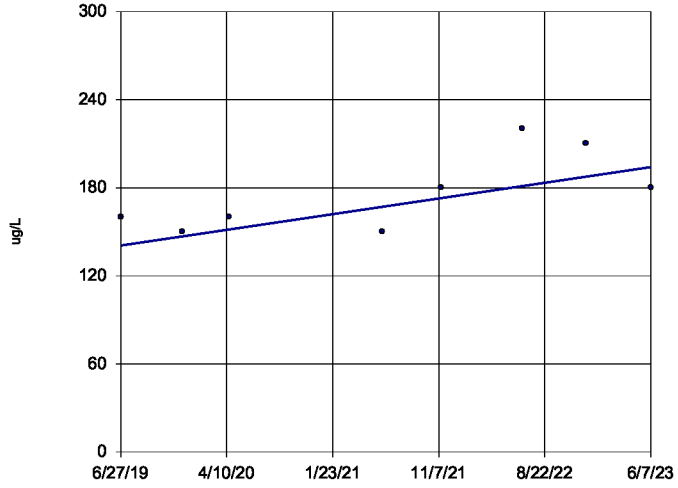
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese

P14-40 (Bg)



n = 8

Slope = 13.52 units per year.

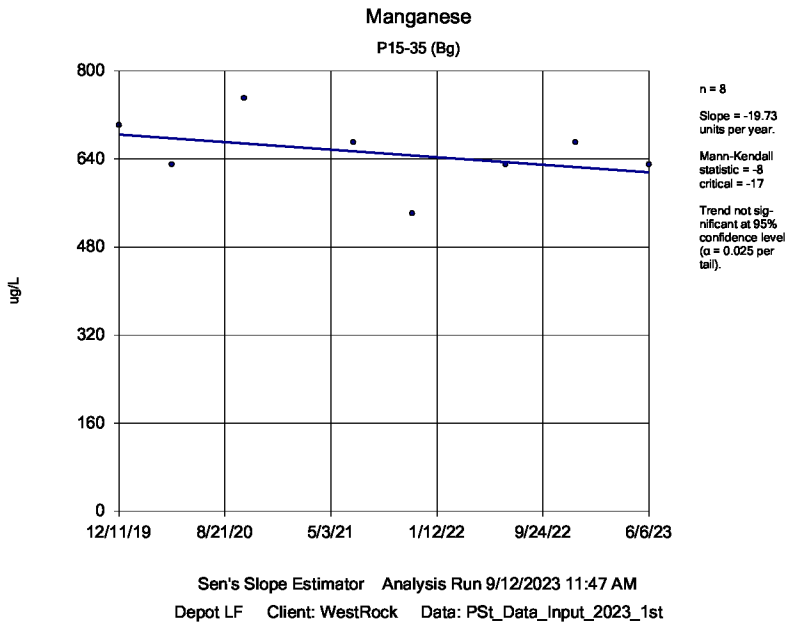
Mann-Kendall statistic = 13 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

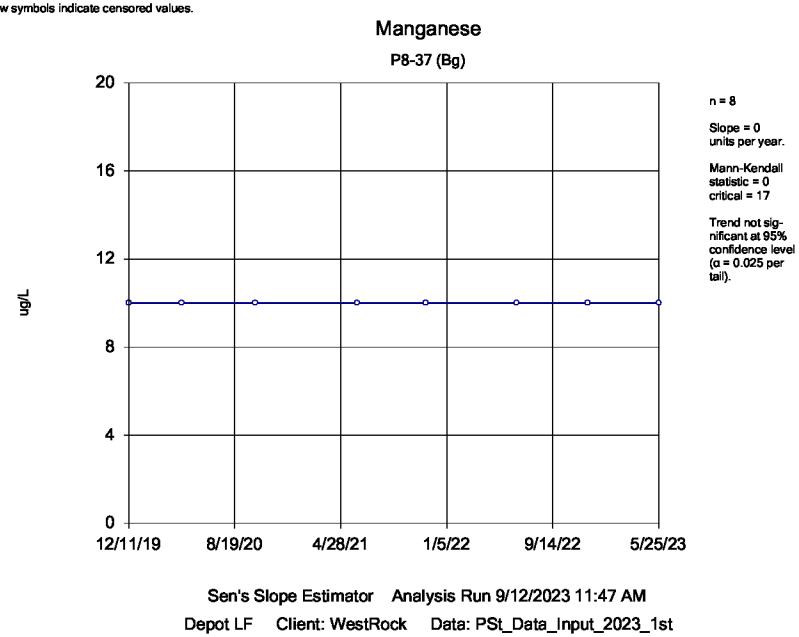


Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

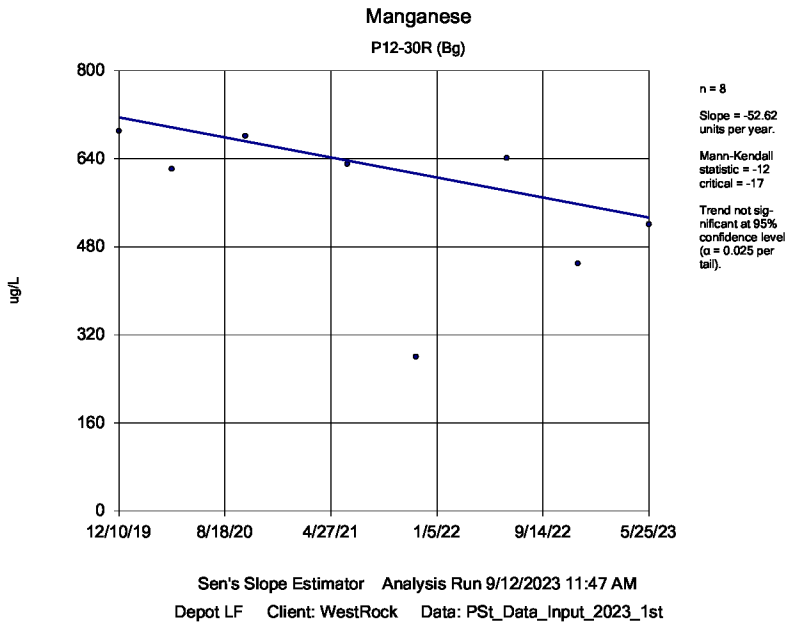
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

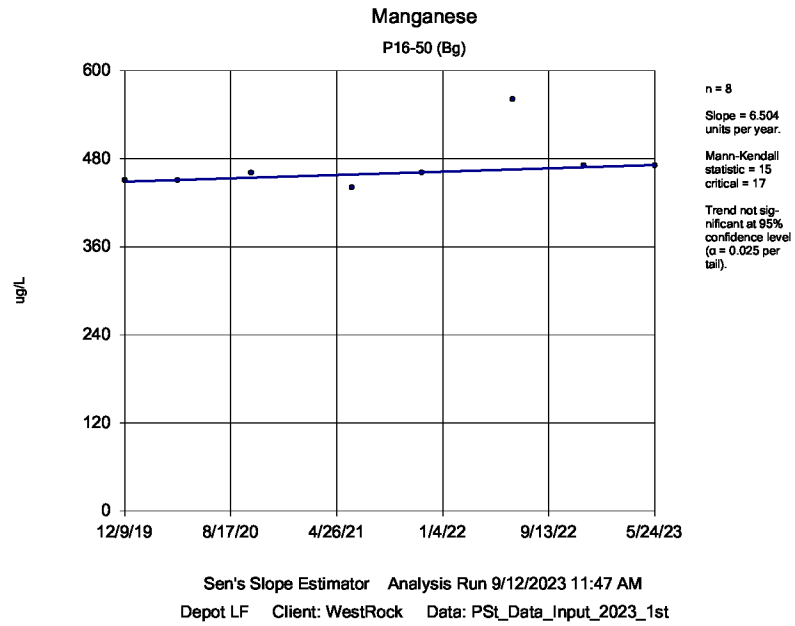
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

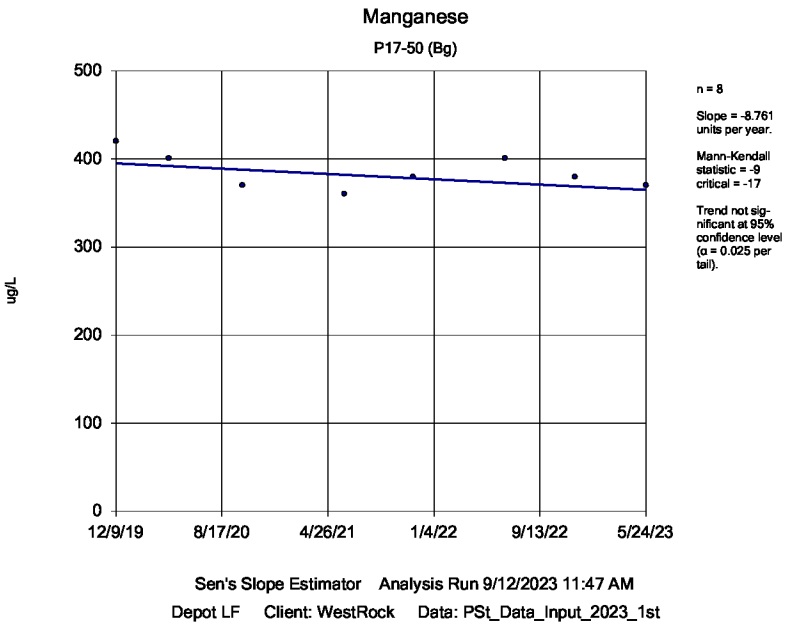
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

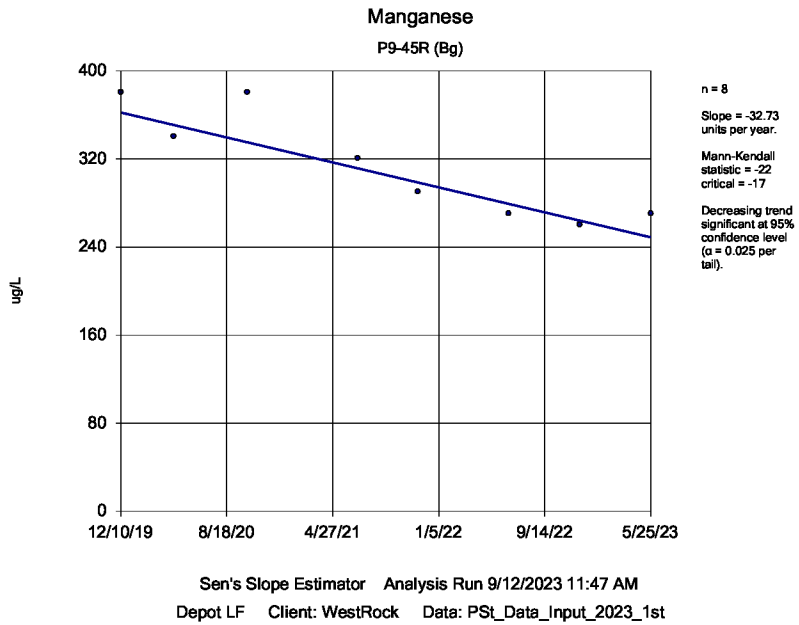
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

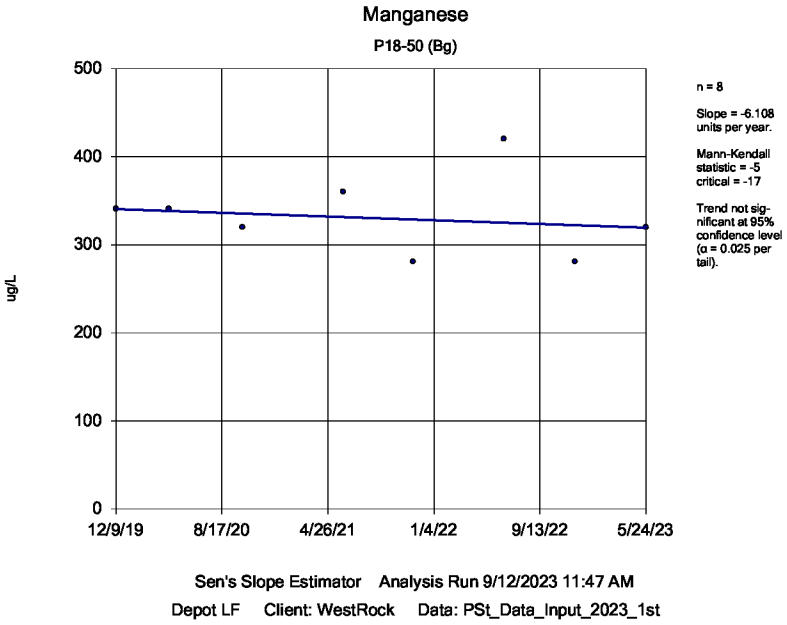
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

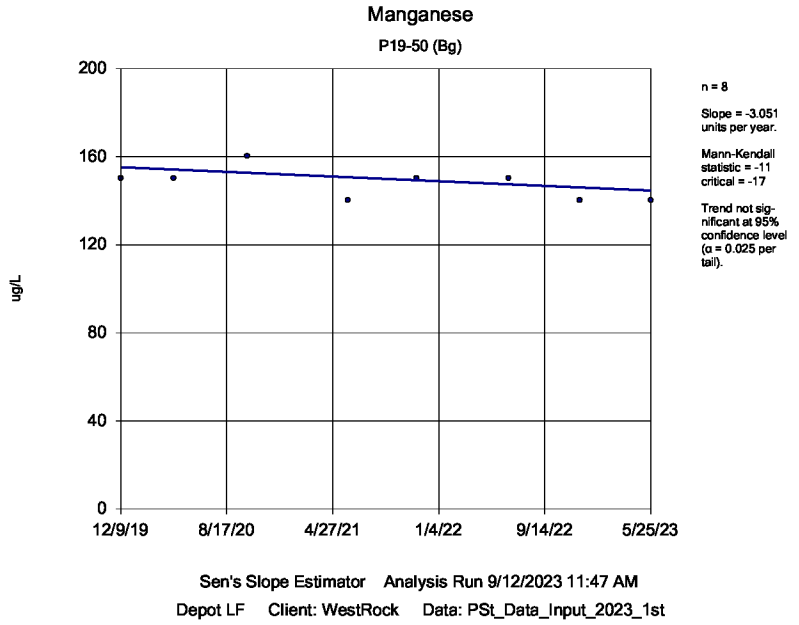
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

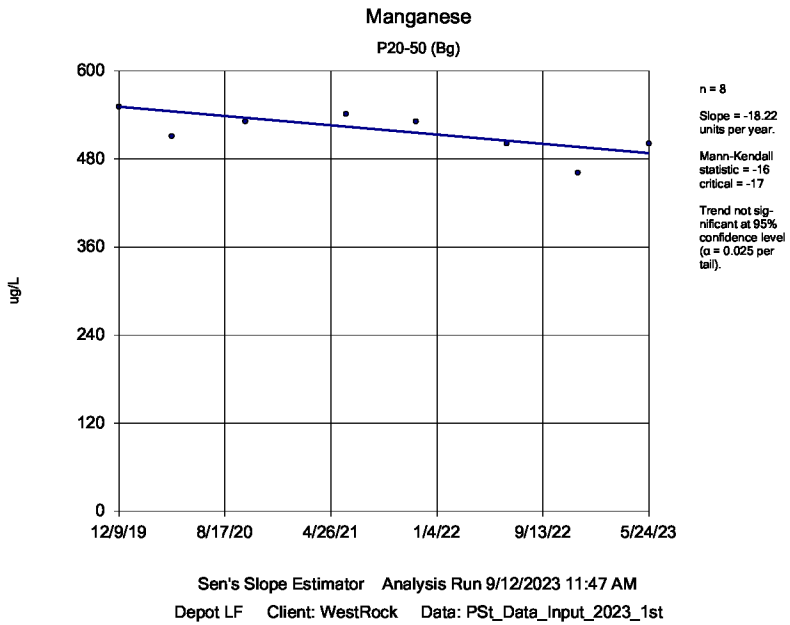
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

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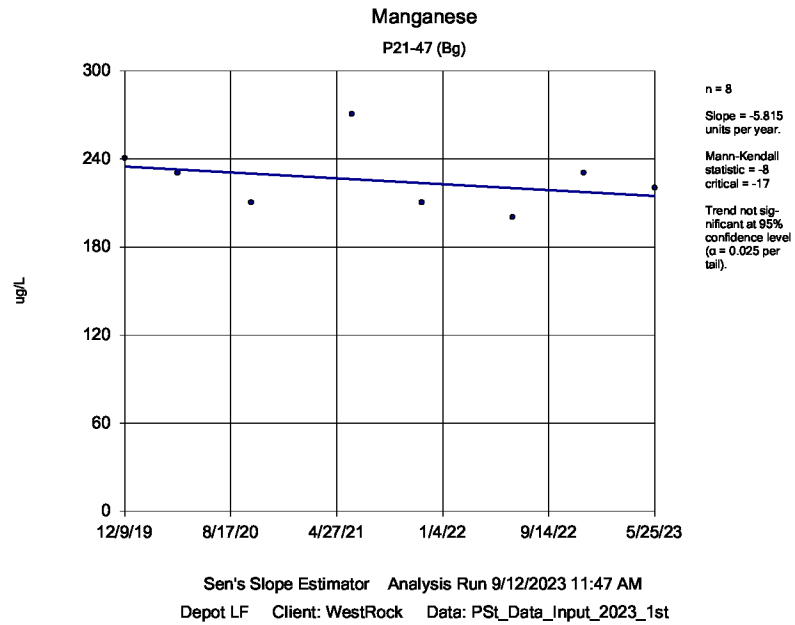
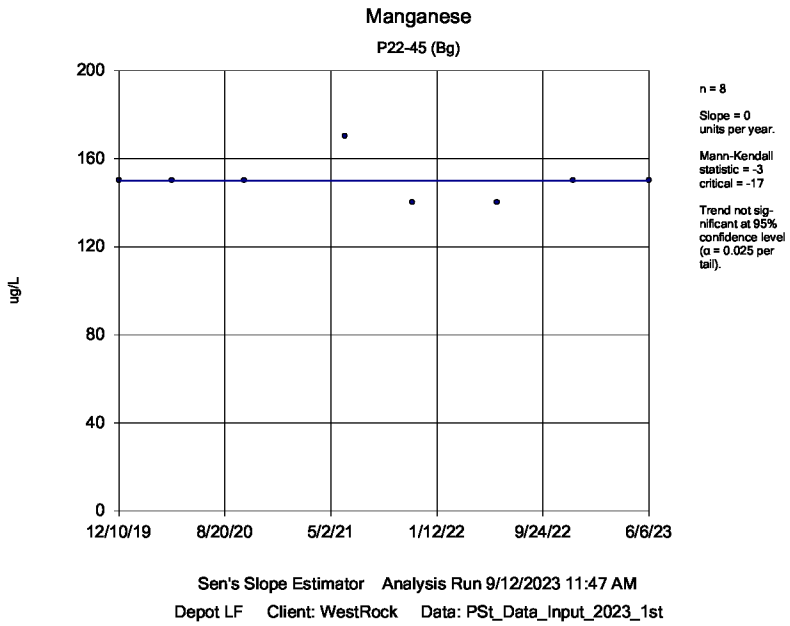
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

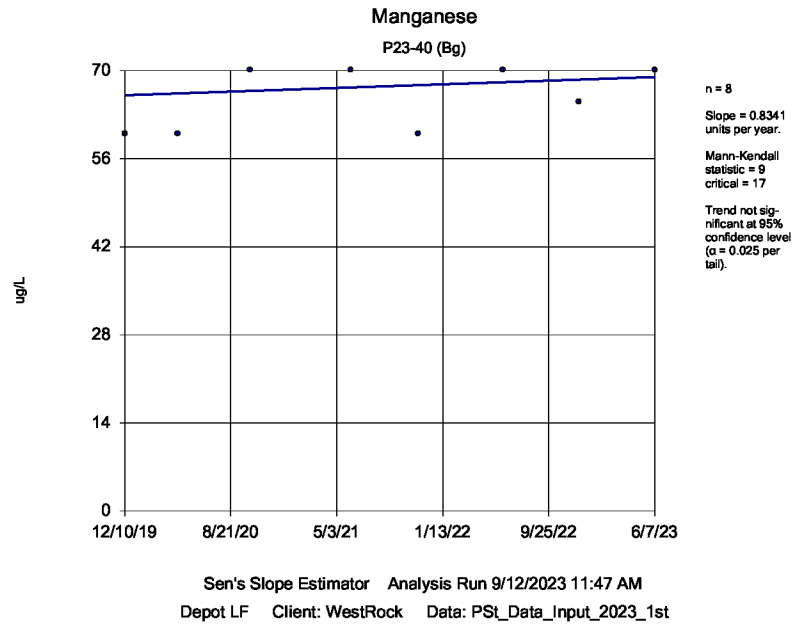
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



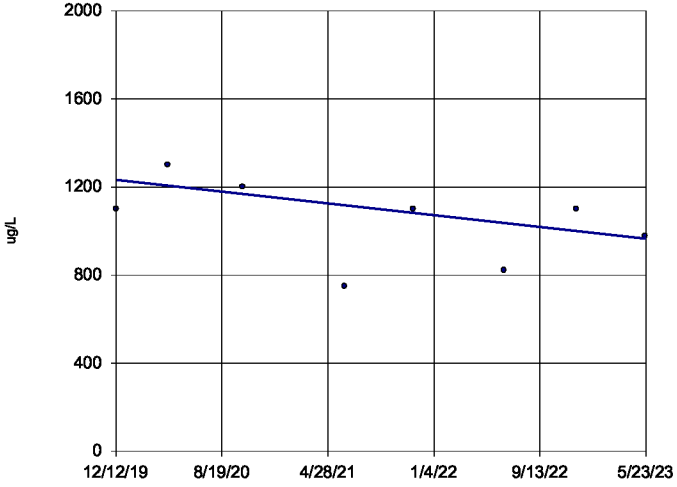
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese - Dissolved

P11-52 (Bg)



n = 8

Slope = -77.38 units per year.

Mann-Kendall statistic = -9 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

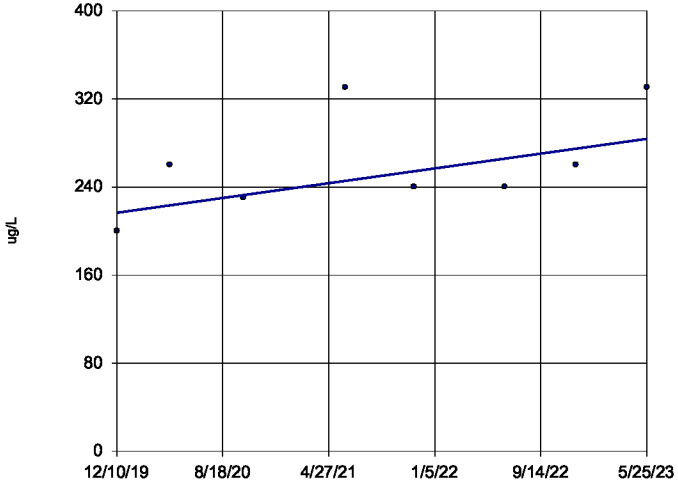
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Manganese - Dissolved

P12-40 (Bg)



n = 8

Slope = 19.43 units per year.

Mann-Kendall statistic = 13 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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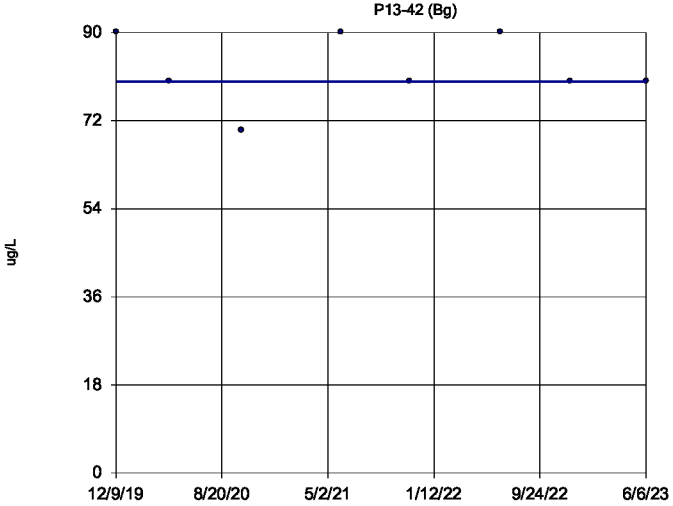
Manganese - Dissolved

P13-42 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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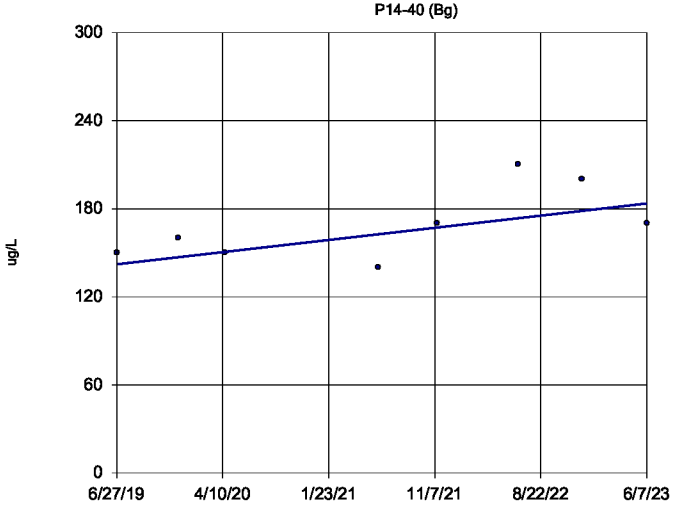
Manganese - Dissolved

P14-40 (Bg)



n = 8

Slope = 10.48 units per year.

Mann-Kendall statistic = 12 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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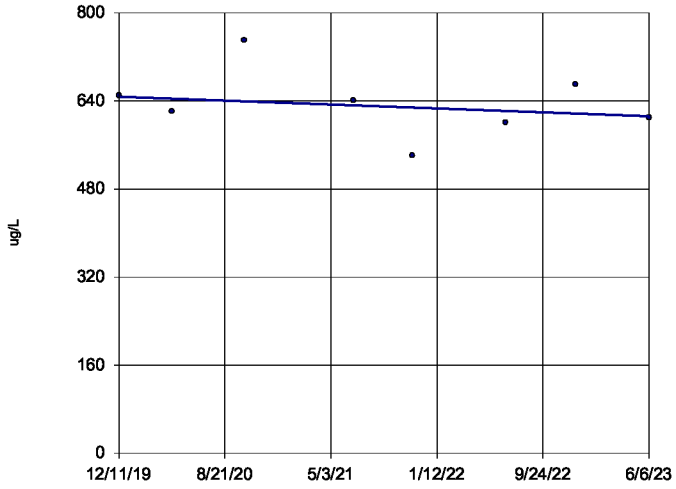
Manganese - Dissolved

P15-35 (Bg)



n = 8

Slope = -10.28 units per year.

Mann-Kendall statistic = -6 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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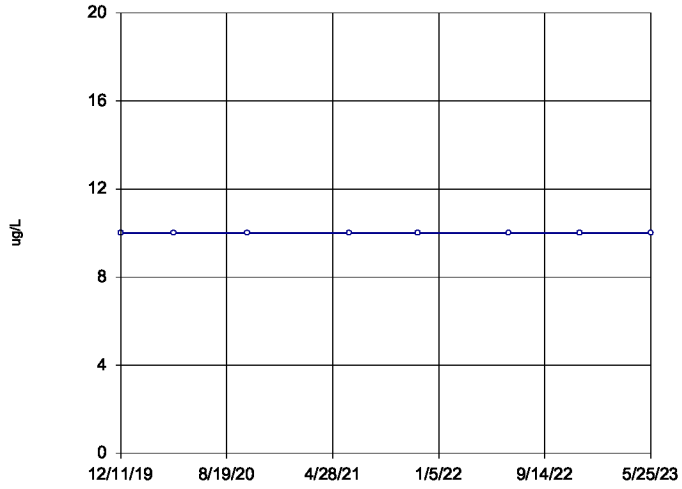
Hollow symbols indicate censored values.

Manganese - Dissolved

P8-37 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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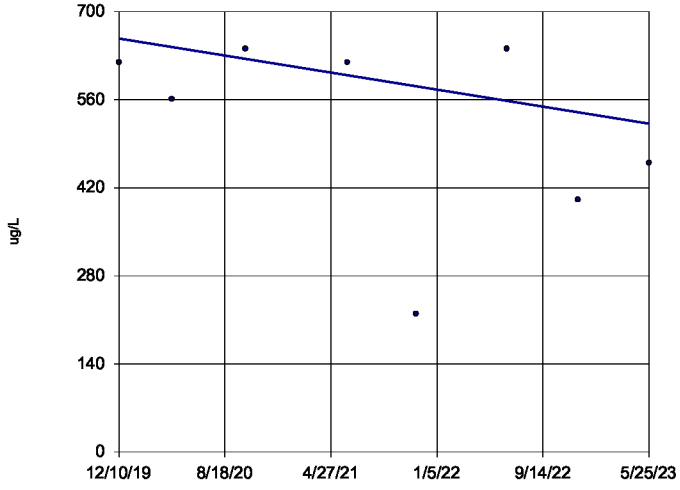
Manganese - Dissolved

P12-30R (Bg)



n = 8

Slope = -39.22 units per year.

Mann-Kendall statistic = -6 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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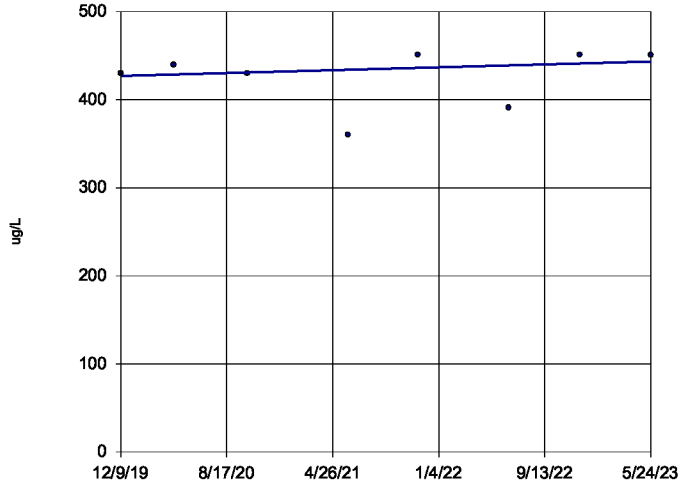
Manganese - Dissolved

P16-50 (Bg)



n = 8

Slope = 4.78 units per year.

Mann-Kendall statistic = 8 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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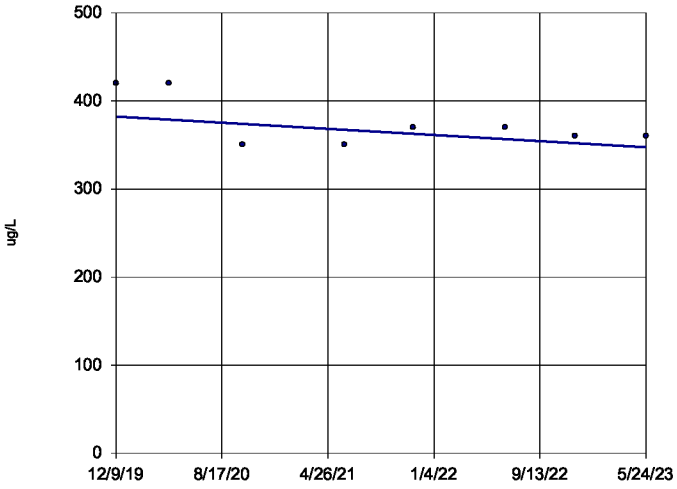
Manganese - Dissolved

P17-50 (Bg)



n = 8

Slope = -10.16 units per year.

Mann-Kendall statistic = -8 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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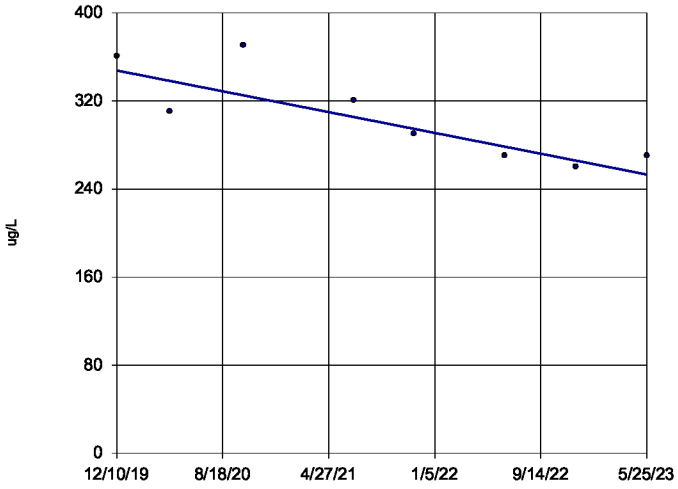
Manganese - Dissolved

P9-45R (Bg)



n = 8

Slope = -27.29 units per year.

Mann-Kendall statistic = -19 critical = -17

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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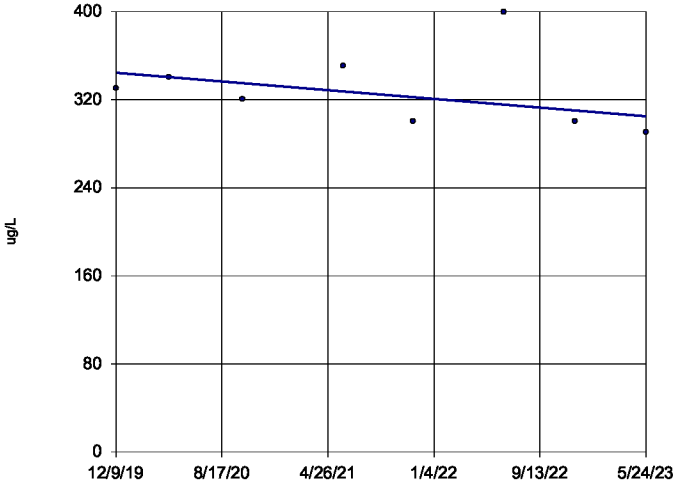
Manganese - Dissolved

P18-50 (Bg)



n = 8

Slope = -11.49 units per year.

Mann-Kendall statistic = -9 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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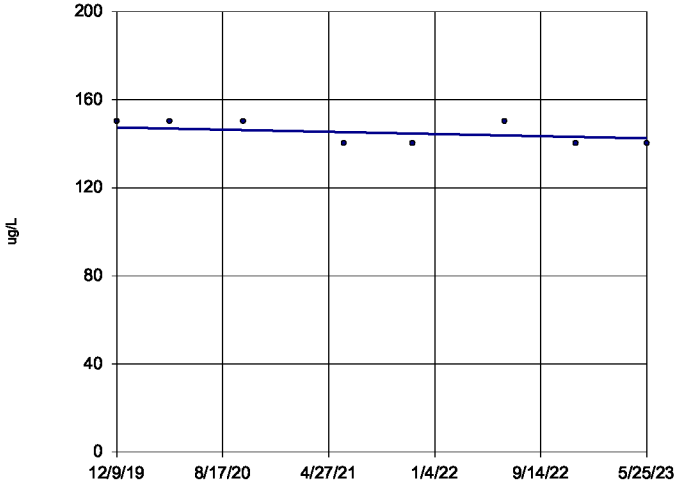
Manganese - Dissolved

P19-50 (Bg)



n = 8

Slope = -1.445 units per year.

Mann-Kendall statistic = -12 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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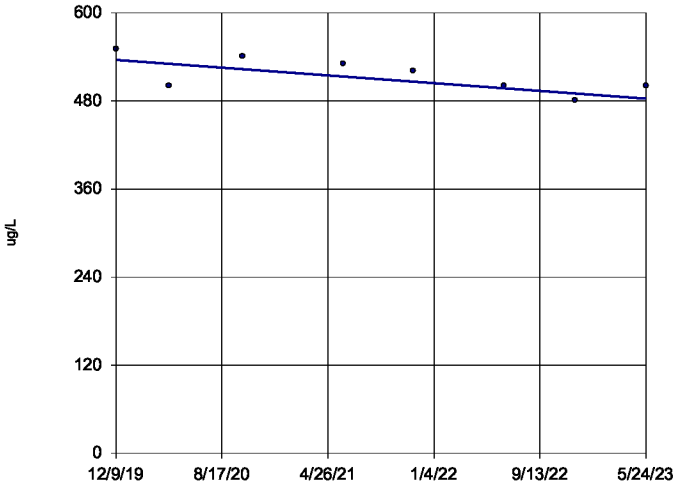
Manganese - Dissolved

P20-50 (Bg)



n = 8

Slope = -15.24 units per year.

Mann-Kendall statistic = -17 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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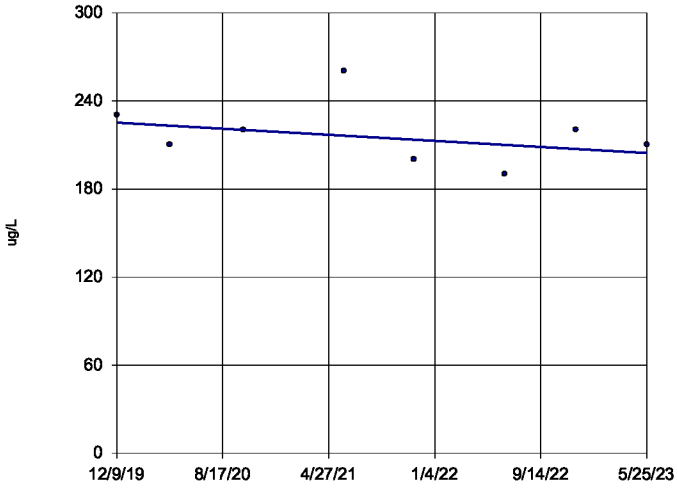
Manganese - Dissolved

P21-47 (Bg)



n = 8

Slope = -6.031 units per year.

Mann-Kendall statistic = -8 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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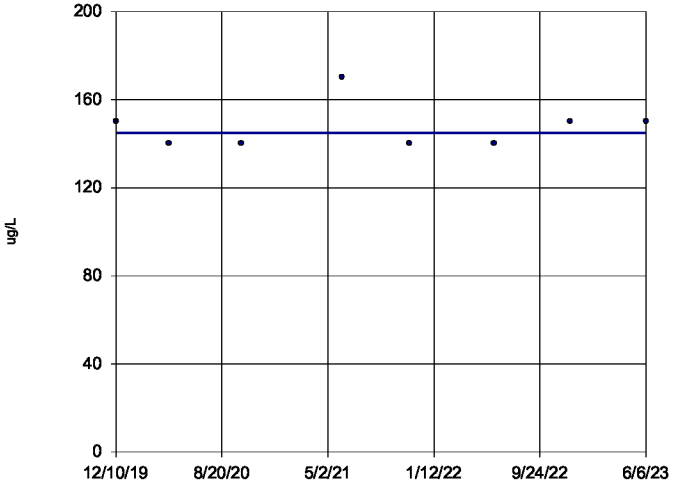
Manganese - Dissolved

P22-45 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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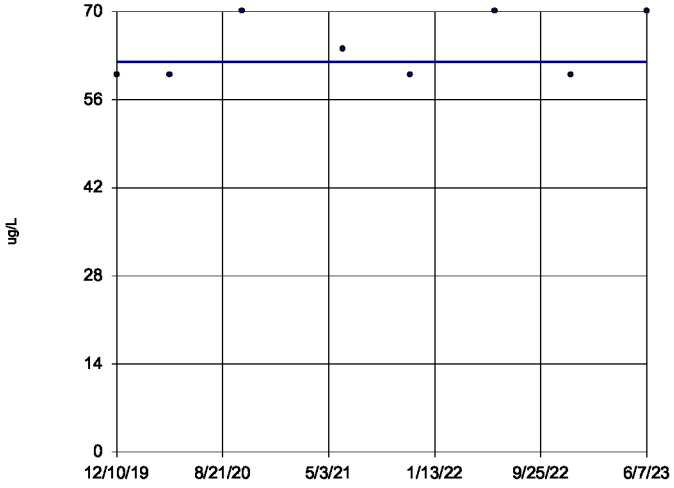
Manganese - Dissolved

P23-40 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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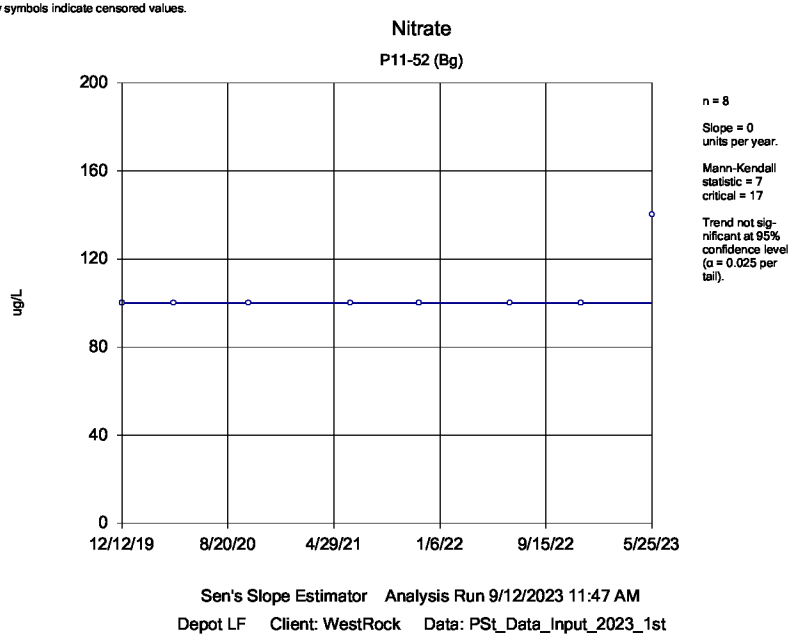
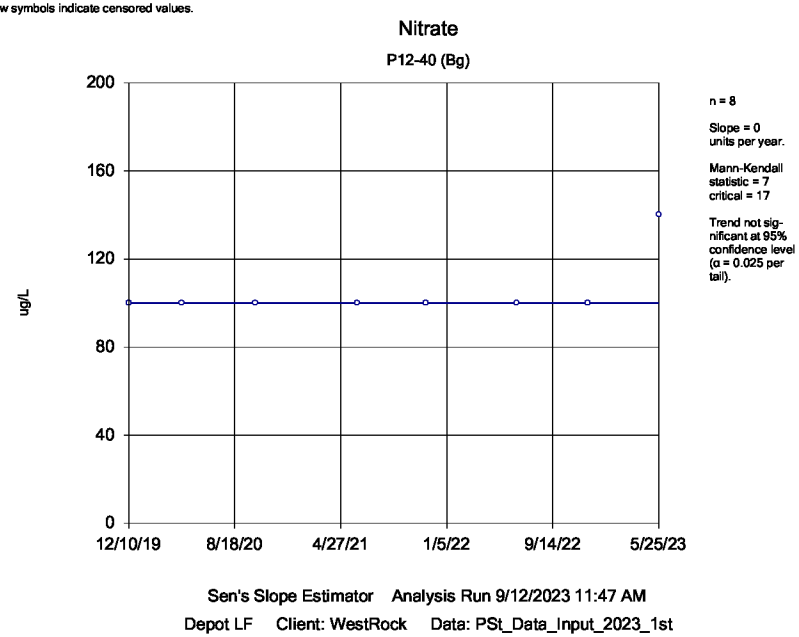
Hollow symbols indicate censored values.



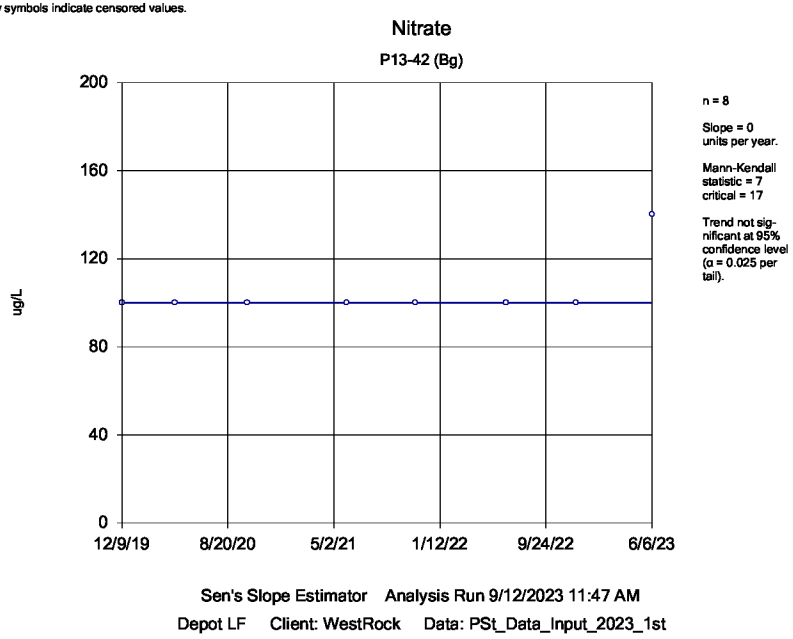
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



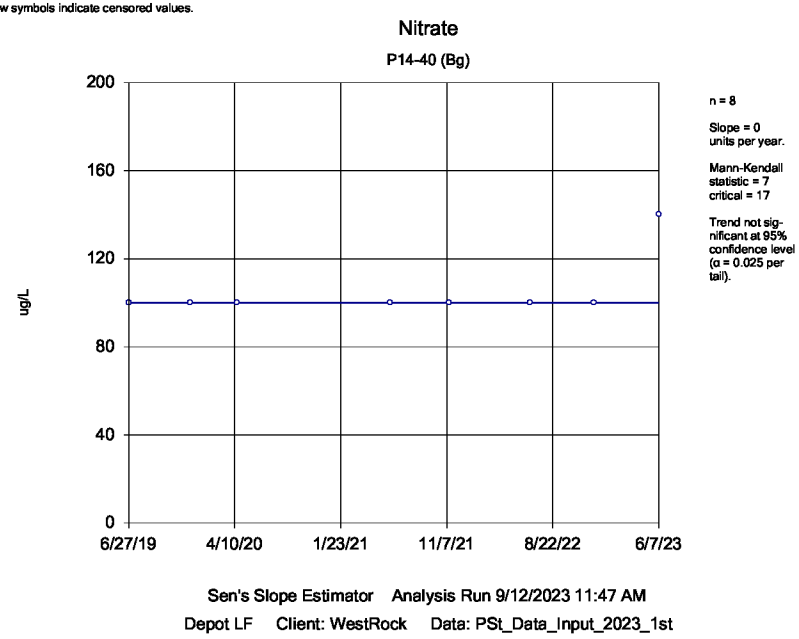
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



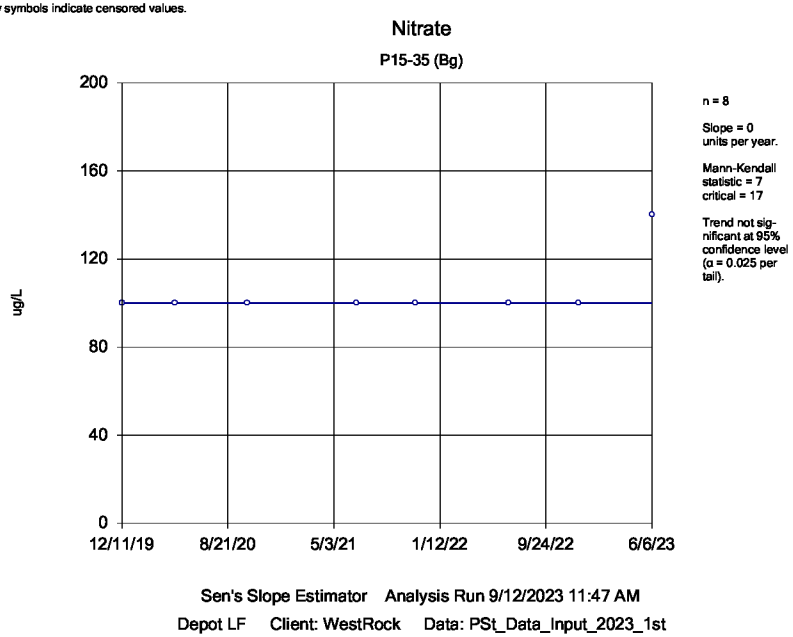
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.

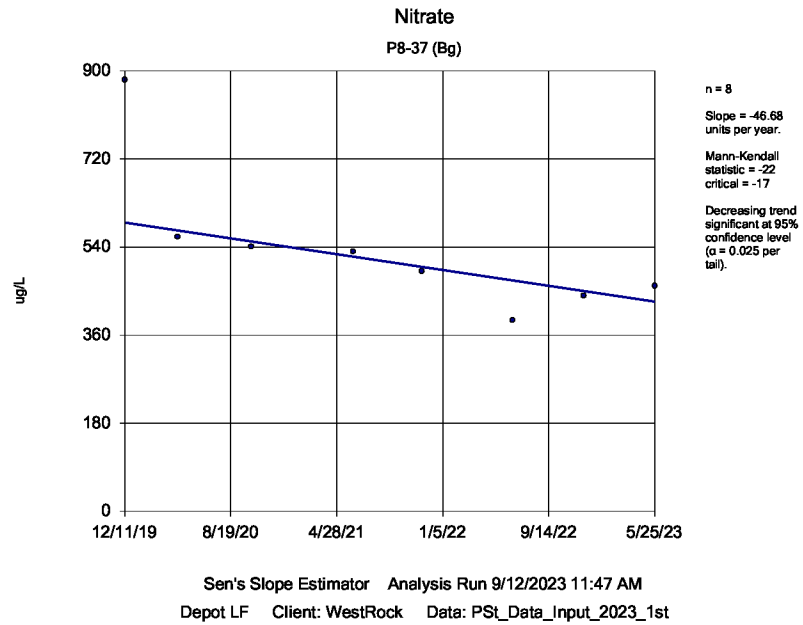


Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

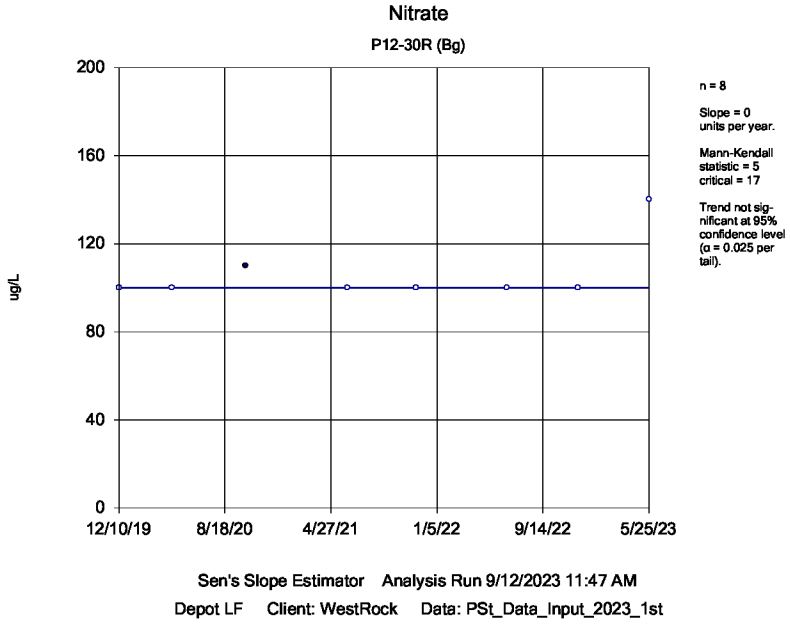
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



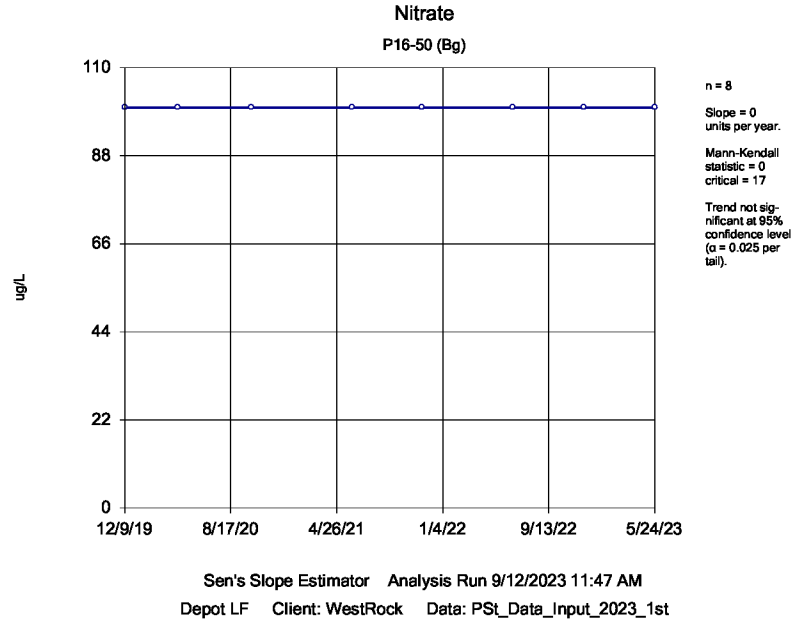
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



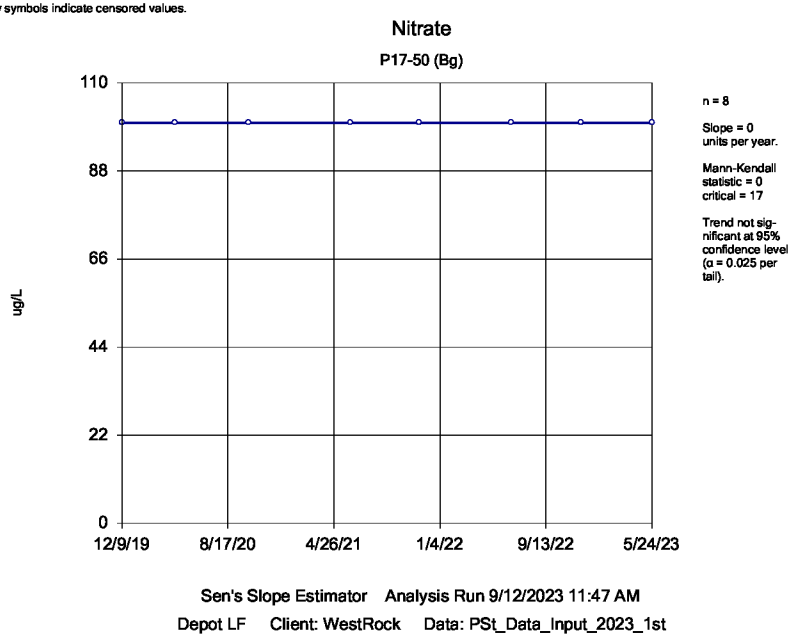
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.

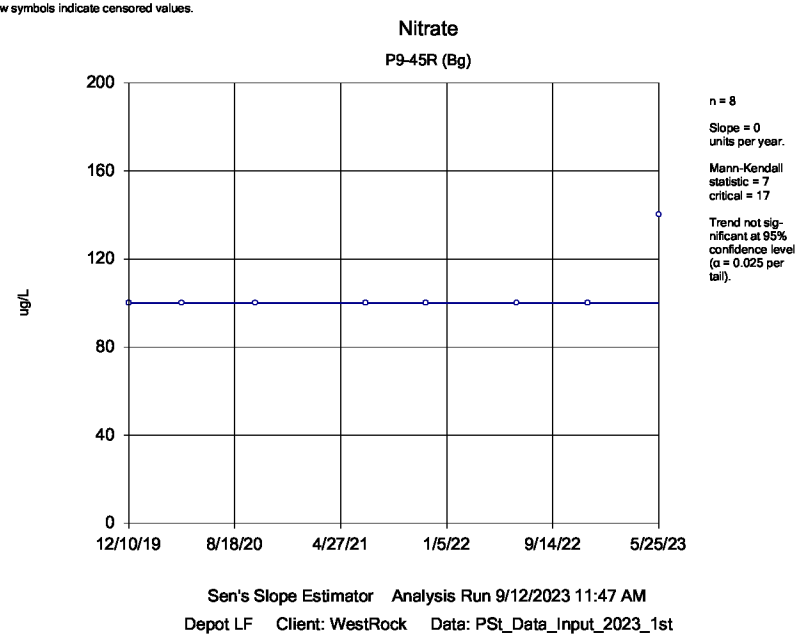


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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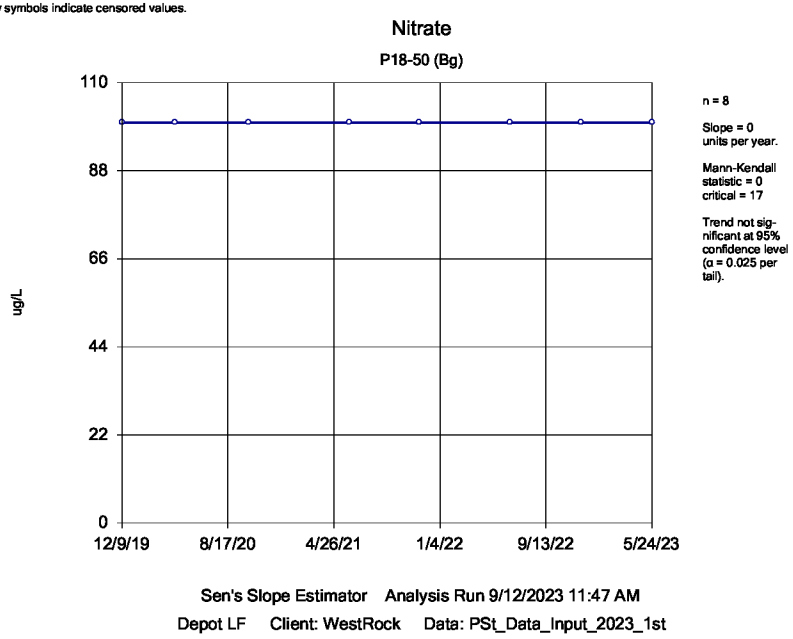
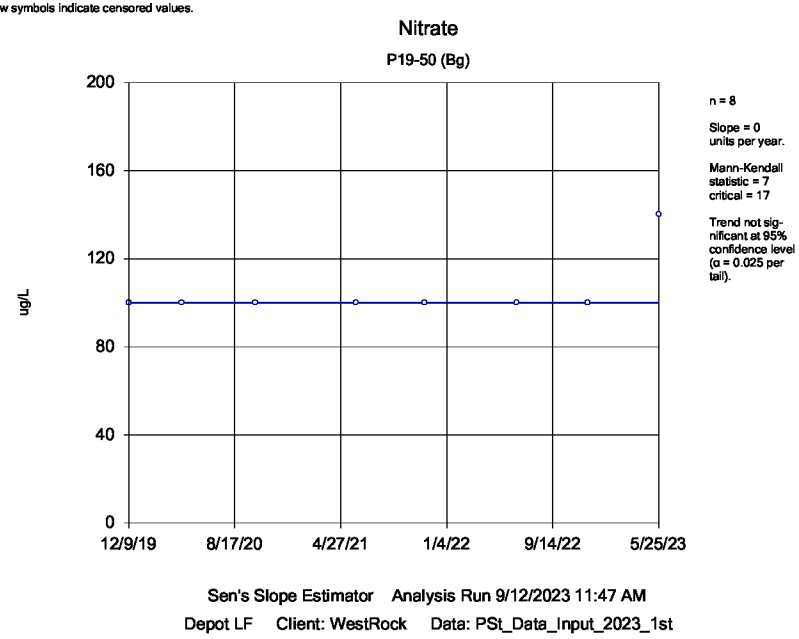


Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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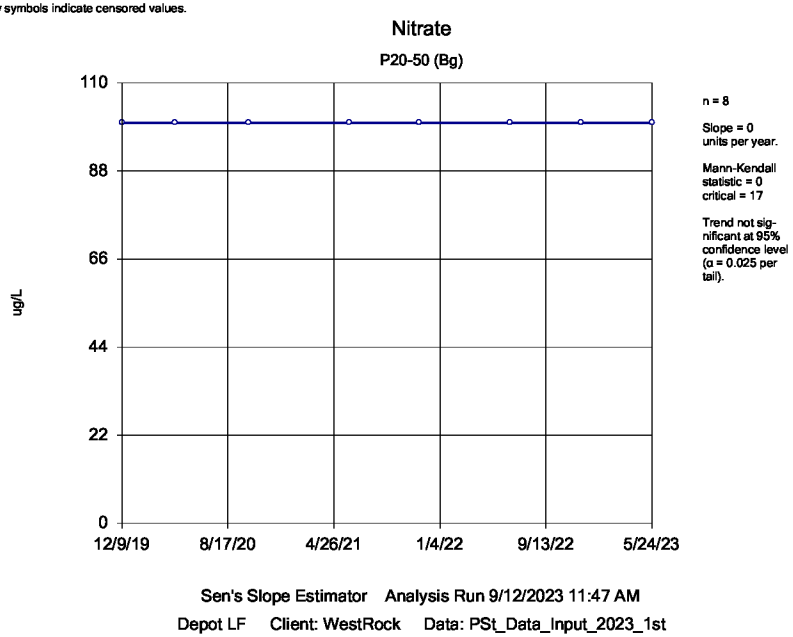

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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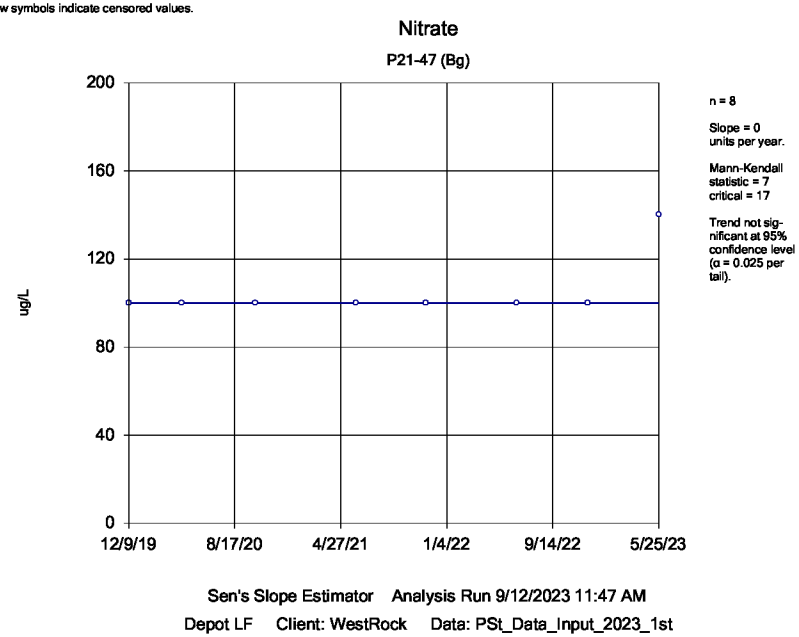

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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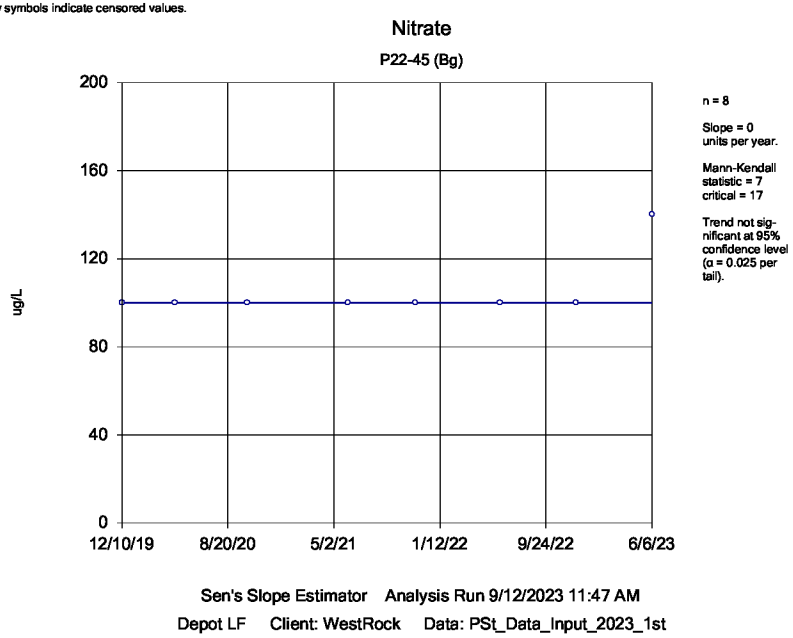

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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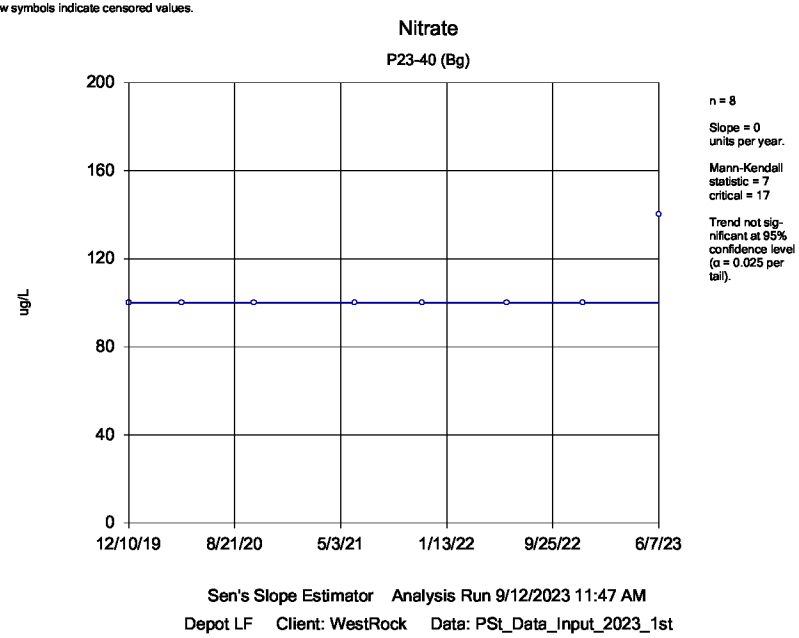

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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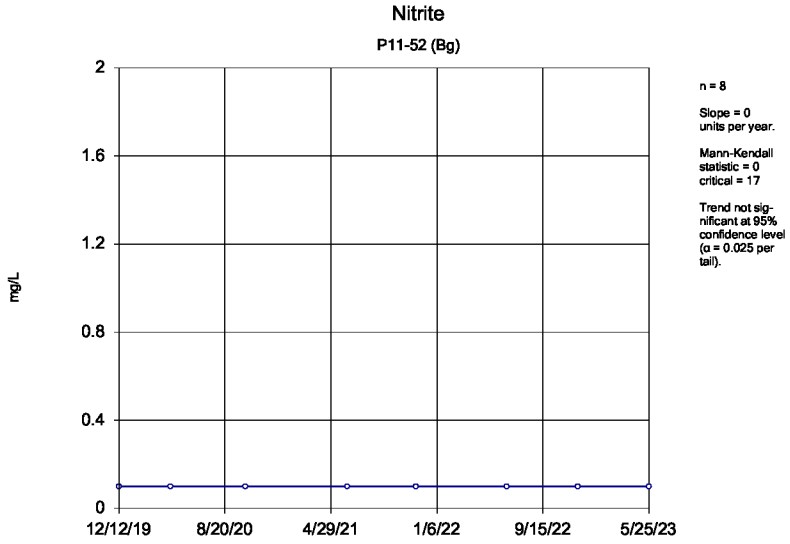

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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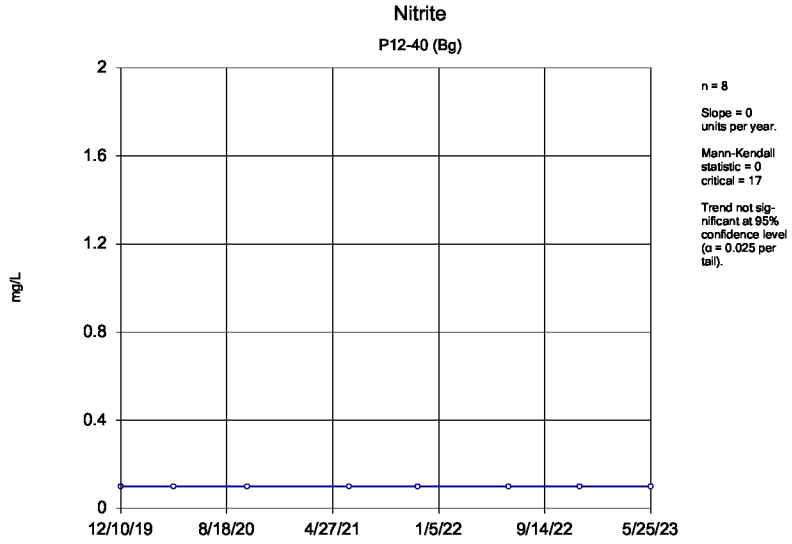
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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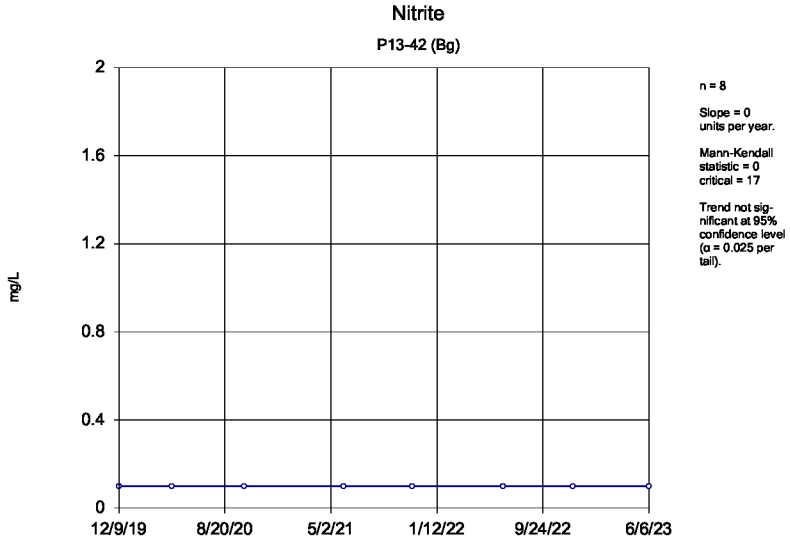
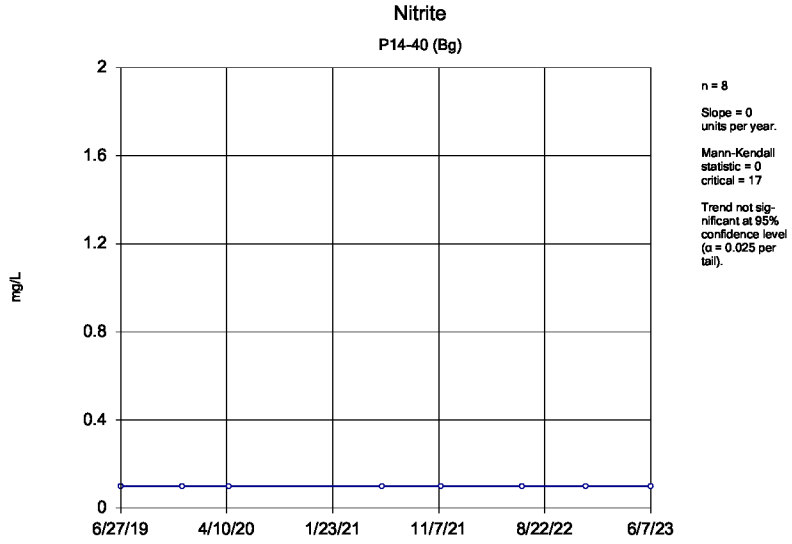


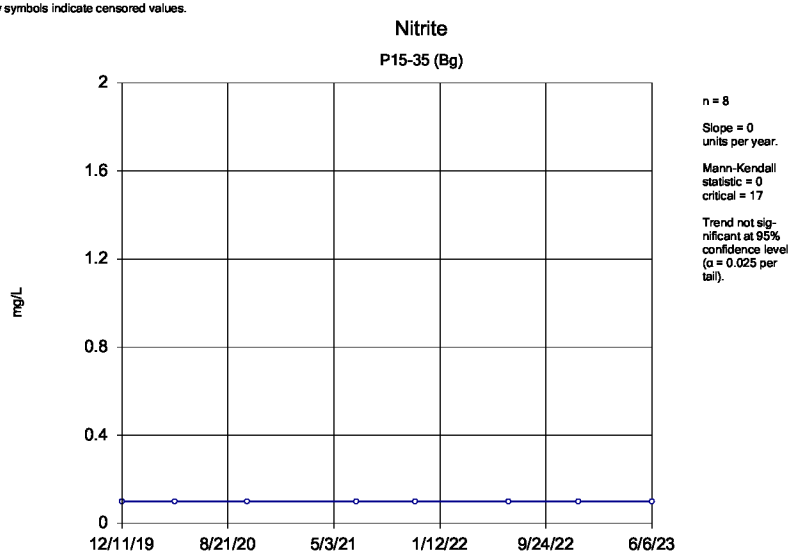
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



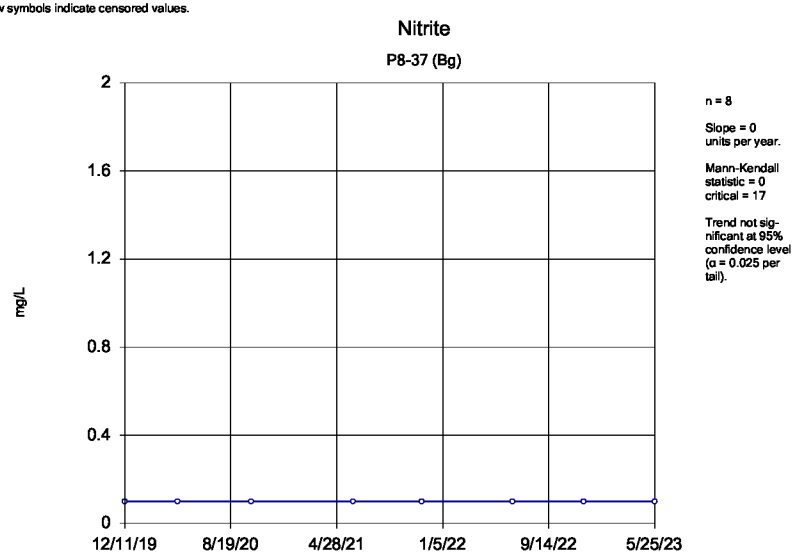
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



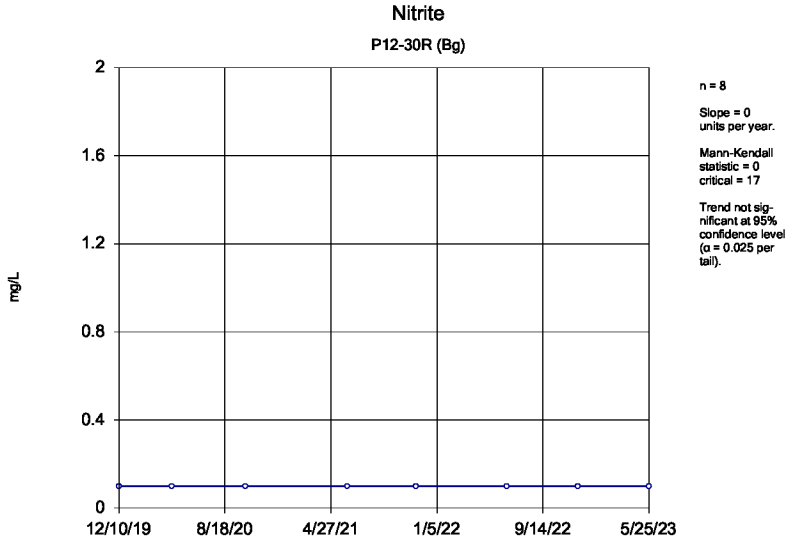
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



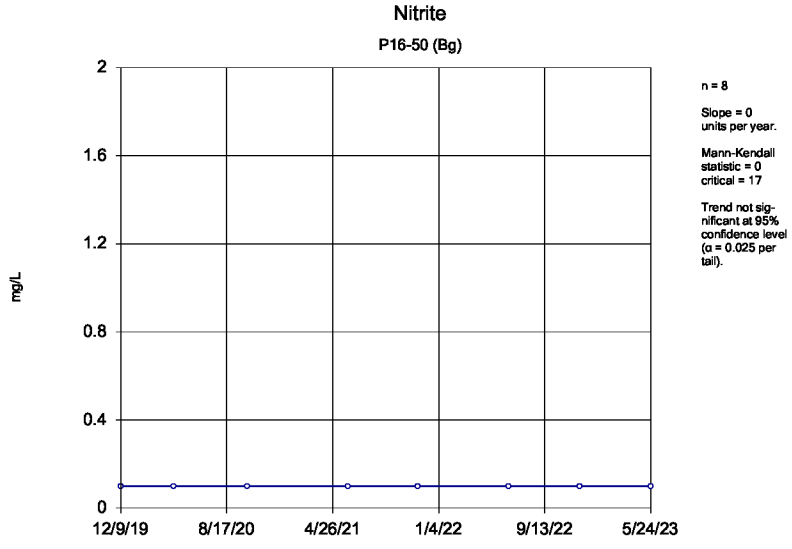
Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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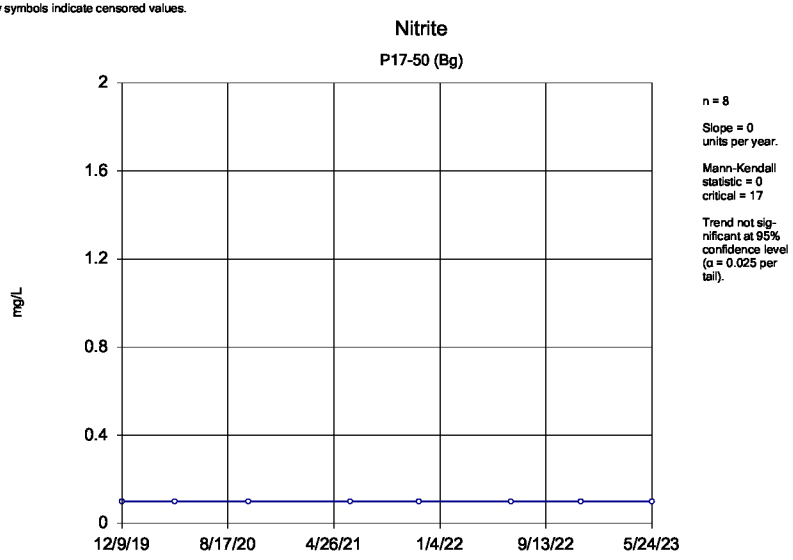

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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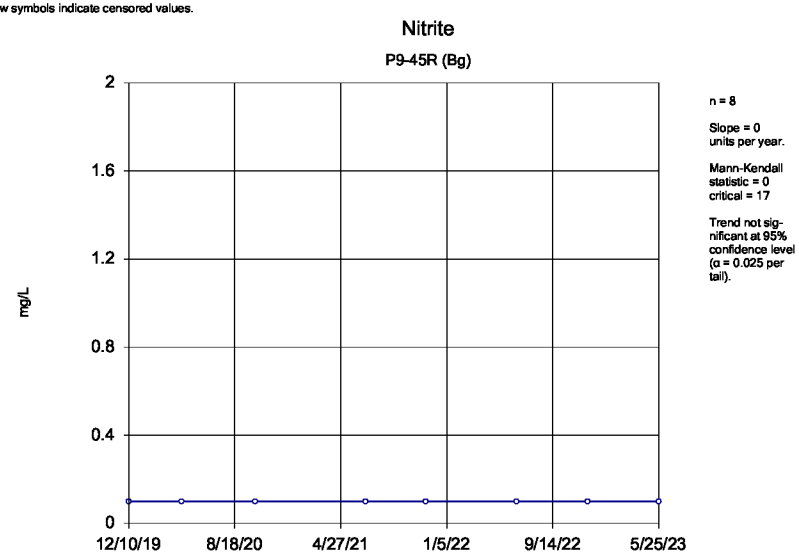

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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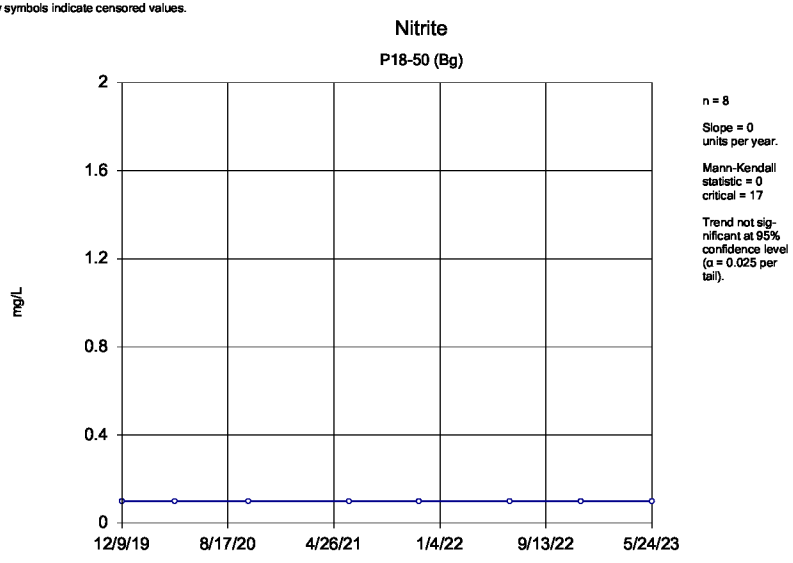

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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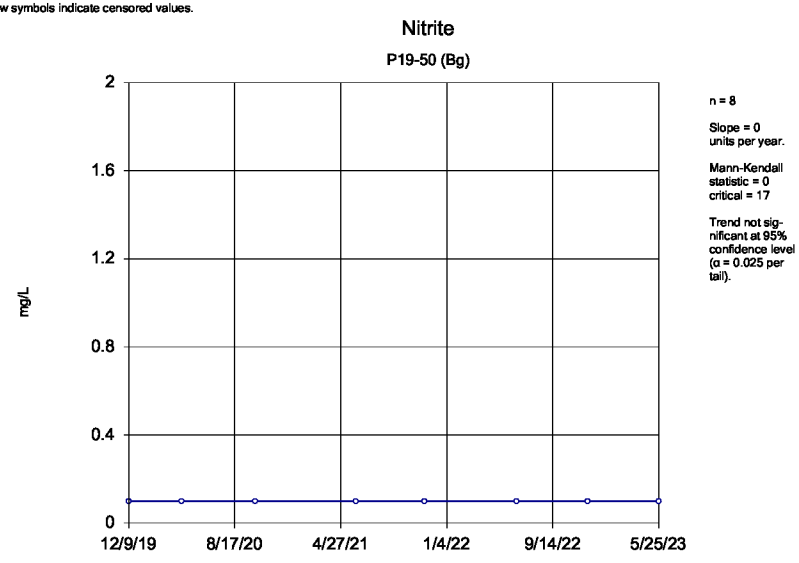
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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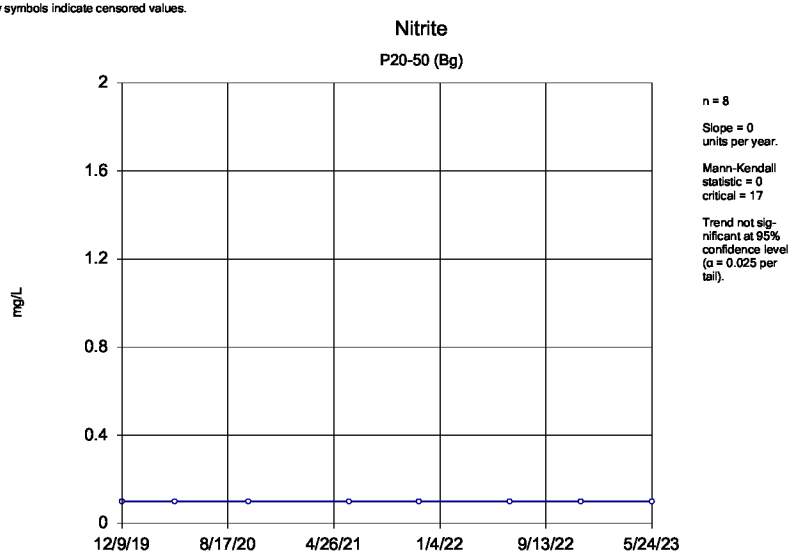

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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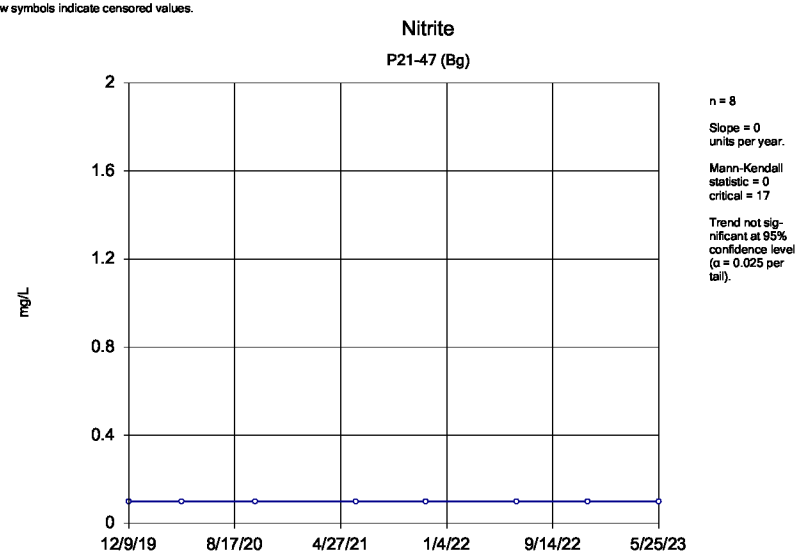

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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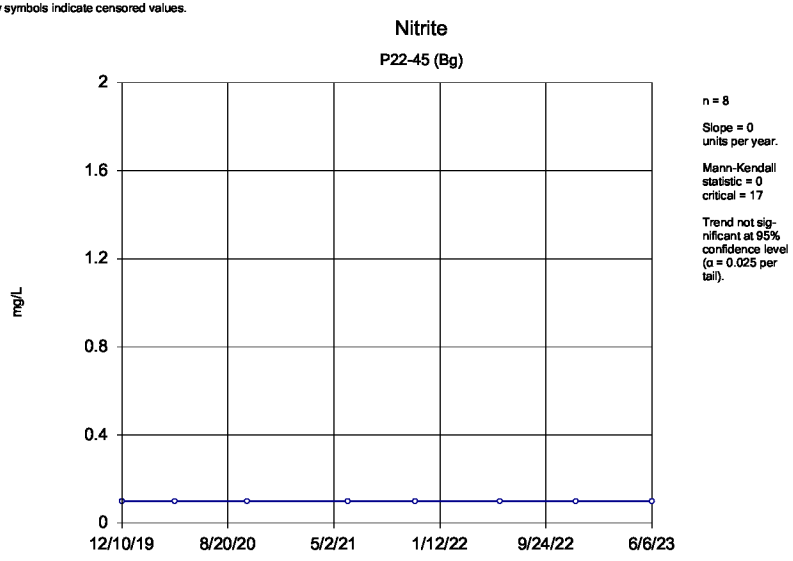

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
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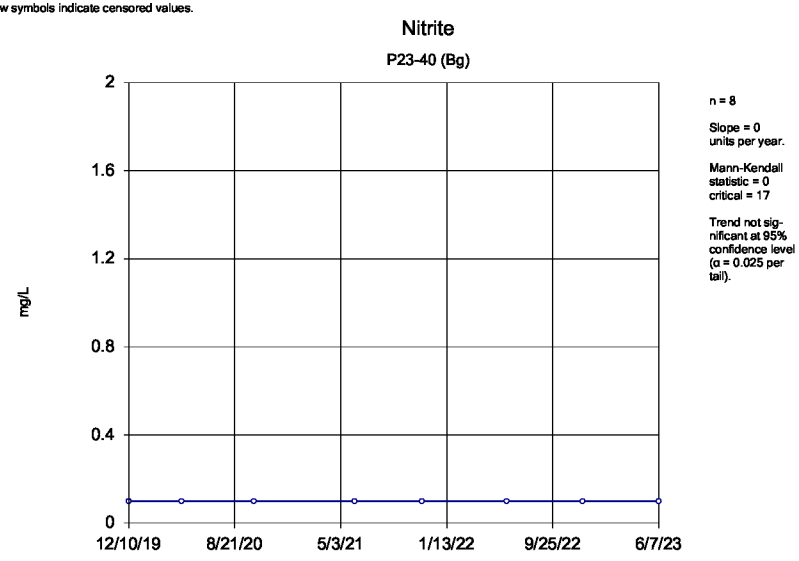

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM
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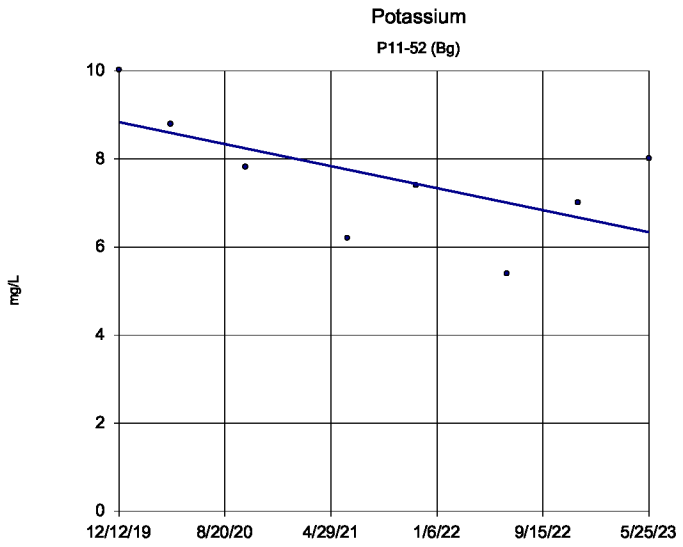
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



n = 8

Slope = -0.7246 units per year.

Mann-Kendall statistic = -12 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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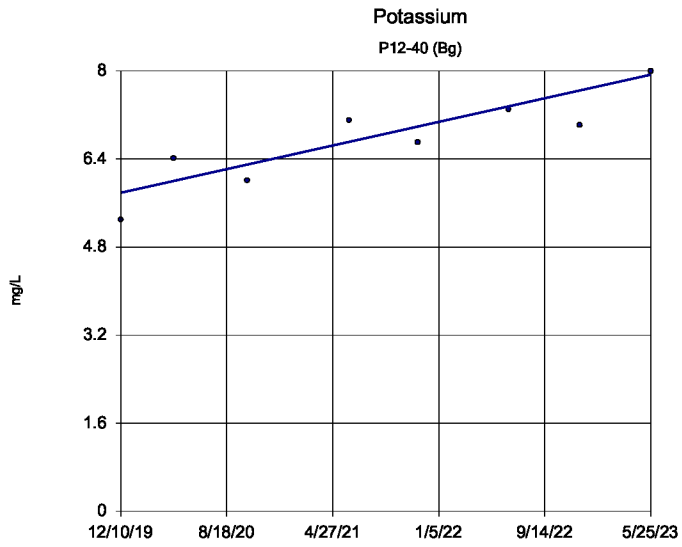

n = 8

Slope = 0.6203 units per year.

Mann-Kendall statistic = 20 critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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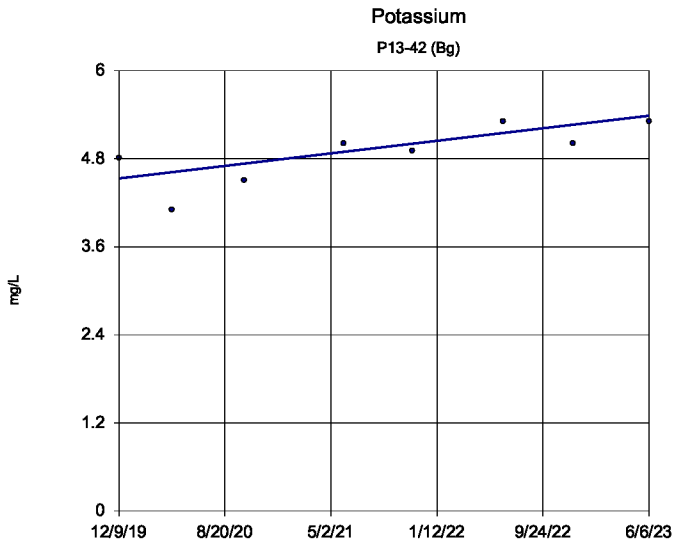

n = 8

Slope = 0.2441 units per year.

Mann-Kendall statistic = 18 critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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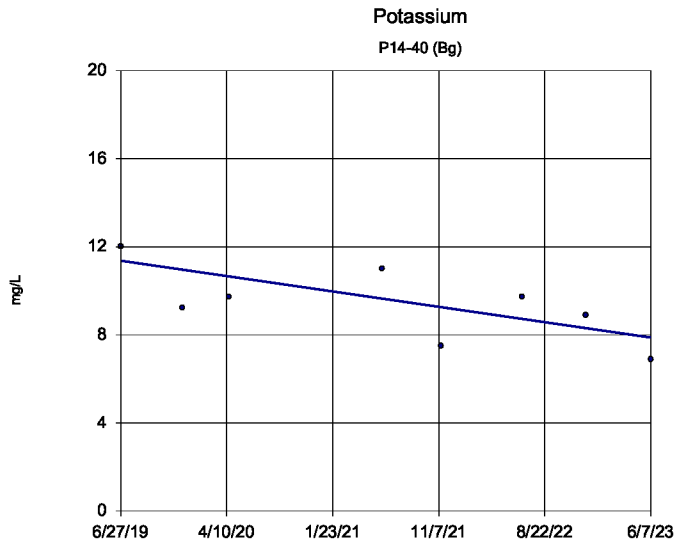

n = 8

Slope = -0.885 units per year.

Mann-Kendall statistic = -15 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:47 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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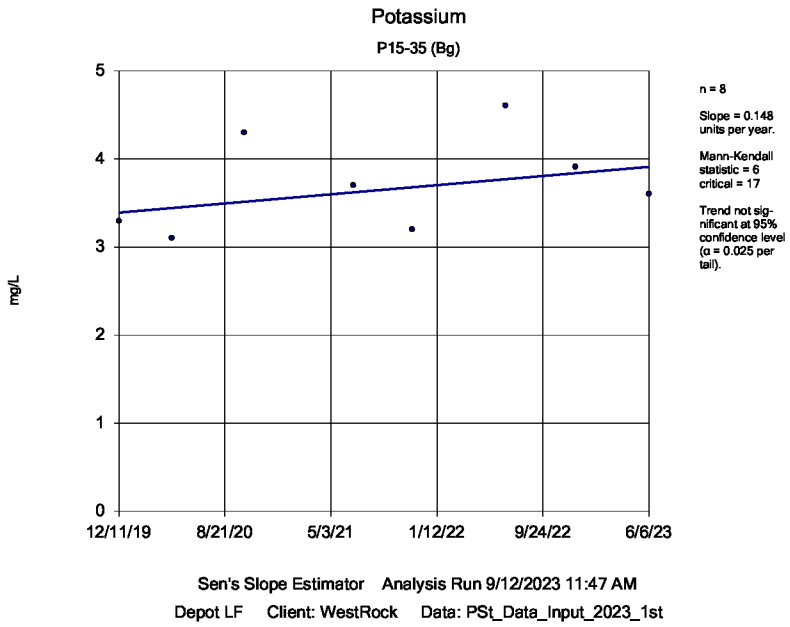
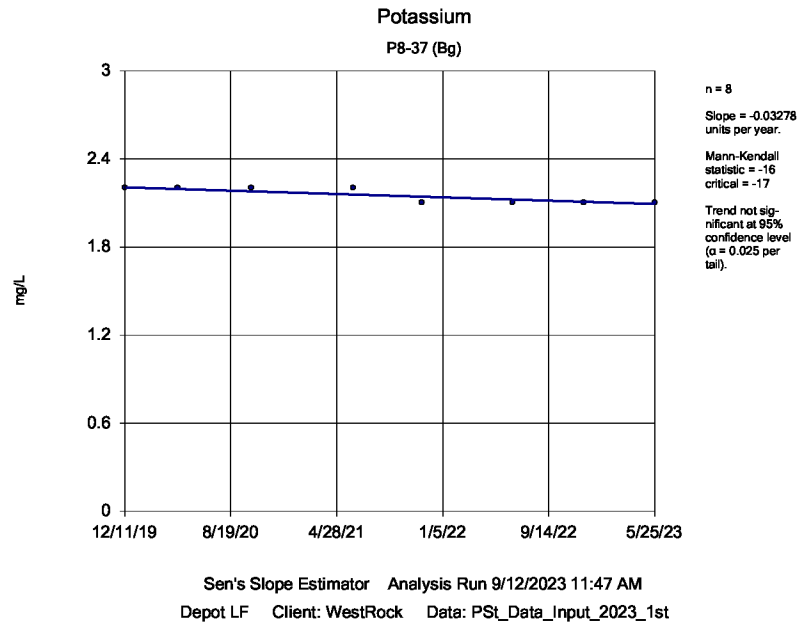
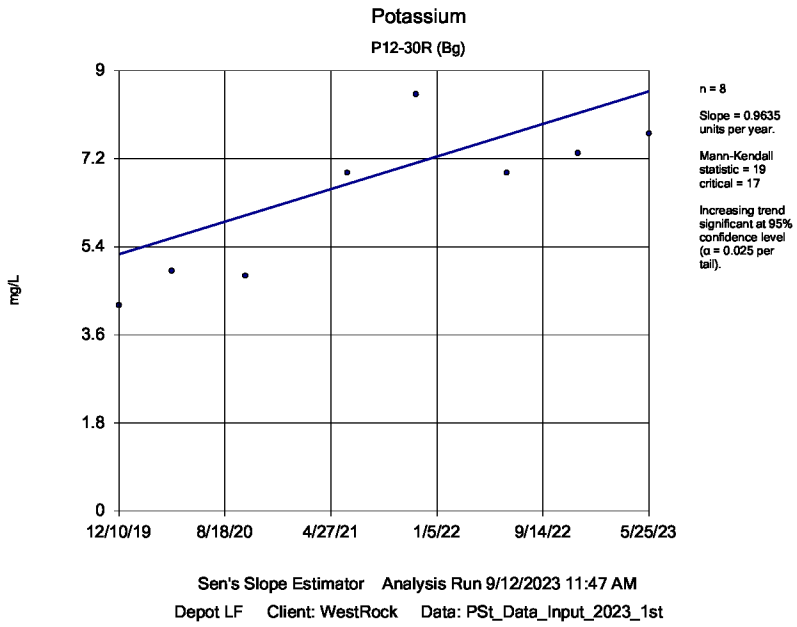


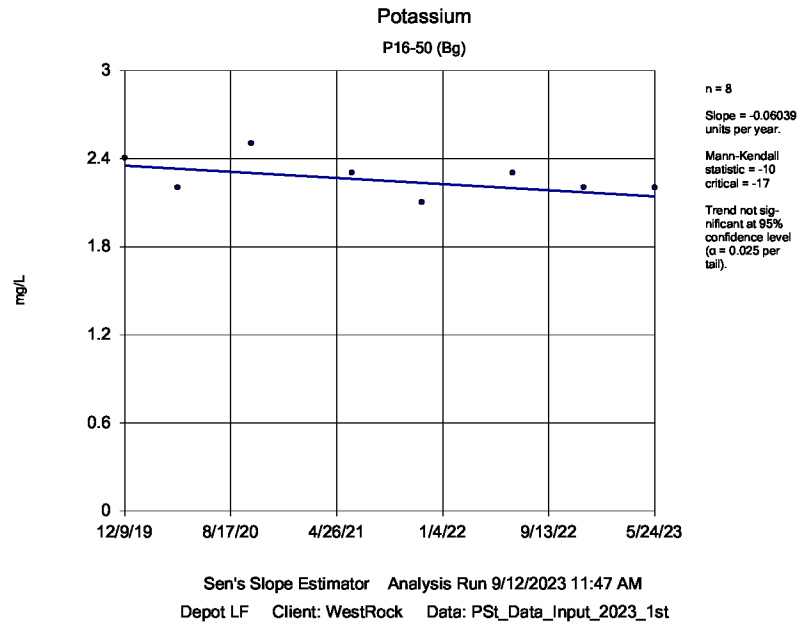
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



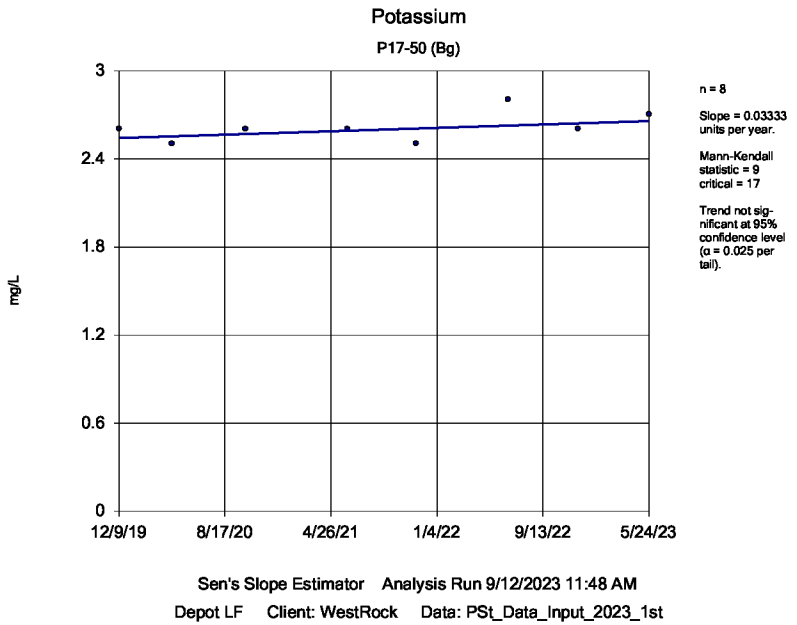
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



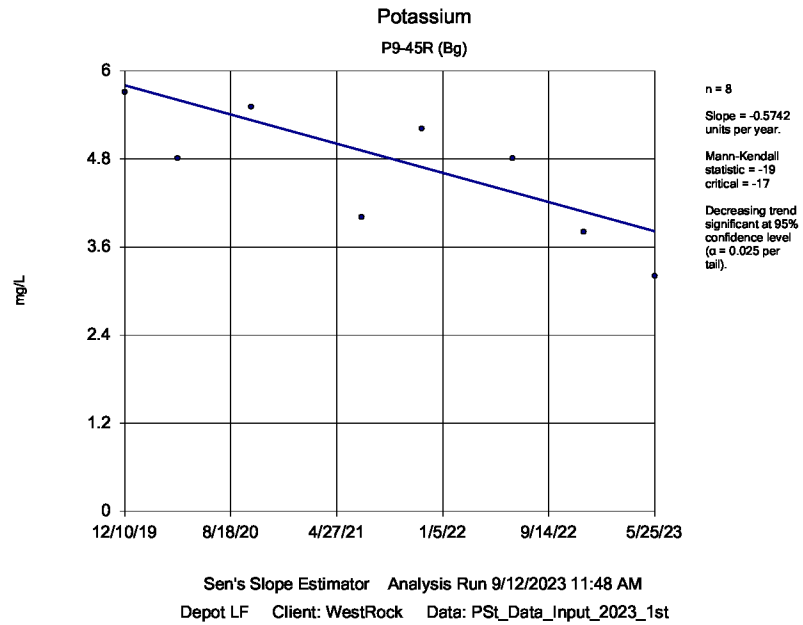
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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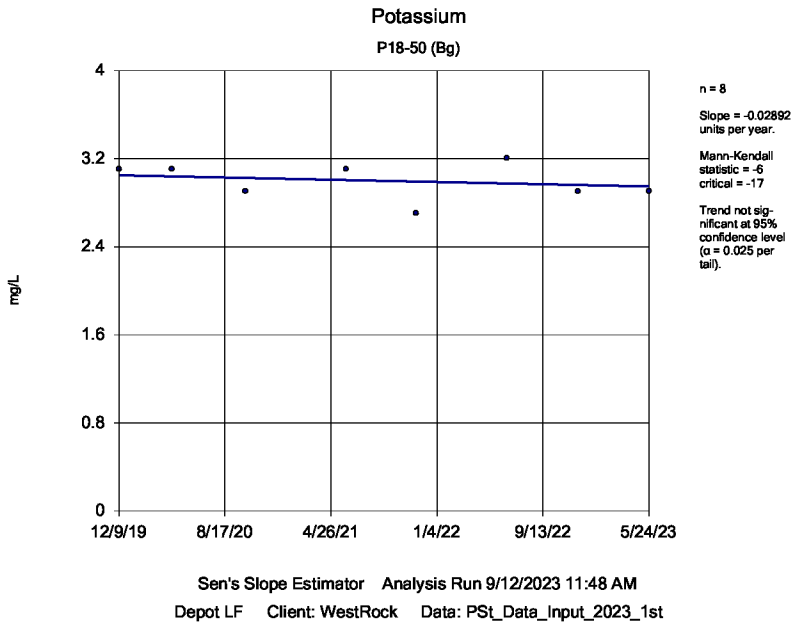
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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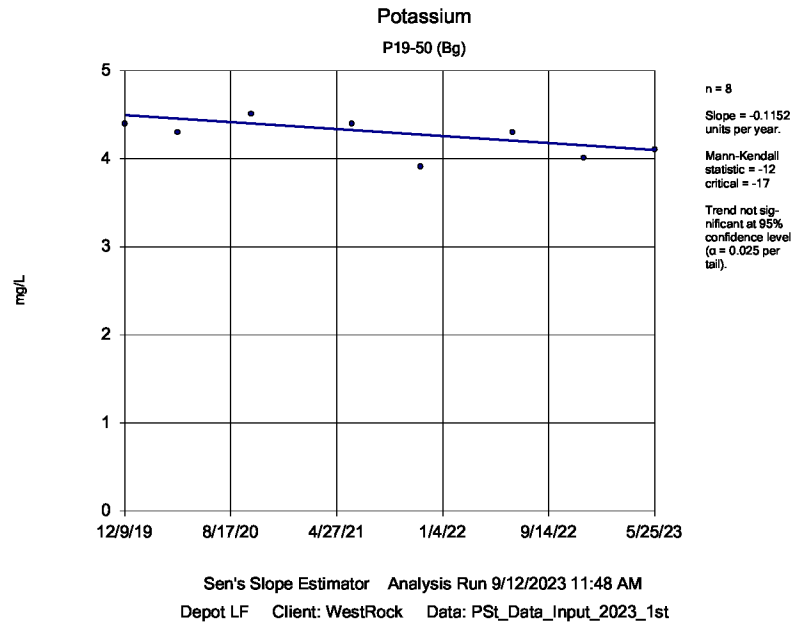
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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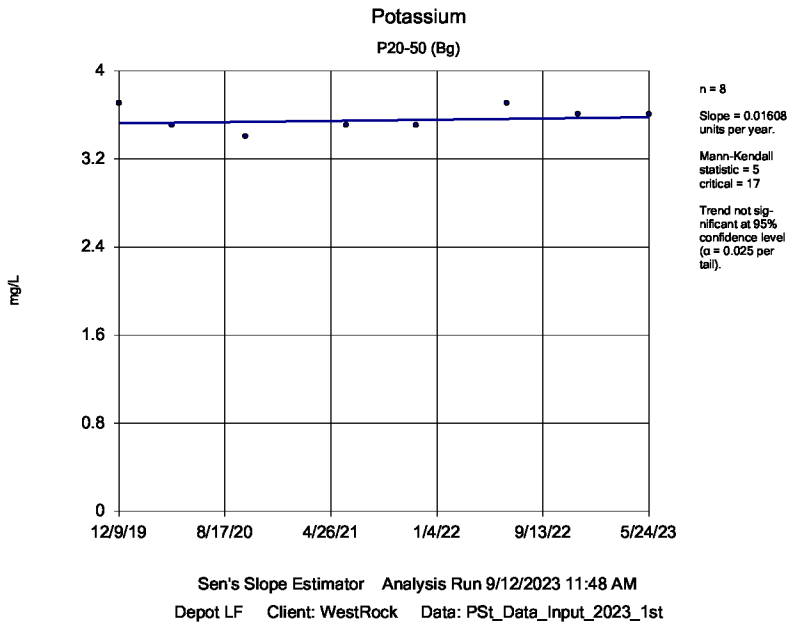

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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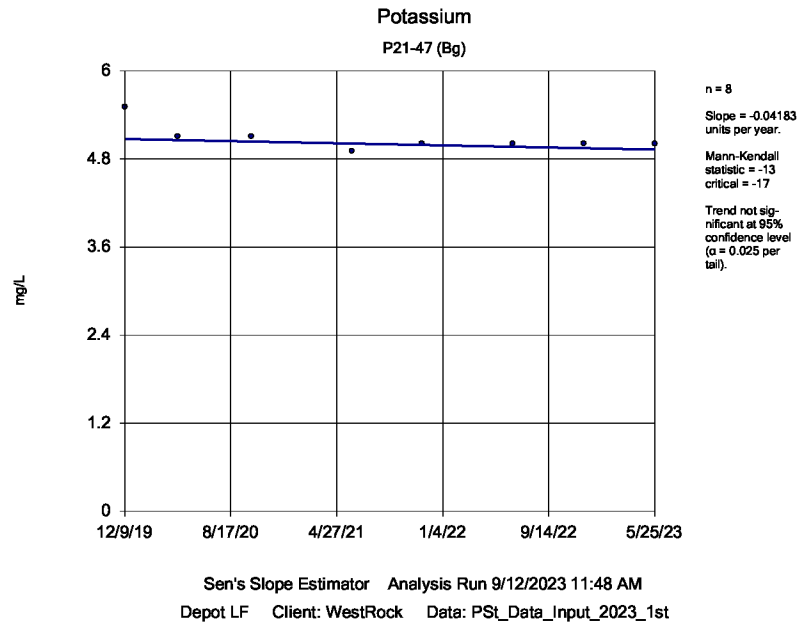

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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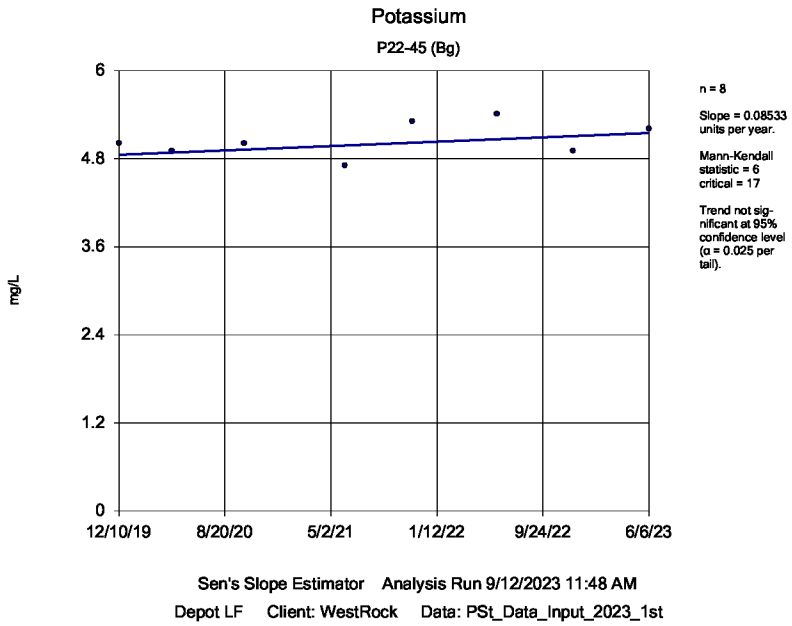
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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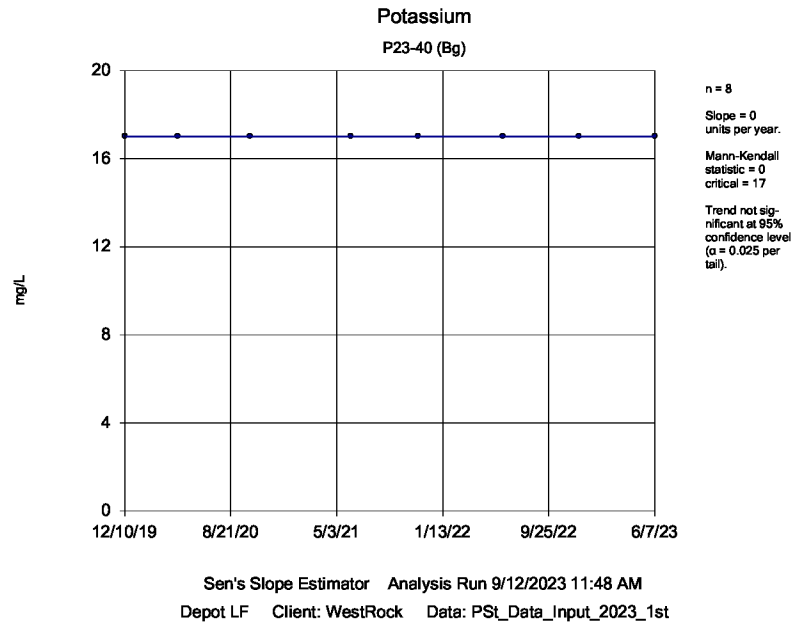

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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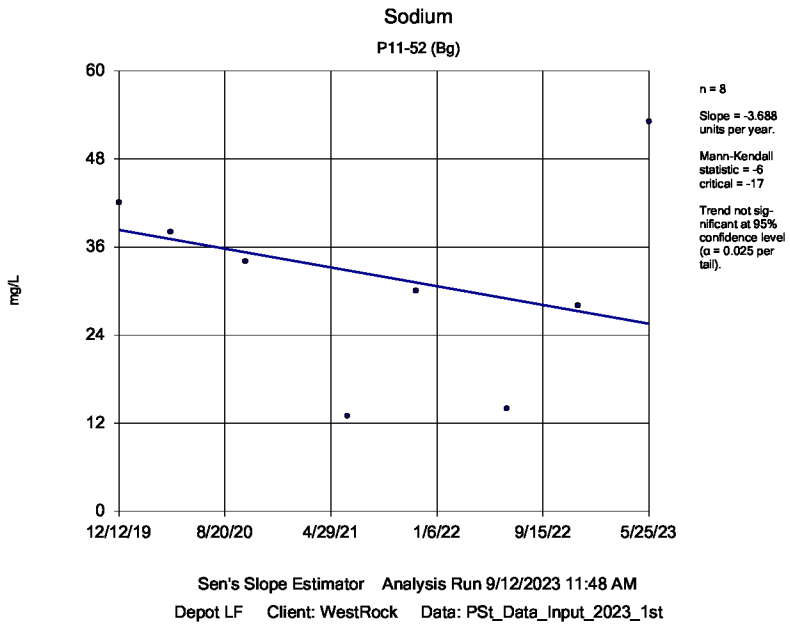

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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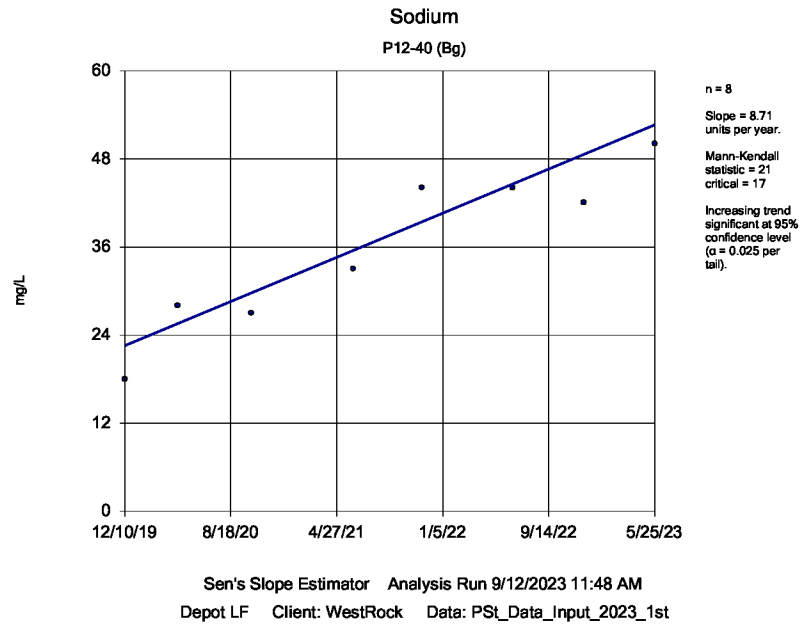

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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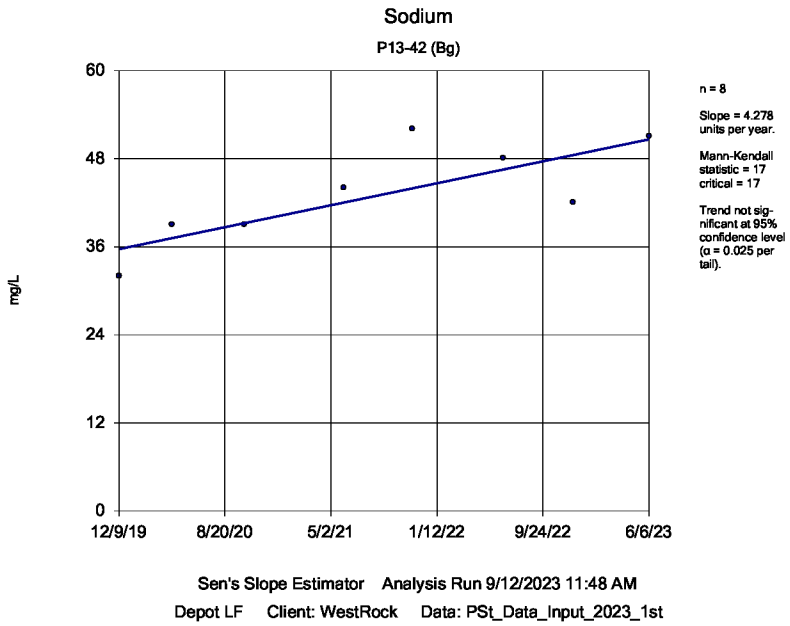

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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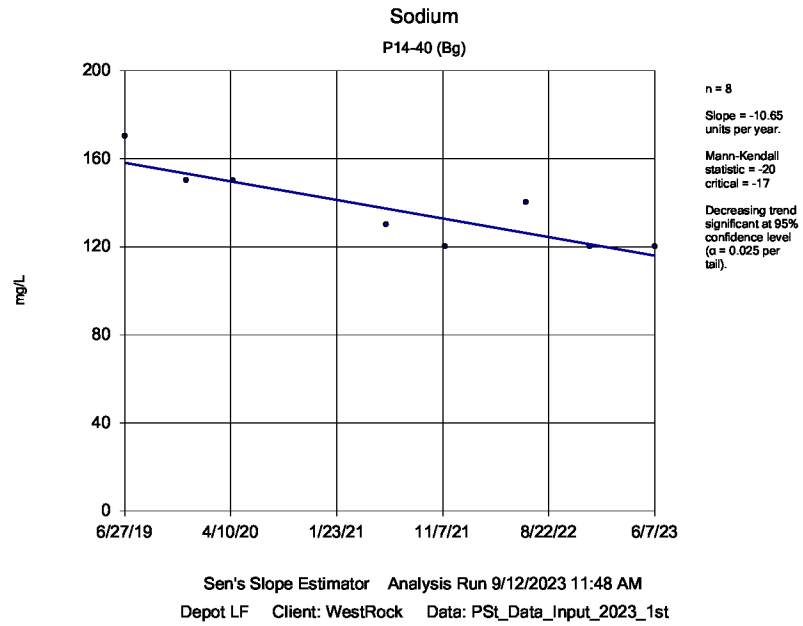

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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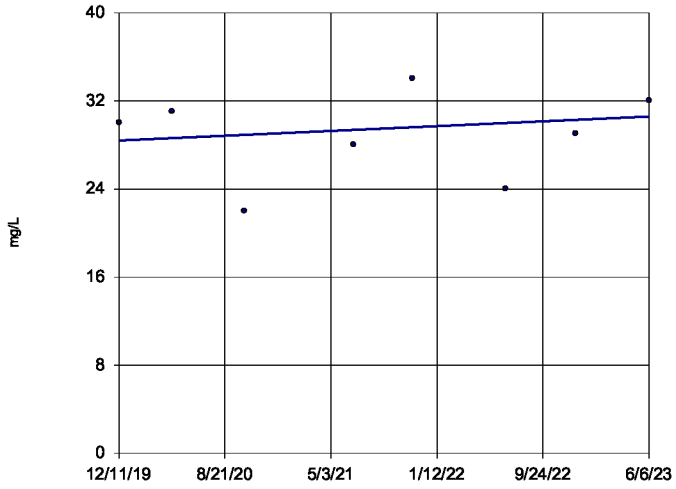
Sodium

P15-35 (Bg)



n = 8

Slope = 0.6285 units per year.

Mann-Kendall statistic = 4 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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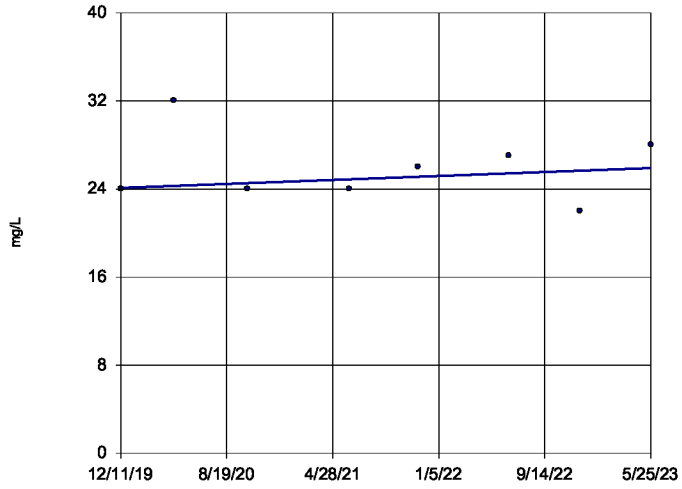
Sodium

P8-37 (Bg)



n = 8

Slope = 0.5163 units per year.

Mann-Kendall statistic = 3 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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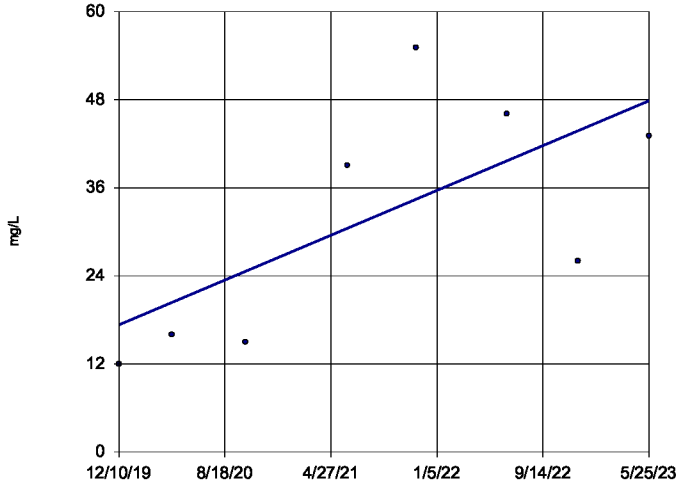
Sodium

P12-30R (Bg)



n = 8

Slope = 8.824 units per year.

Mann-Kendall statistic = 14 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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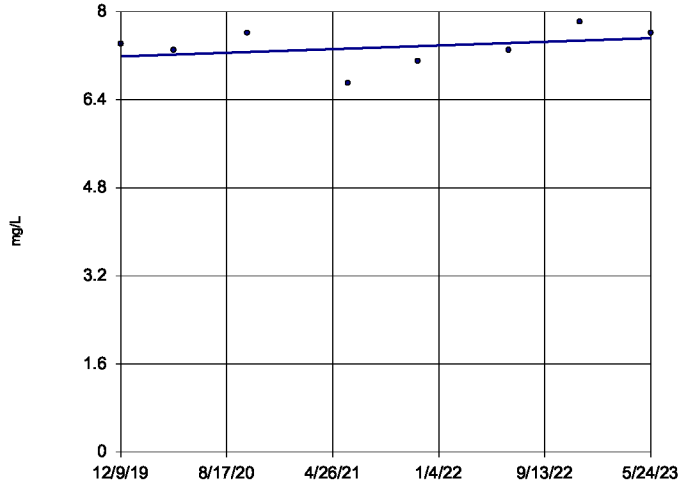
Sodium

P16-50 (Bg)



n = 8

Slope = 0.09432 units per year.

Mann-Kendall statistic = 6 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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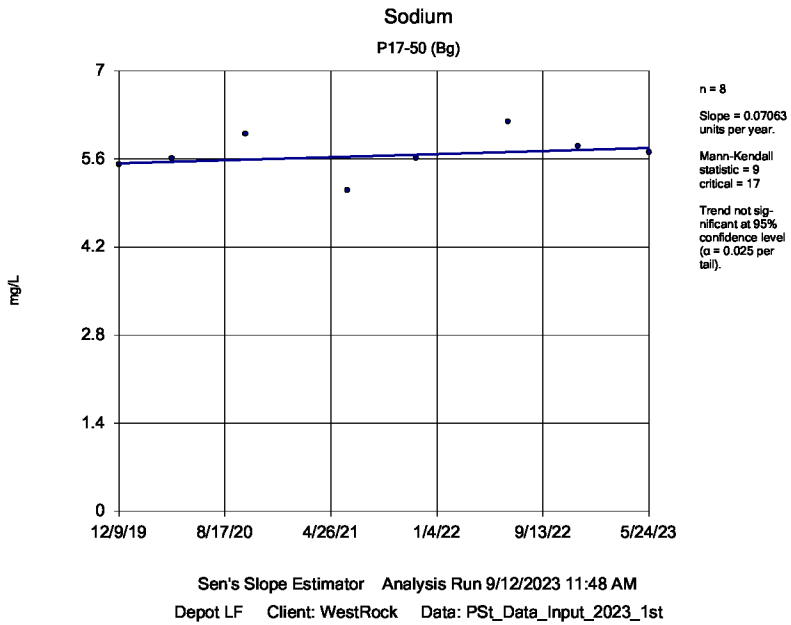

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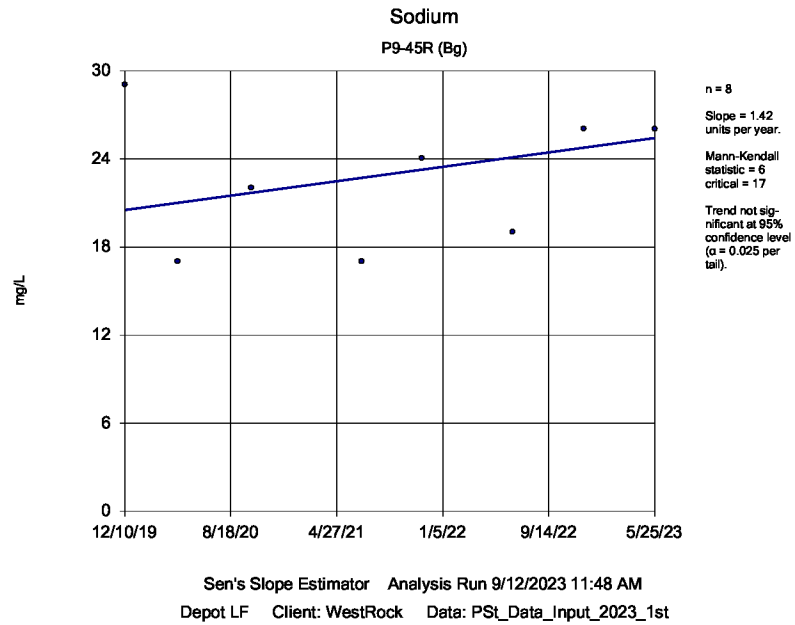

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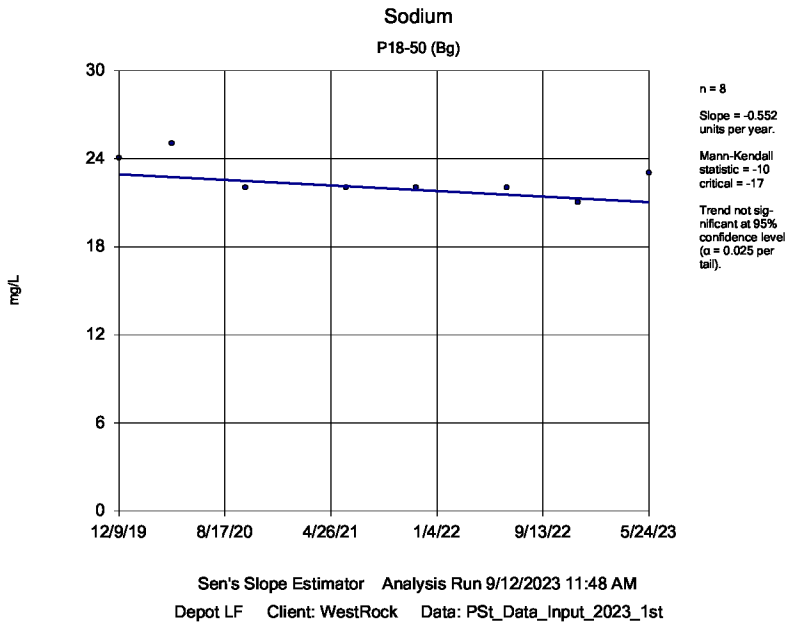
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

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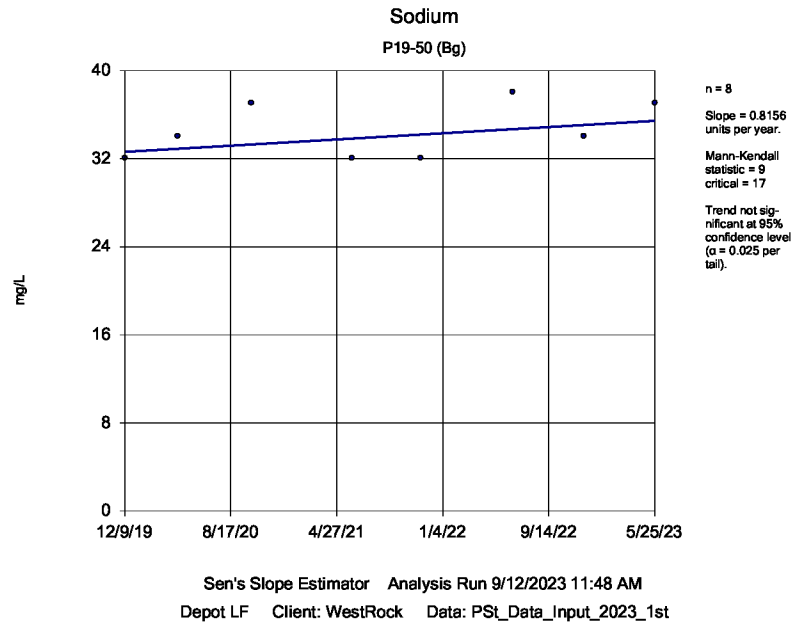
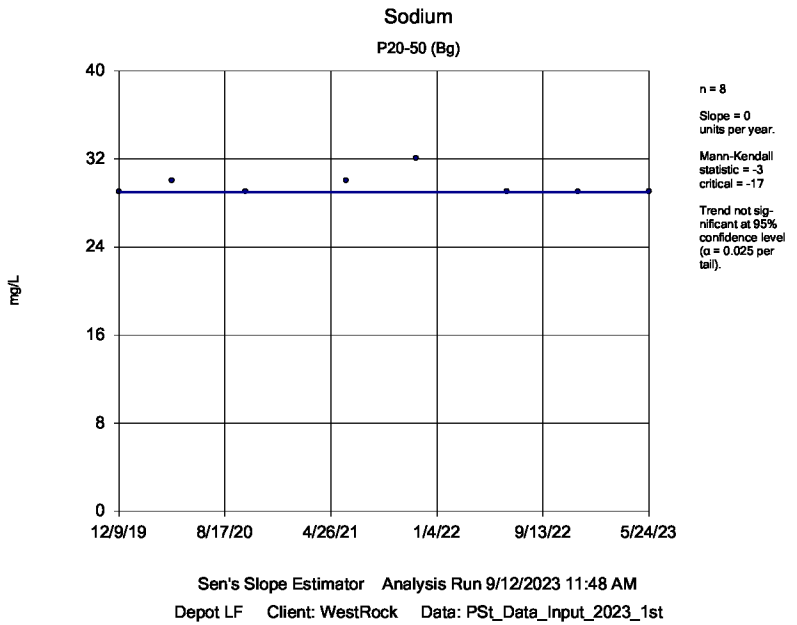


Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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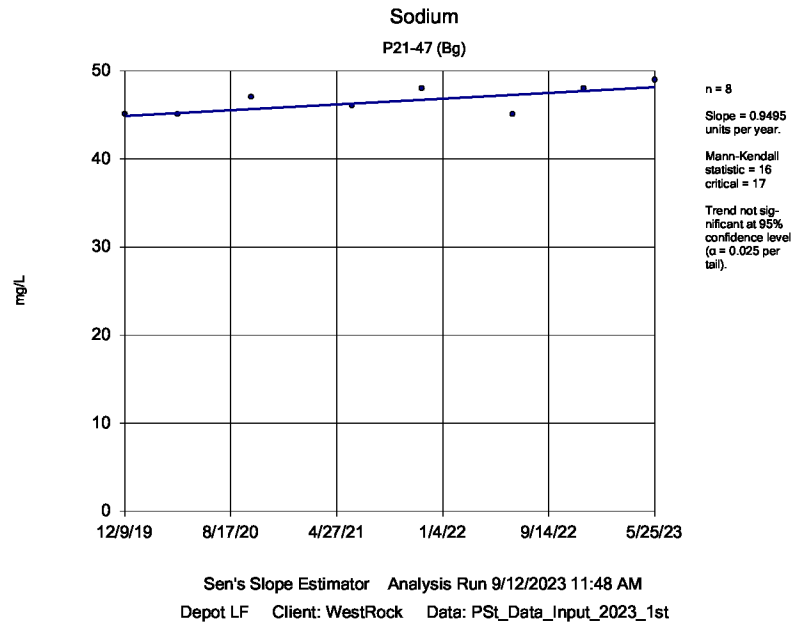

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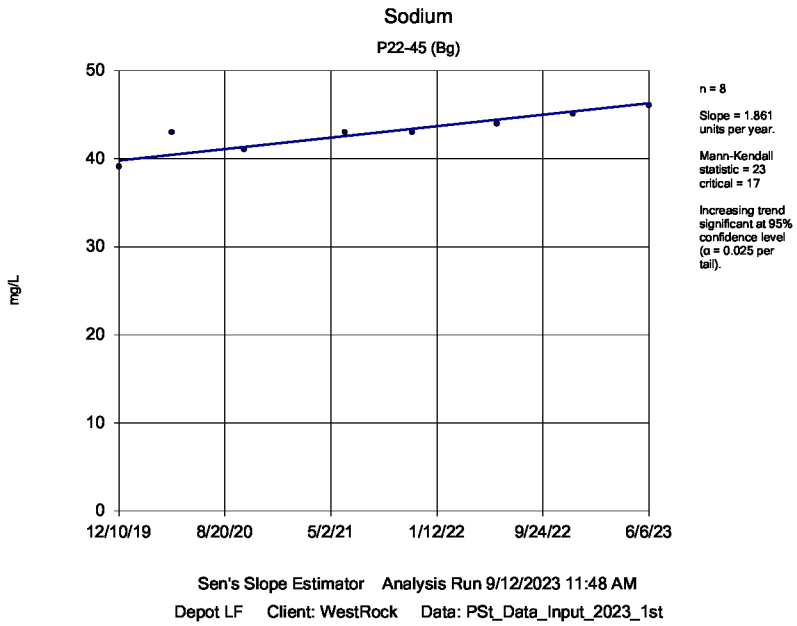
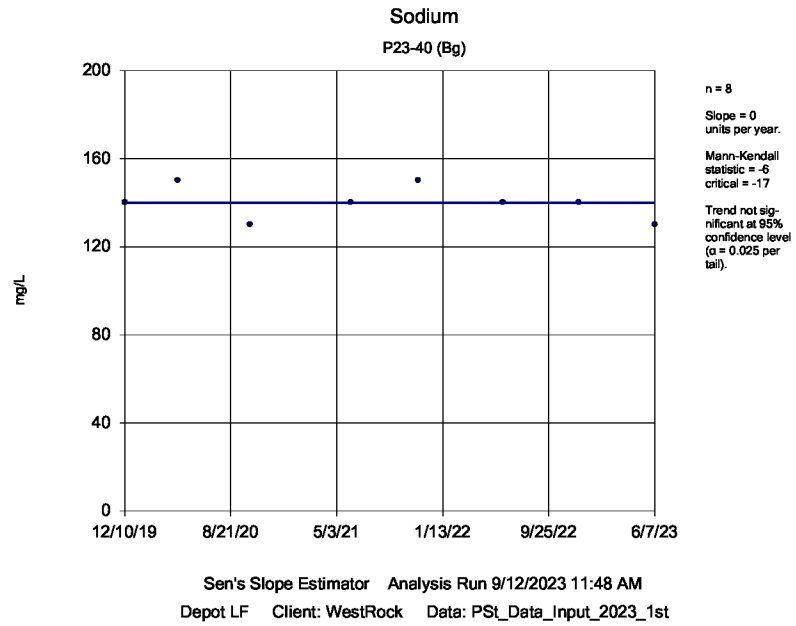
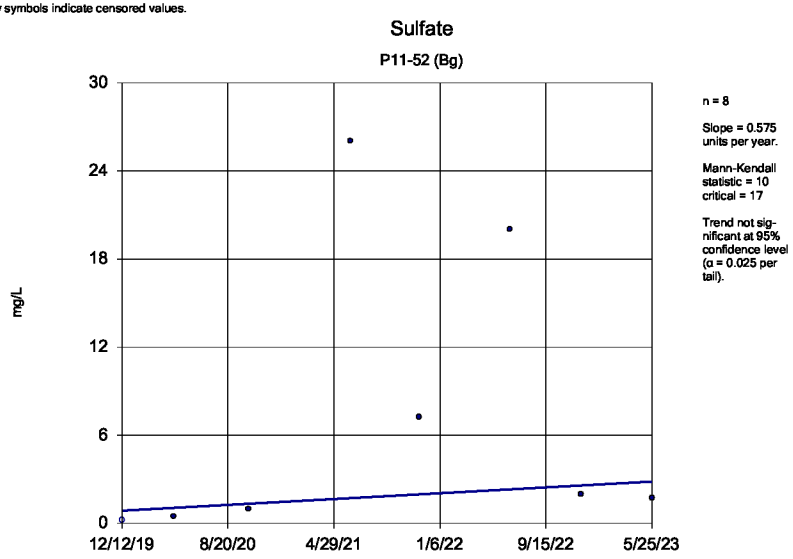


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

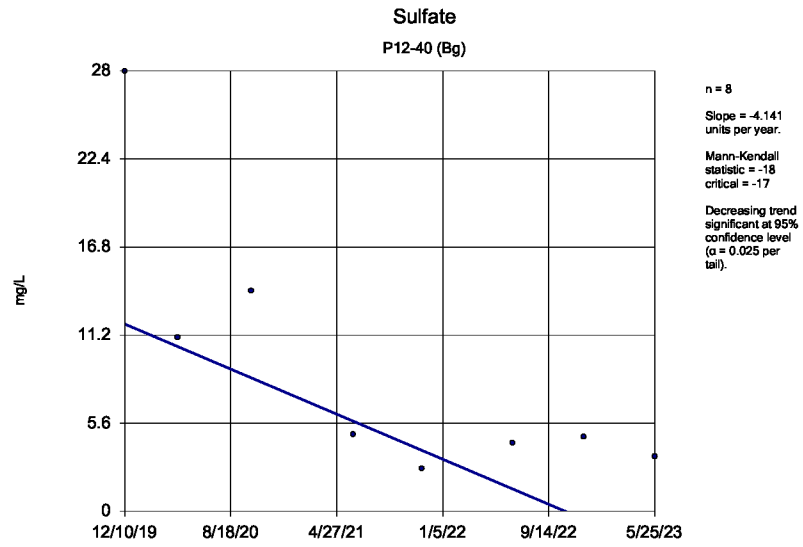


Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
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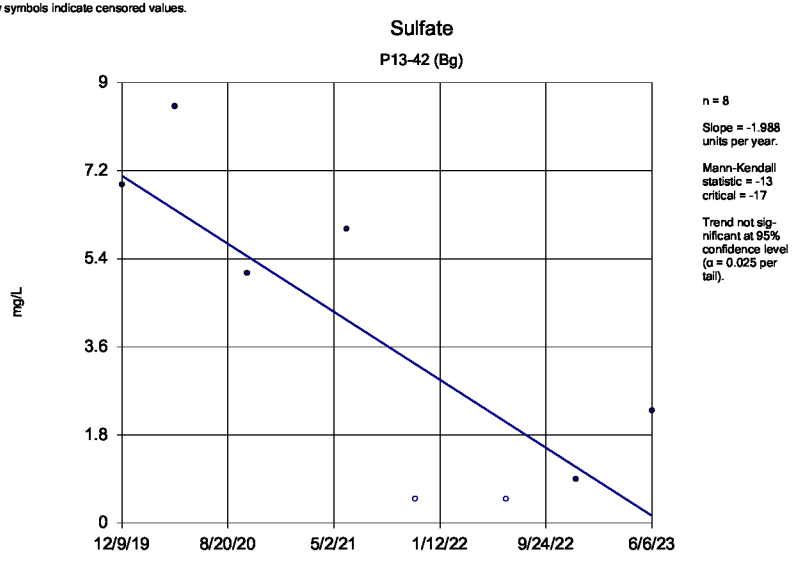
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA
Hollow symbols indicate censored values.



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
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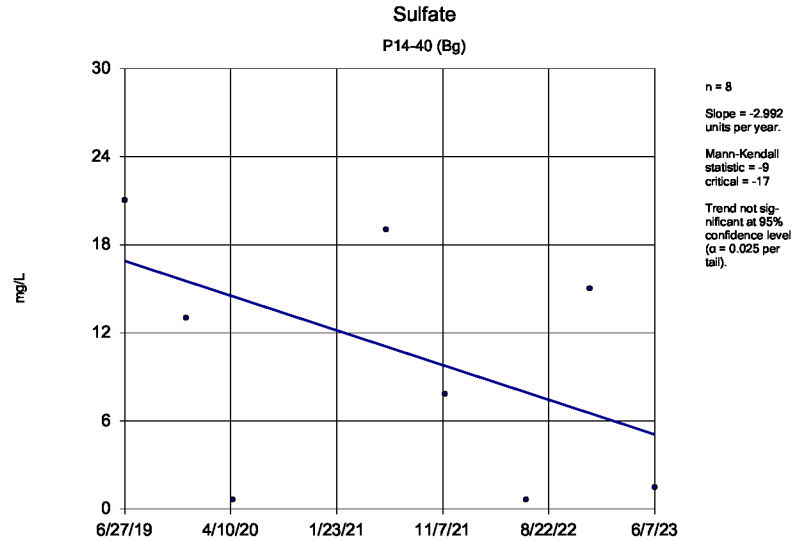
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
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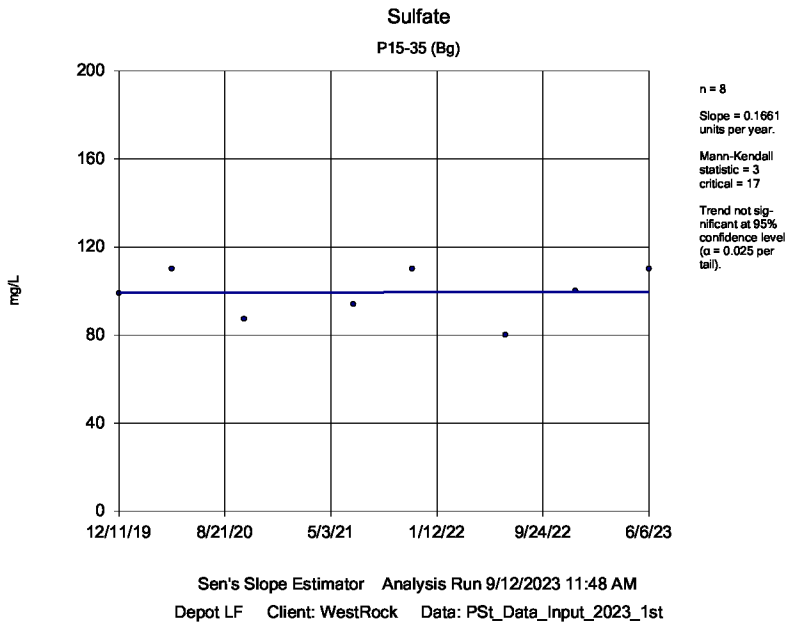
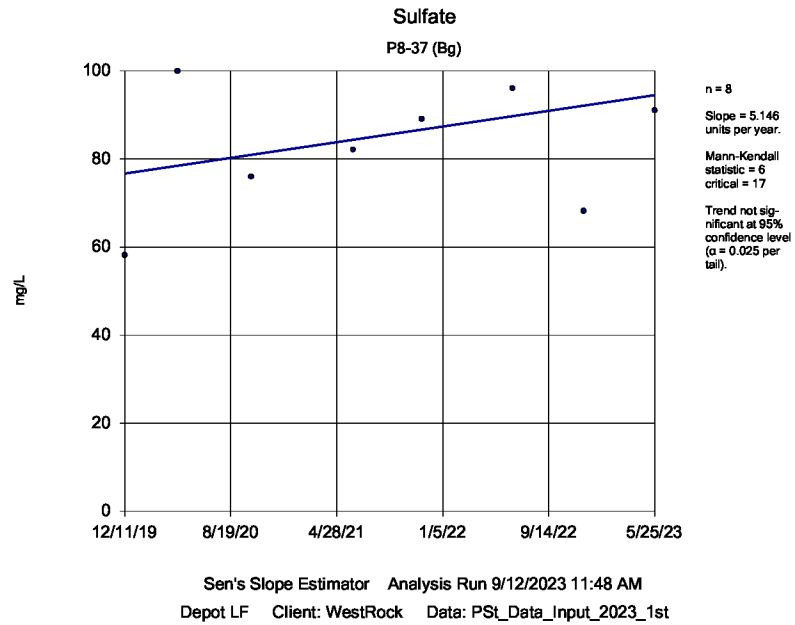
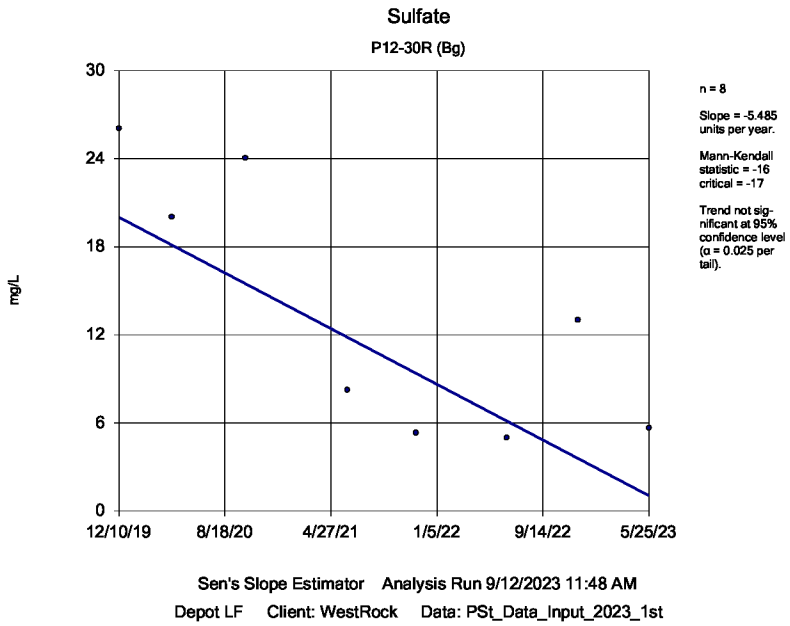
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



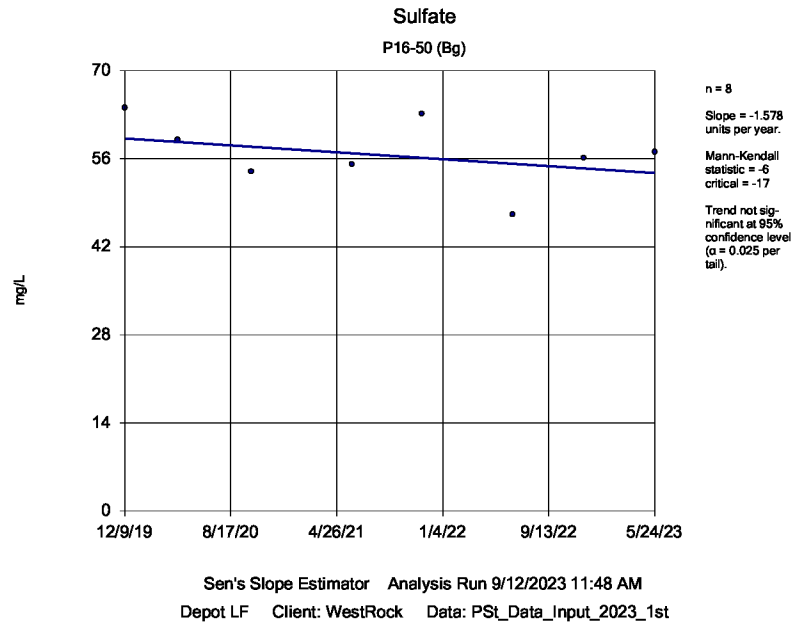
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



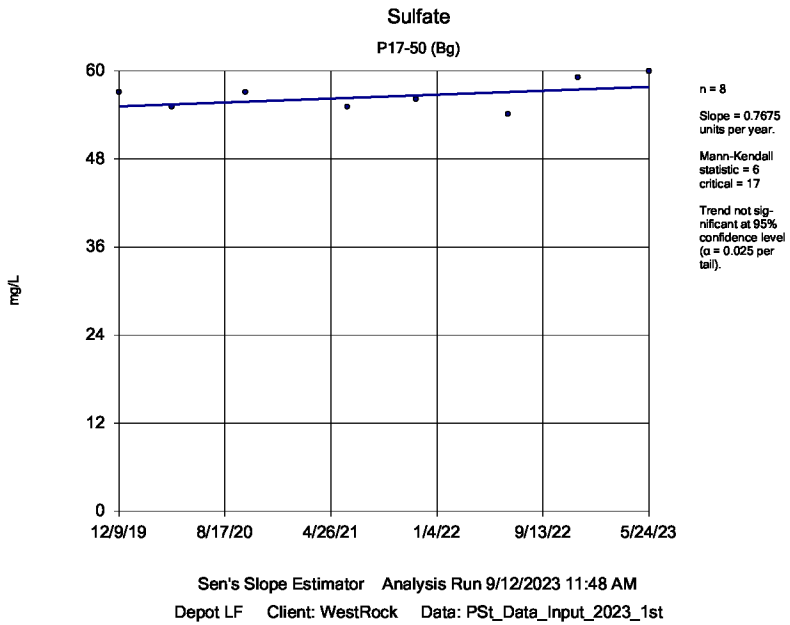
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



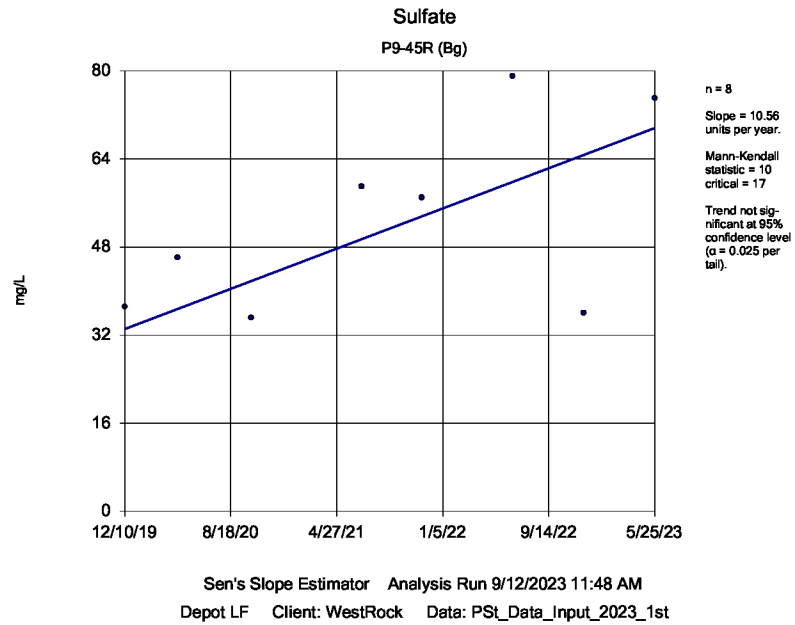
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

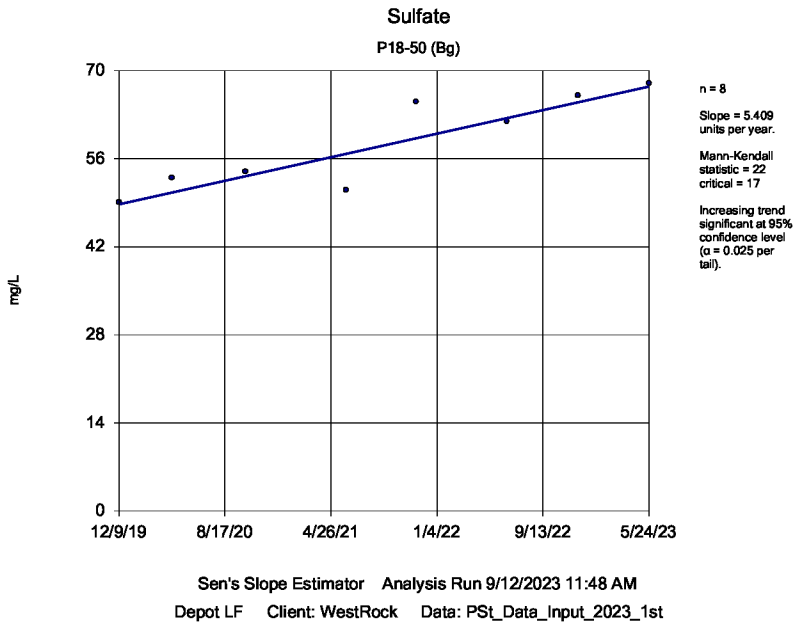
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

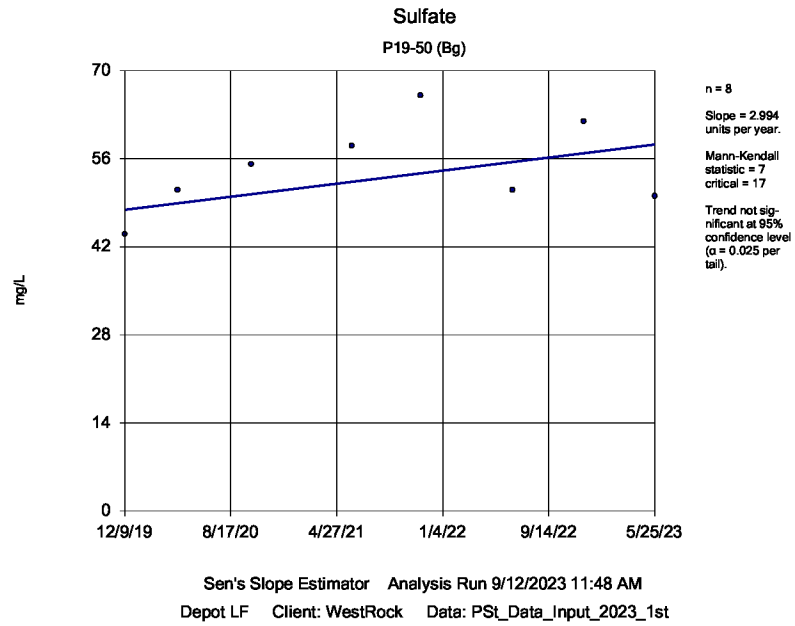
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



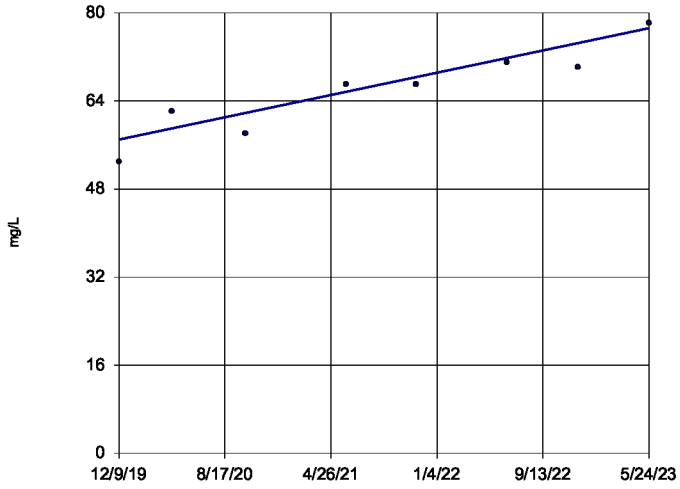
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Sulfate

P20-50 (Bg)



n = 8

Slope = 5.857 units per year.

Mann-Kendall statistic = 23 critical = 17

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

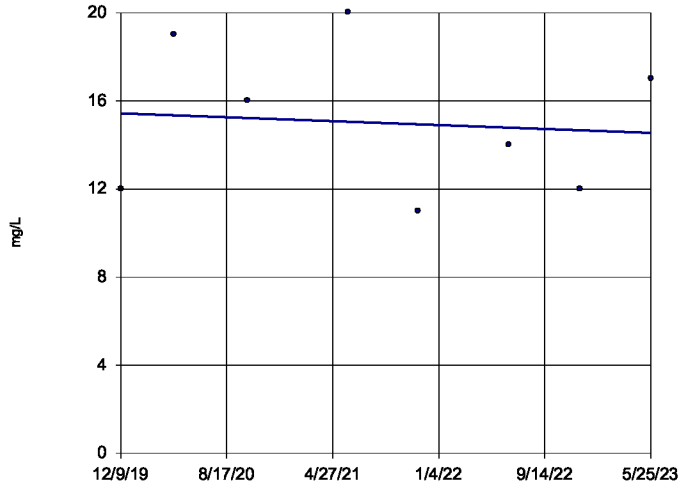
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Sulfate

P21-47 (Bg)



n = 8

Slope = -0.2578 units per year.

Mann-Kendall statistic = -1 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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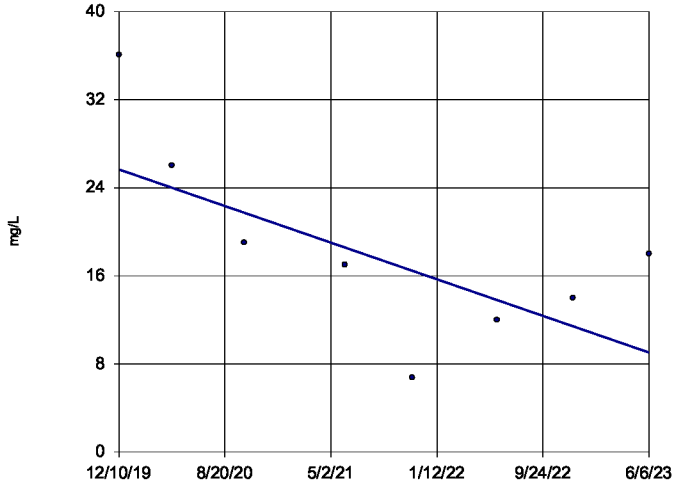
Sulfate

P22-45 (Bg)



n = 8

Slope = -4.767 units per year.

Mann-Kendall statistic = -14 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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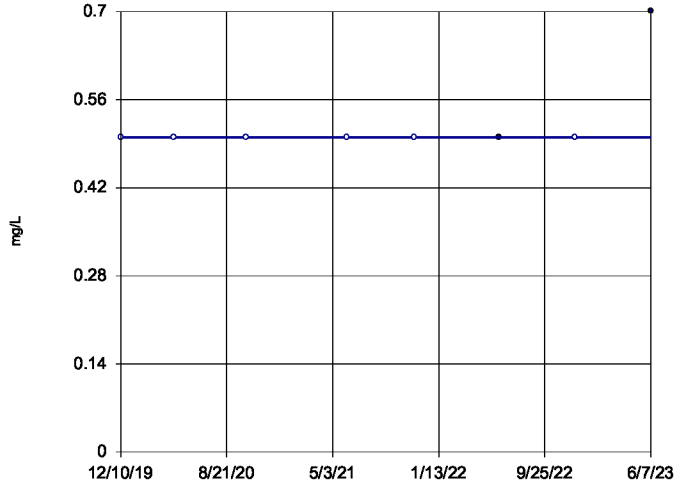
Hollow symbols indicate censored values.

Sulfate

P23-40 (Bg)



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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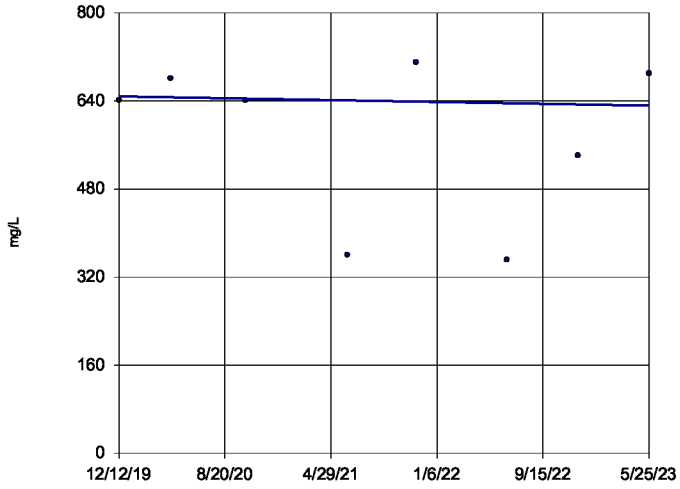
Total Dissolved Solids

P11-52 (Bg)



n = 8

Slope = -4.815 units per year.

Mann-Kendall statistic = -1 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

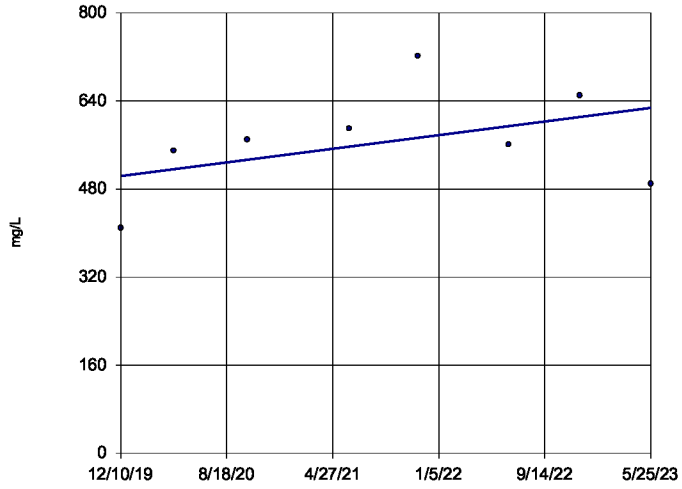
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Total Dissolved Solids

P12-40 (Bg)



n = 8

Slope = 35.86 units per year.

Mann-Kendall statistic = 8 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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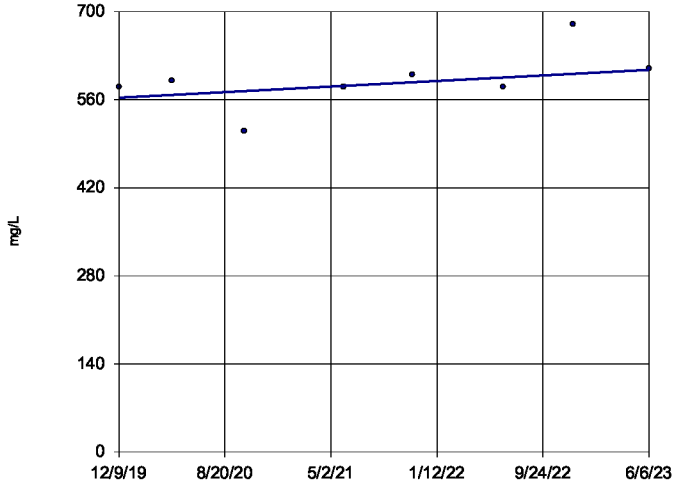
Total Dissolved Solids

P13-42 (Bg)



n = 8

Slope = 12.61 units per year.

Mann-Kendall statistic = 13 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

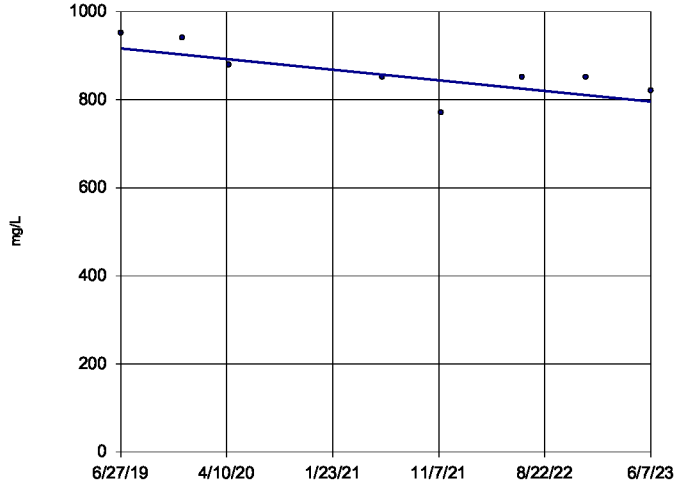
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

Total Dissolved Solids

P14-40 (Bg)



n = 8

Slope = -30.65 units per year.

Mann-Kendall statistic = -19 critical = -17

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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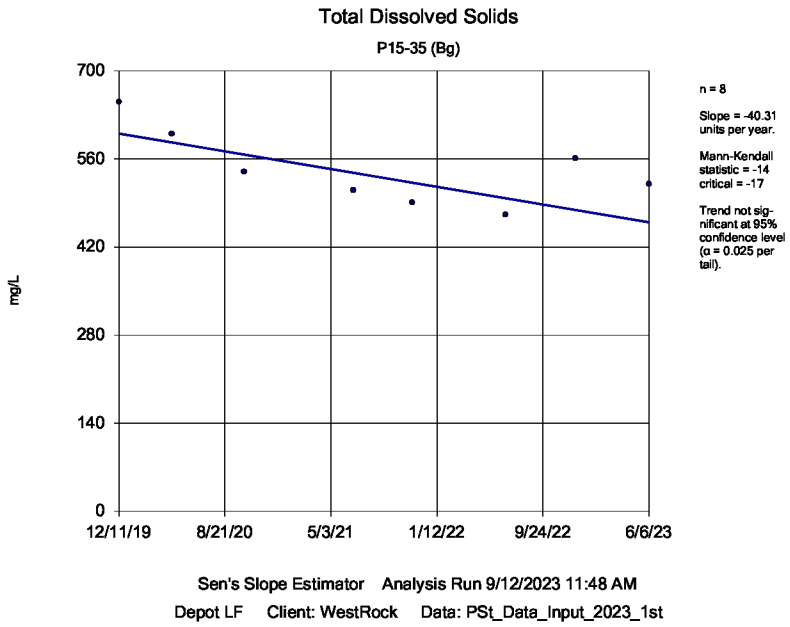
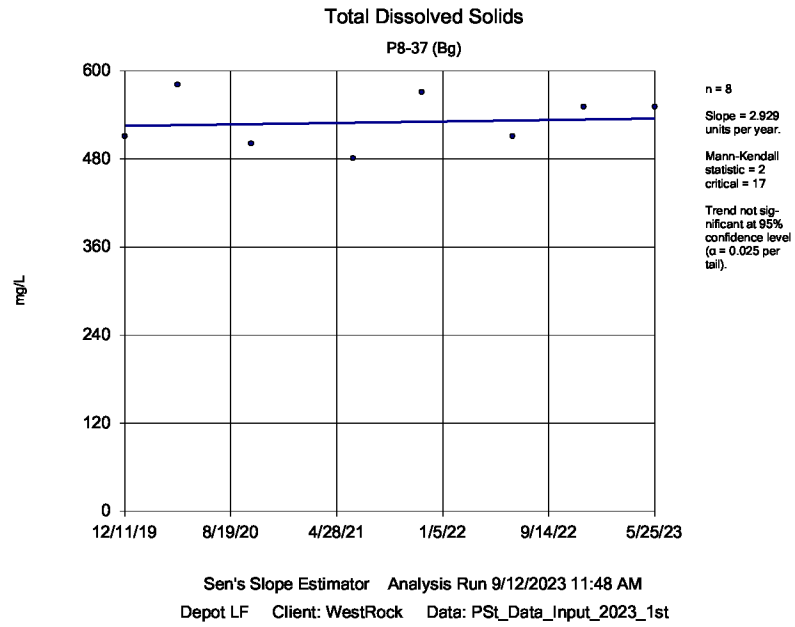
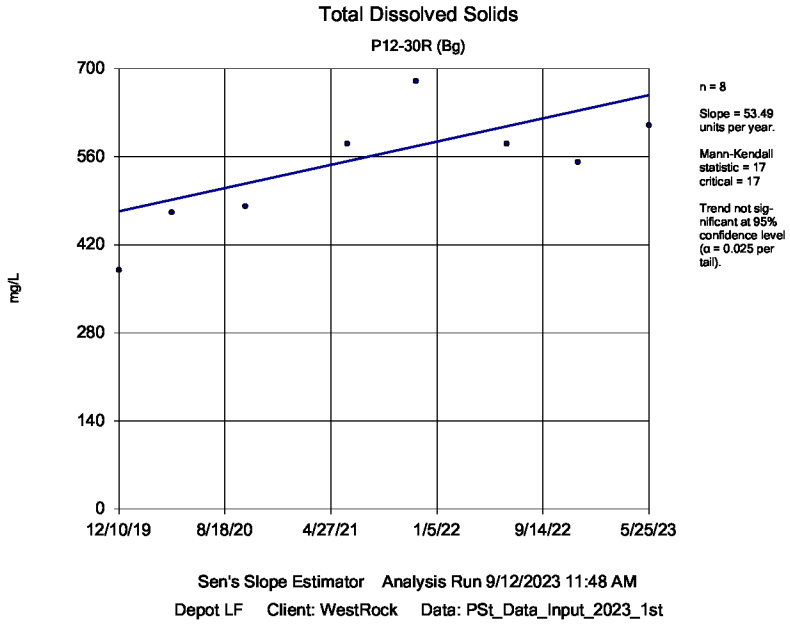


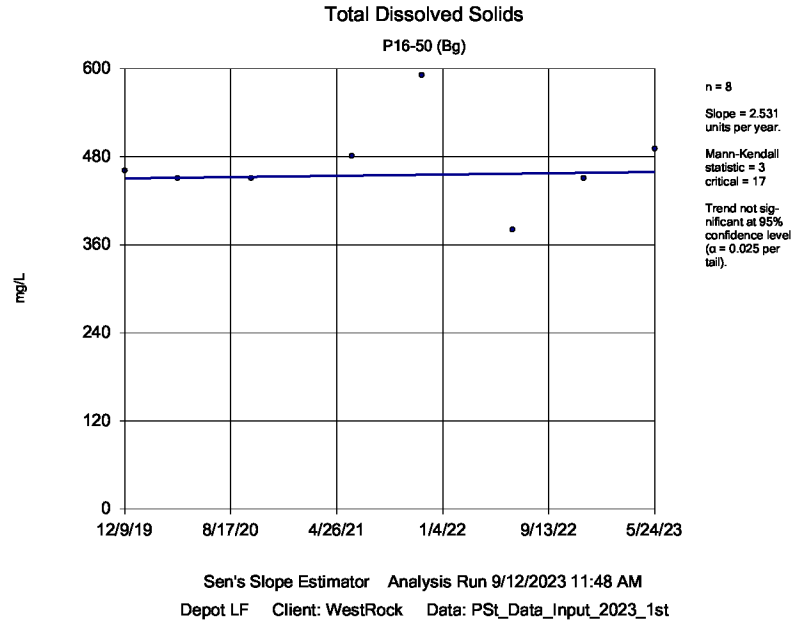
Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



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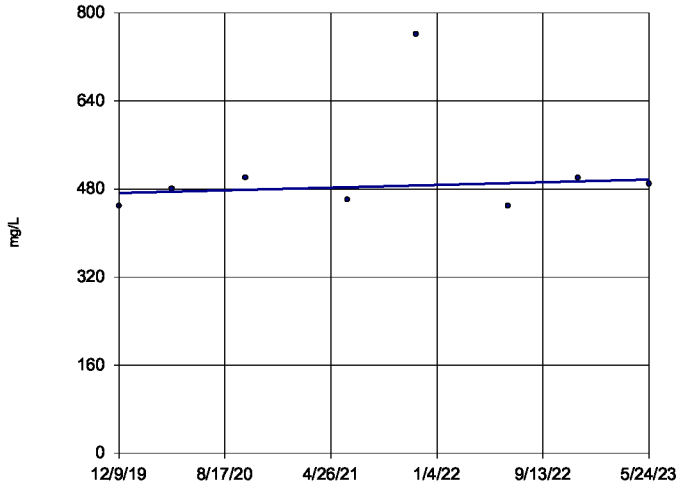
Total Dissolved Solids

P17-50 (Bg)



n = 8

Slope = 7.117 units per year.

Mann-Kendall statistic = 6 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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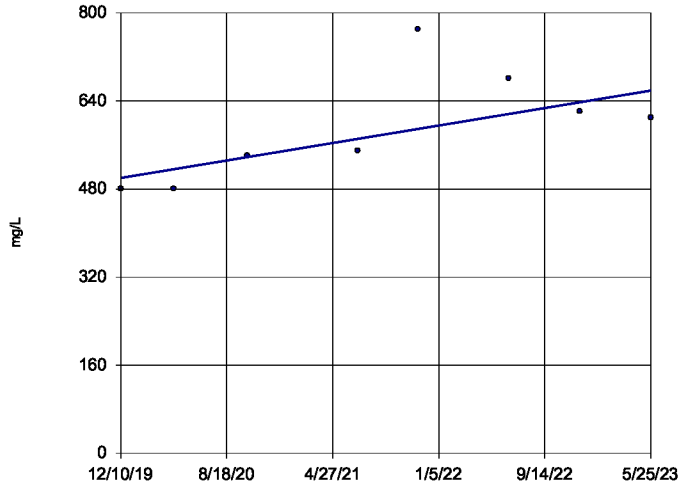
Total Dissolved Solids

P9-45R (Bg)



n = 8

Slope = 45.93 units per year.

Mann-Kendall statistic = 15 critical = 17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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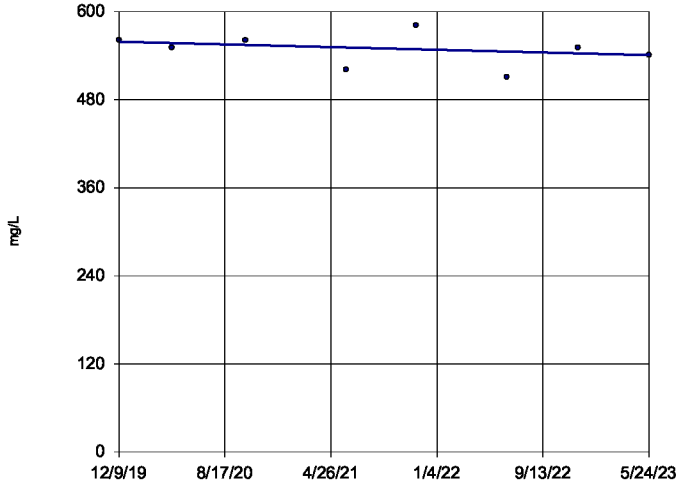
Total Dissolved Solids

P18-50 (Bg)



n = 8

Slope = -5.197 units per year.

Mann-Kendall statistic = -8 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

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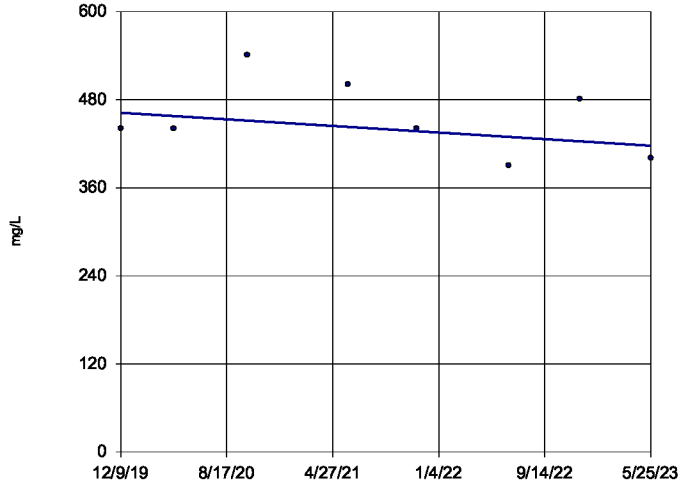
Total Dissolved Solids

P19-50 (Bg)



n = 8

Slope = -13.03 units per year.

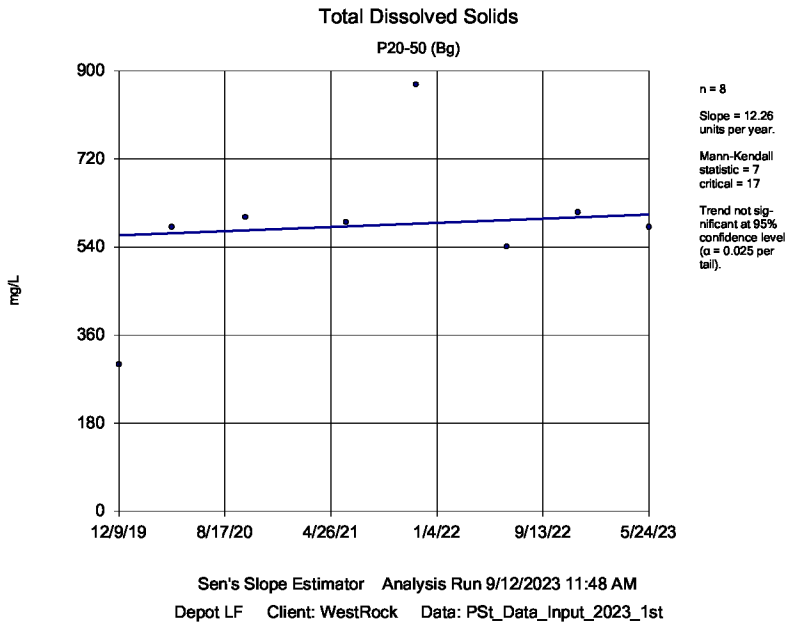
Mann-Kendall statistic = -7 critical = -17

Trend not significant at 95% confidence level (α = 0.025 per tail).

Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM

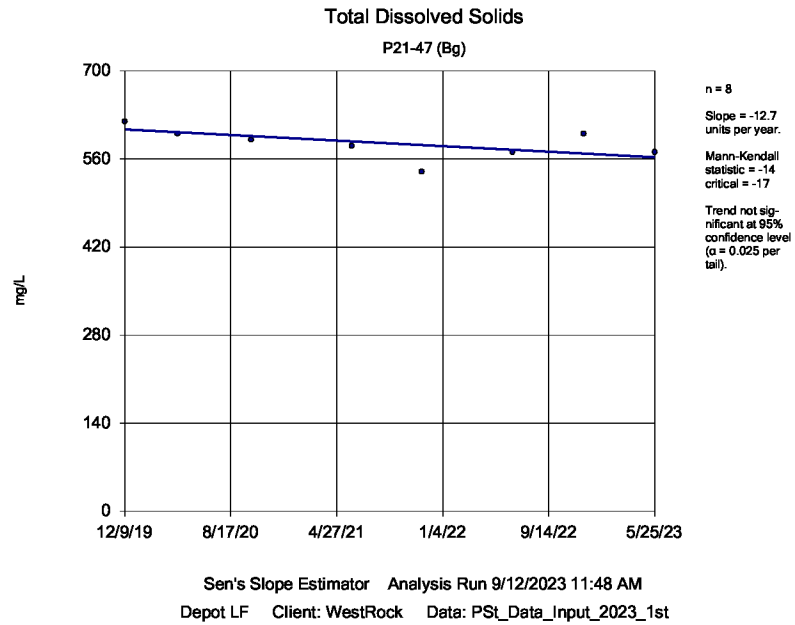
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



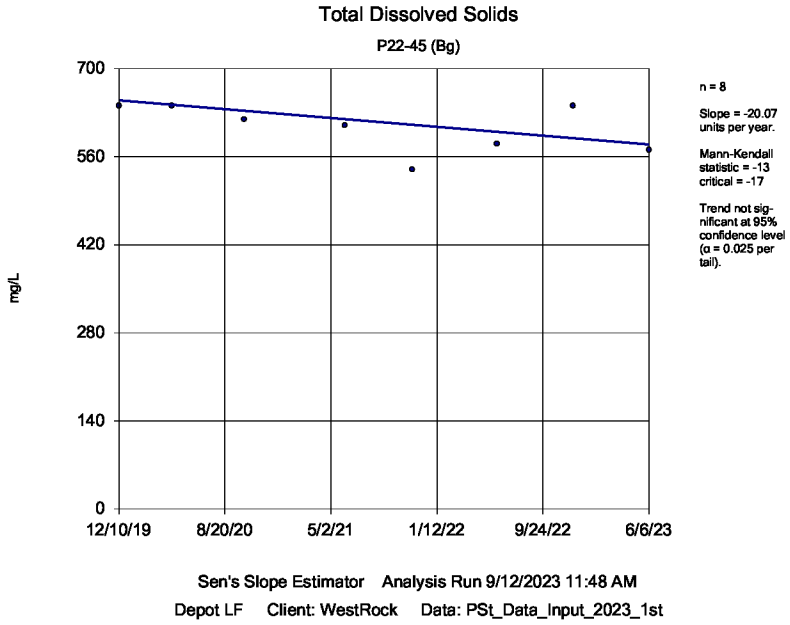
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



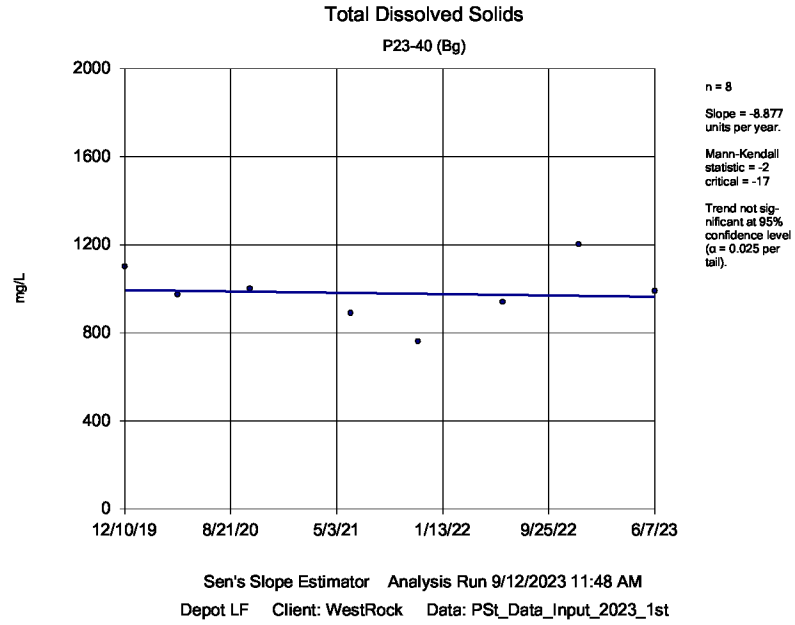
Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA



Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

Sanitas™ v.10.0.05 Software licensed to WestRock, CP, LLC. EPA

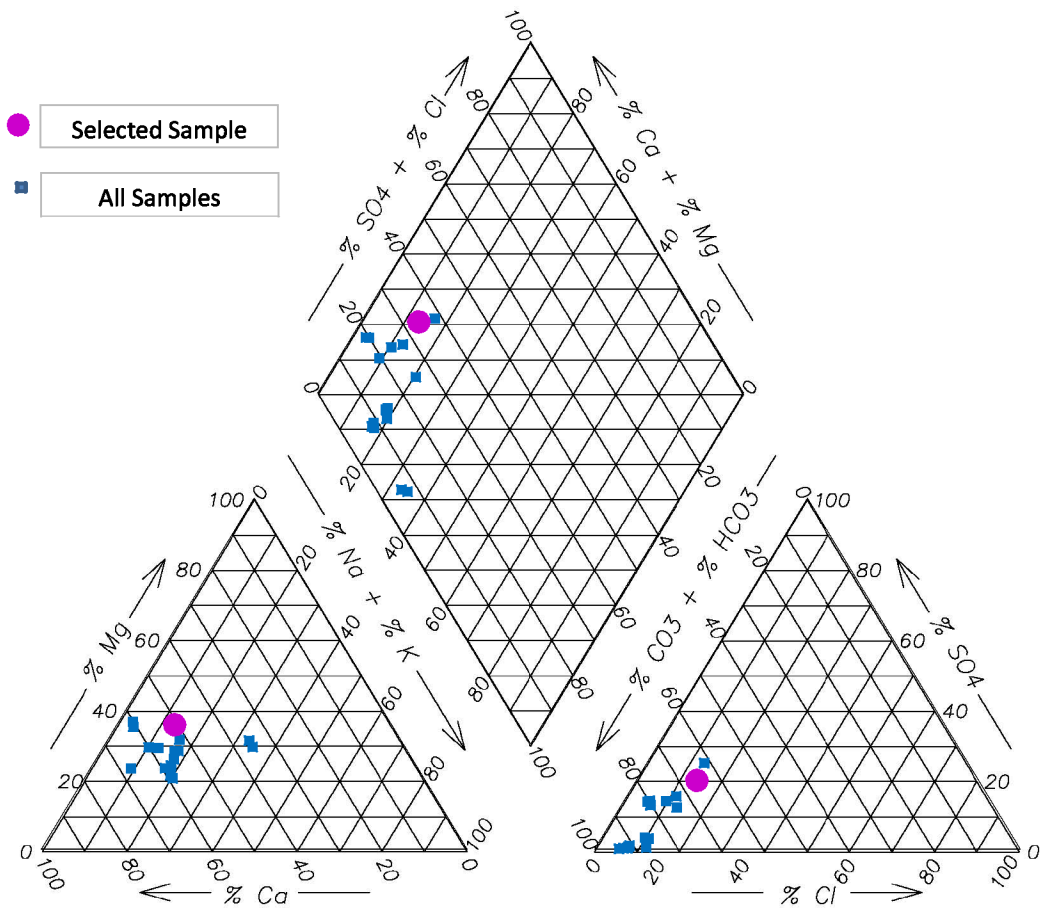


Sen's Slope Estimator Analysis Run 9/12/2023 11:48 AM
Depot LF Client: WestRock Data: PSt_Data_Input_2023_1st

1st Semi-Annual 2023
Corrective Measures Progress Report
Paint Street Landfill

Appendix F Stiff and Piper Diagrams

Sample ID: P8-37 **Sample Date:** 05/25/23

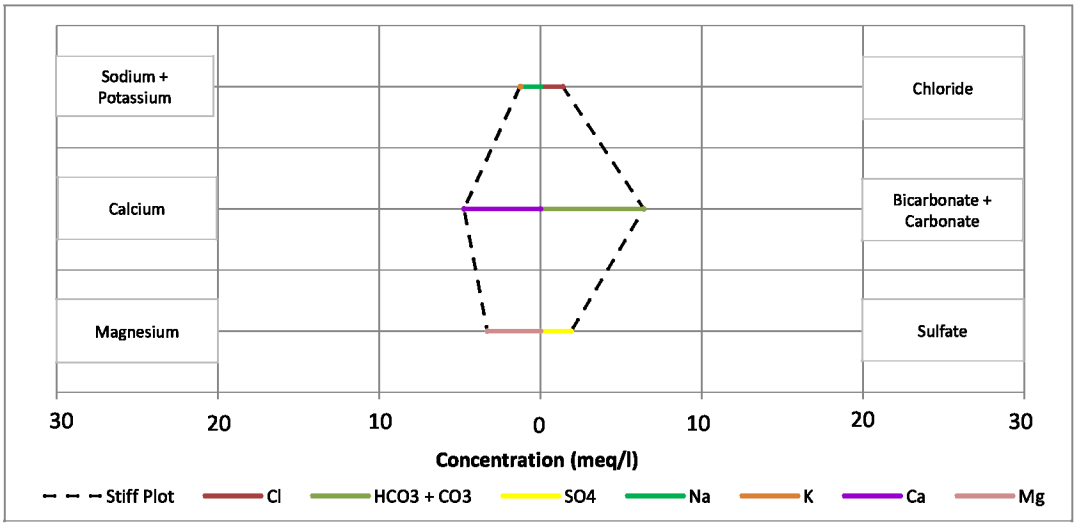


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
4.743	3.293	1.273

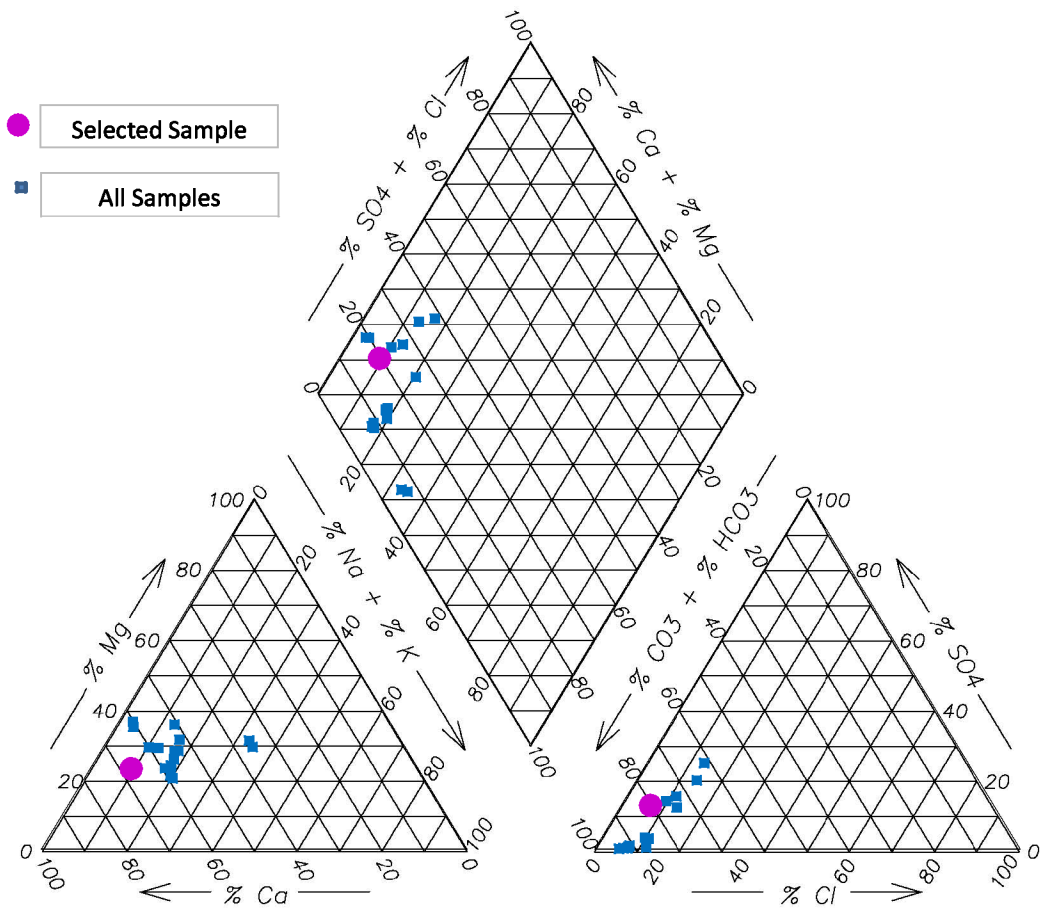
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.383	6.415	1.895

% Ca	% Mg	% Na + K
51.0	35.4	13.7

% Cl	% $HCO_3 + CO_3$	% SO_4
14.3	66.2	19.6



Sample ID: P9-45R **Sample Date:** 05/25/23

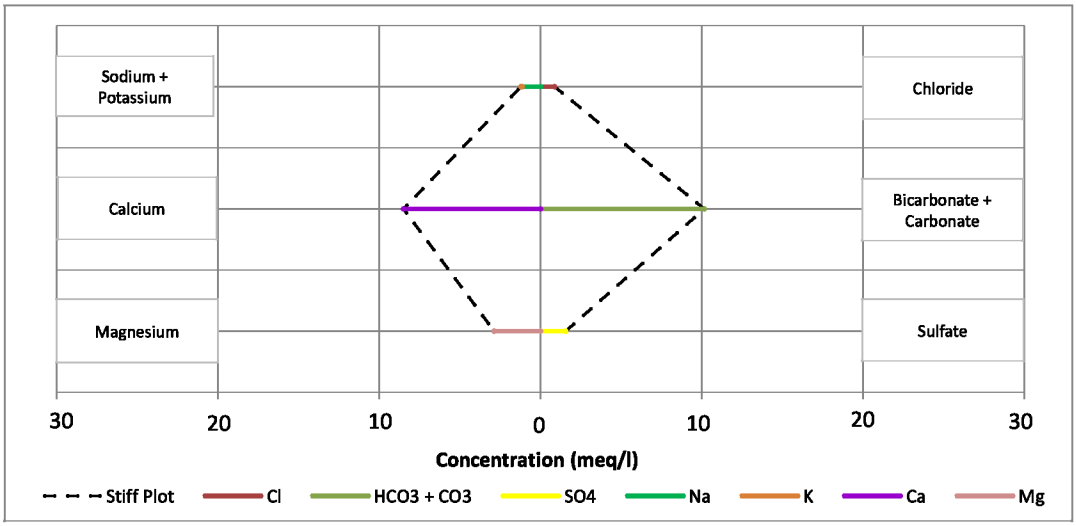


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
8.490	2.882	1.214

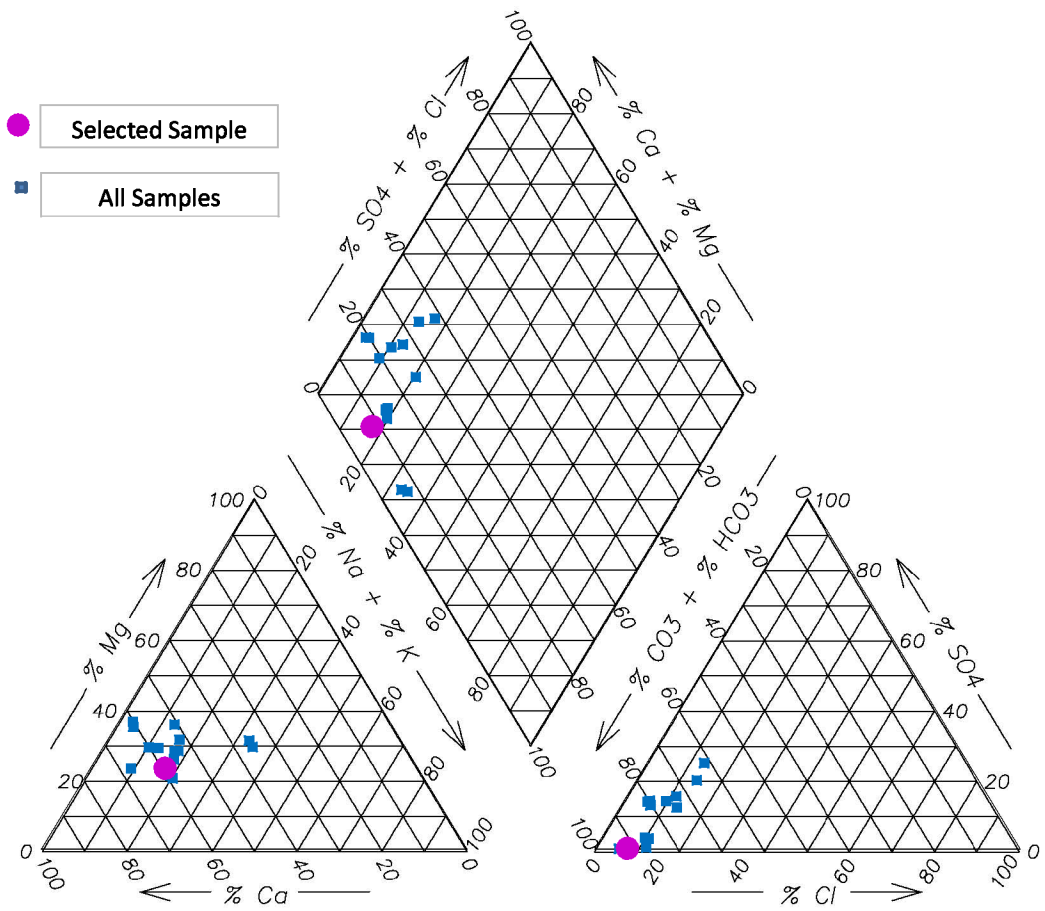
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
0.875	10.152	1.563

% Ca	% Mg	% Na + K
67.5	22.9	9.6

% Cl	% $HCO_3 + CO_3$	% SO_4
7.0	80.6	12.4



Sample ID: P11-52 **Sample Date:** 05/25/23

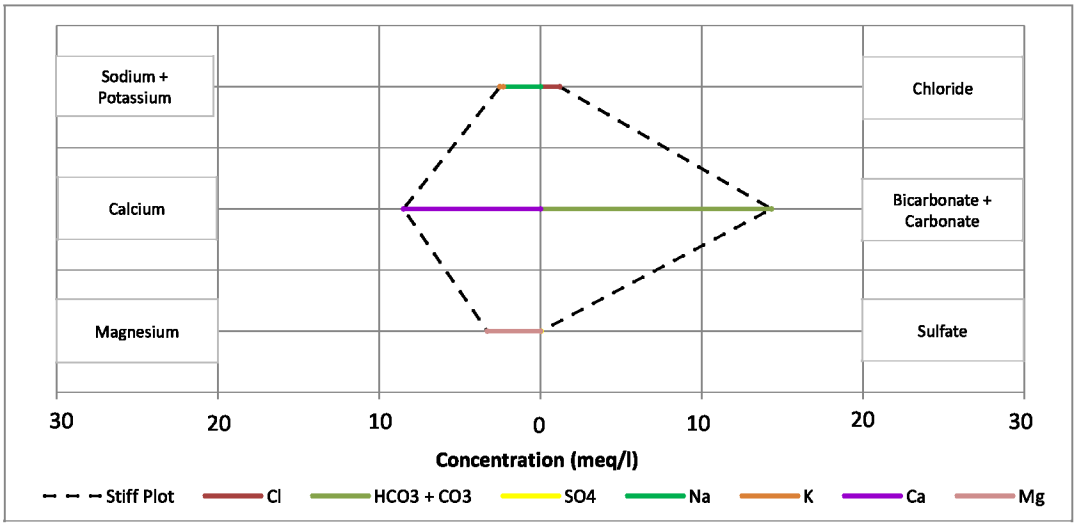


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
8.492	3.294	2.513

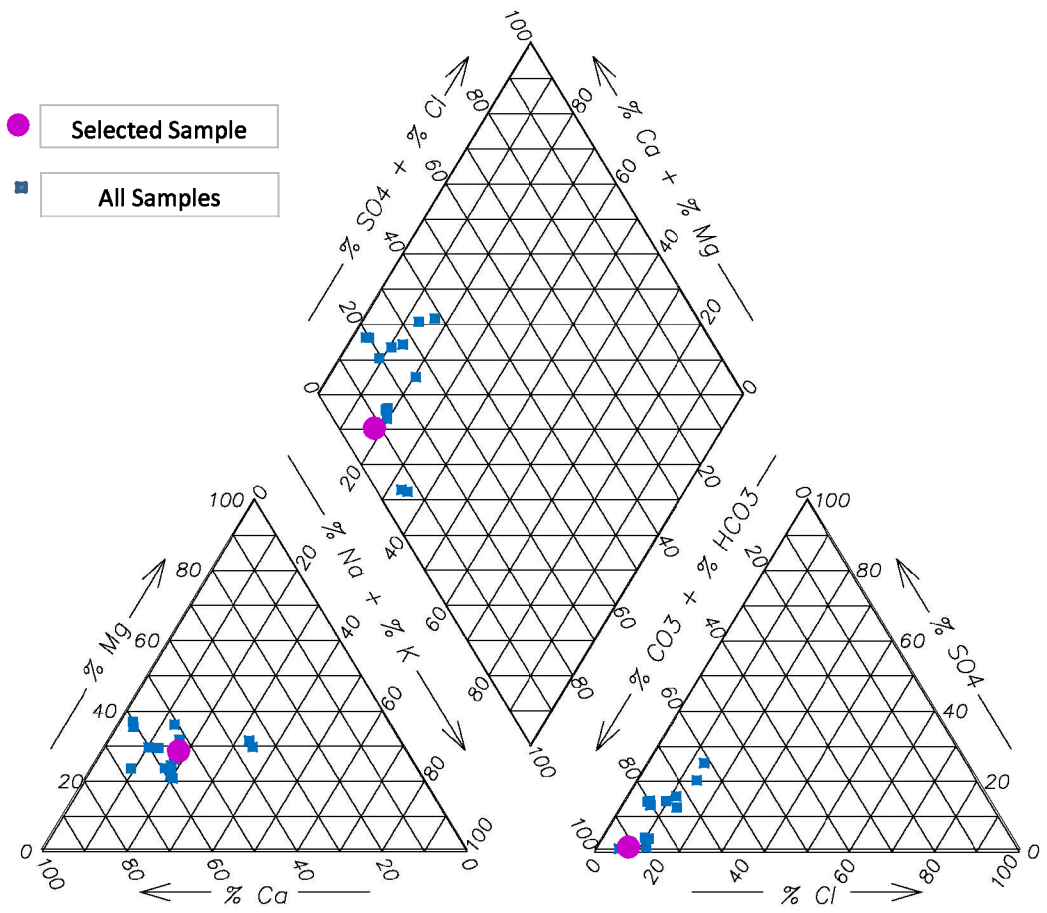
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.186	14.330	0.035

% Ca	% Mg	% Na + K
59.4	23.0	17.6

% Cl	% $HCO_3 + CO_3$	% SO_4
7.6	92.1	0.2



Sample ID: P12-40 **Sample Date:** 05/25/23

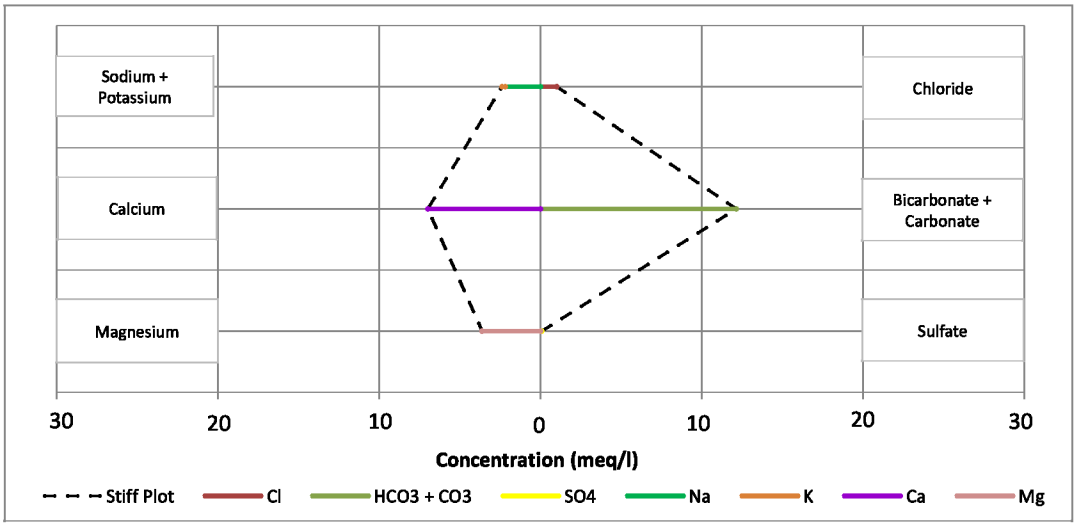


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.992	3.623	2.382

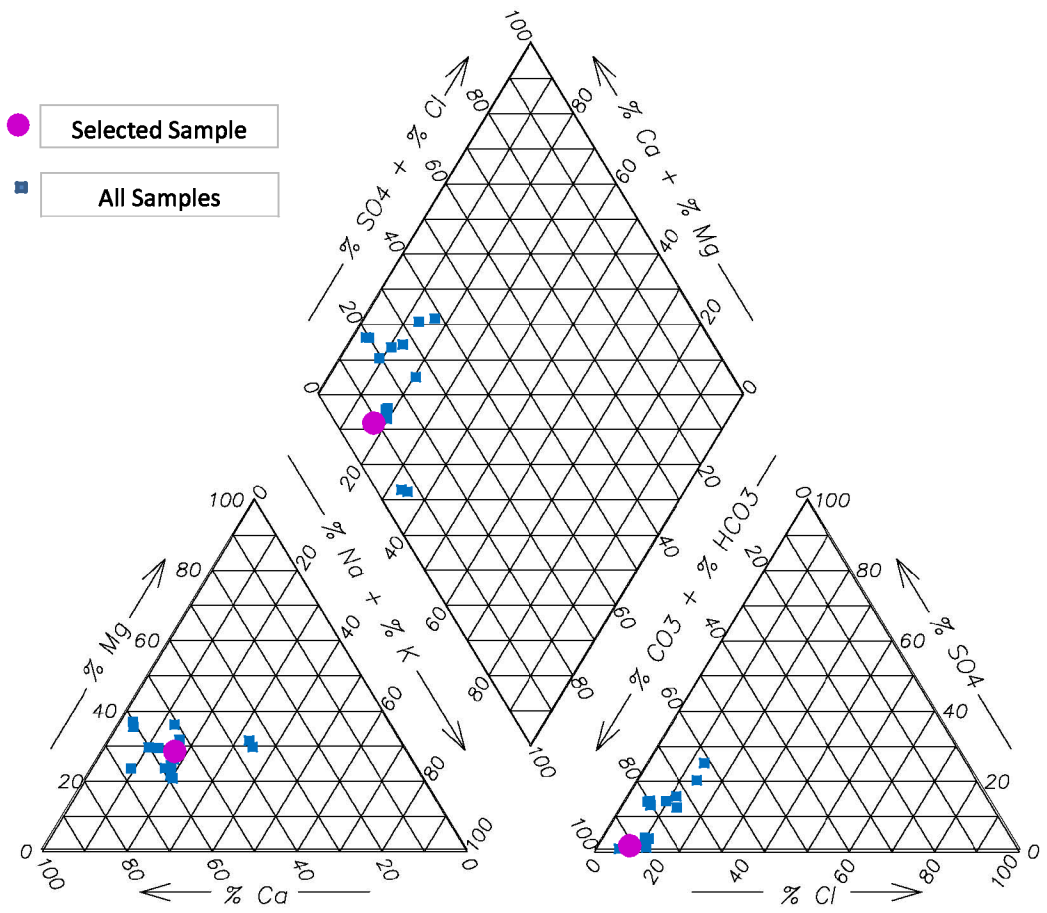
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.016	12.147	0.073

% Ca	% Mg	% Na + K
53.8	27.9	18.3

% Cl	% $HCO_3 + CO_3$	% SO_4
7.7	91.8	0.6



Sample ID: P12-30R **Sample Date:** 05/25/23

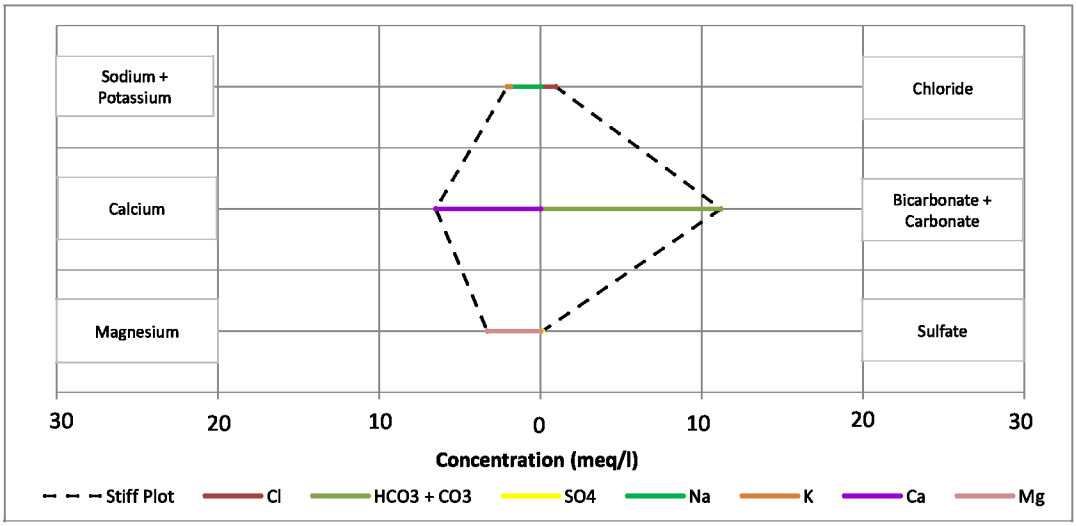


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.492	3.293	2.069

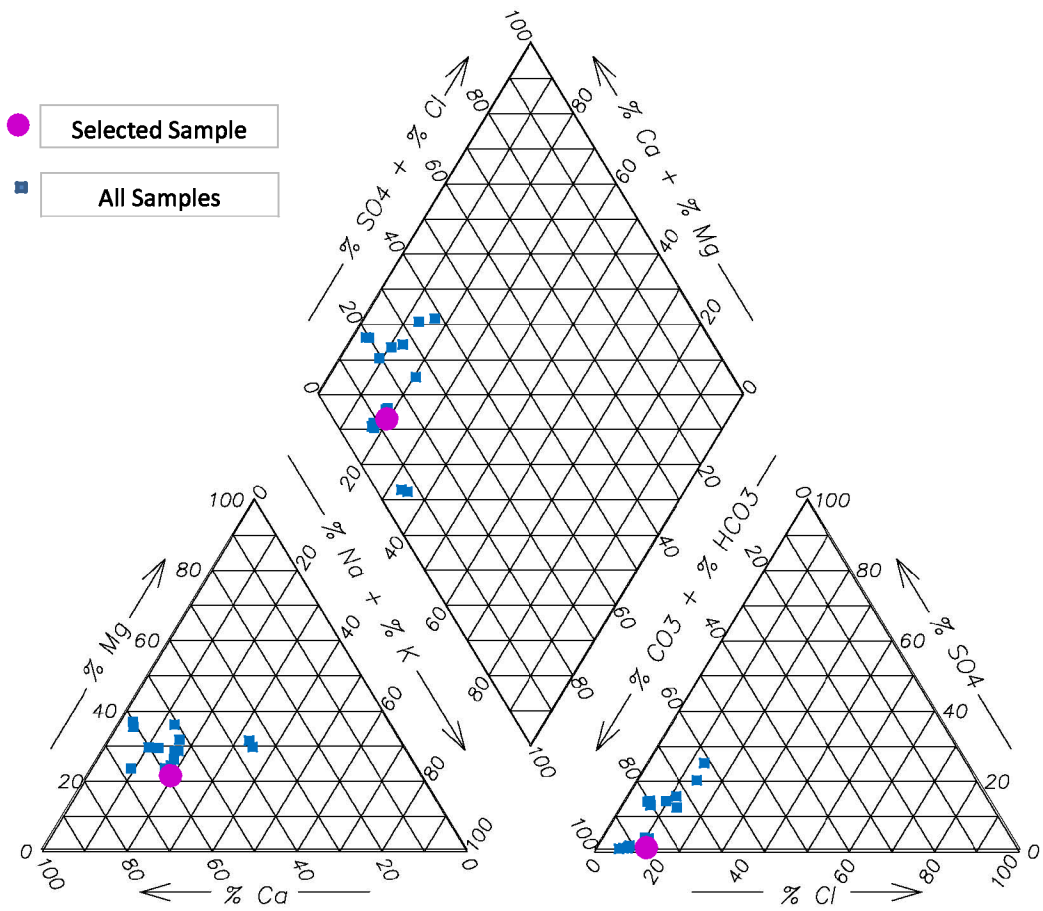
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
0.960	11.184	0.117

% Ca	% Mg	% Na + K
54.8	27.8	17.5

% Cl	% $HCO_3 + CO_3$	% SO_4
7.8	91.2	1.0



Sample ID: P13-42 **Sample Date:** 06/06/23

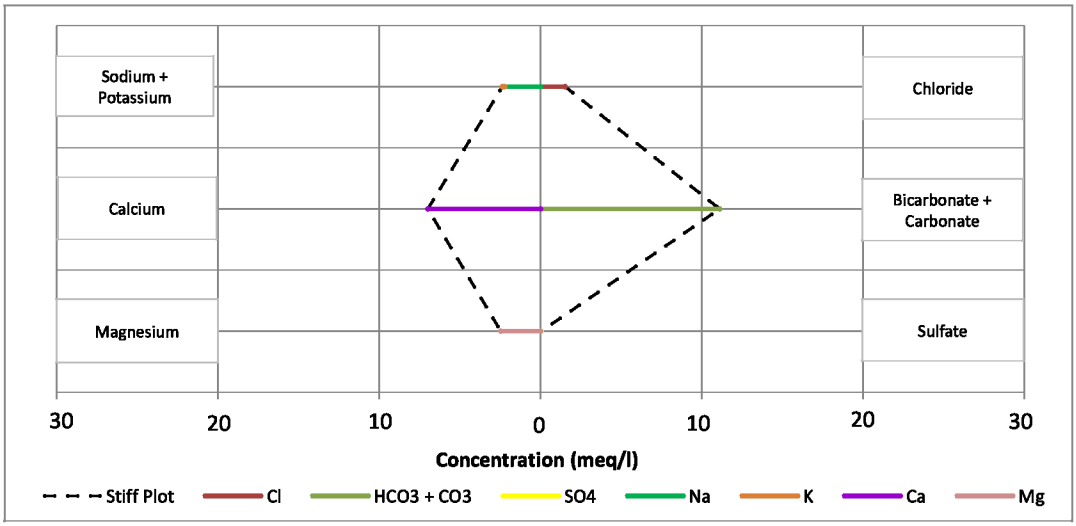


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.992	2.470	2.356

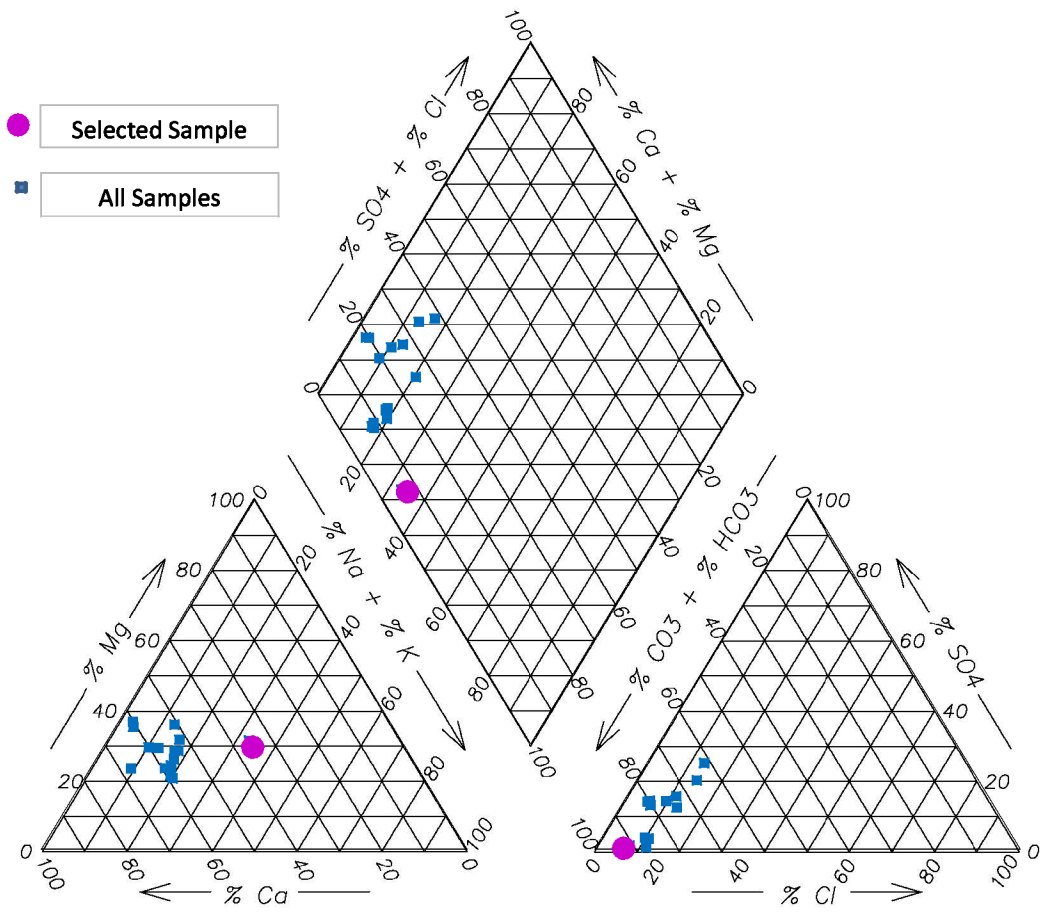
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.525	11.111	0.048

% Ca	% Mg	% Na + K
59.2	20.9	19.9

% Cl	% $HCO_3 + CO_3$	% SO_4
12.0	87.6	0.4



Sample ID: P14-40 **Sample Date:** 06/07/23

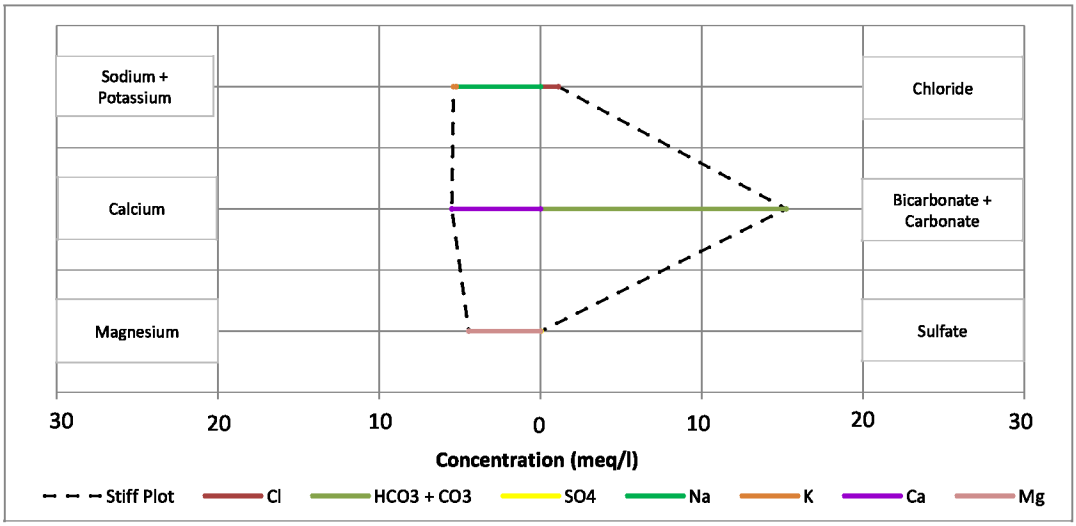


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
5.495	4.447	5.403

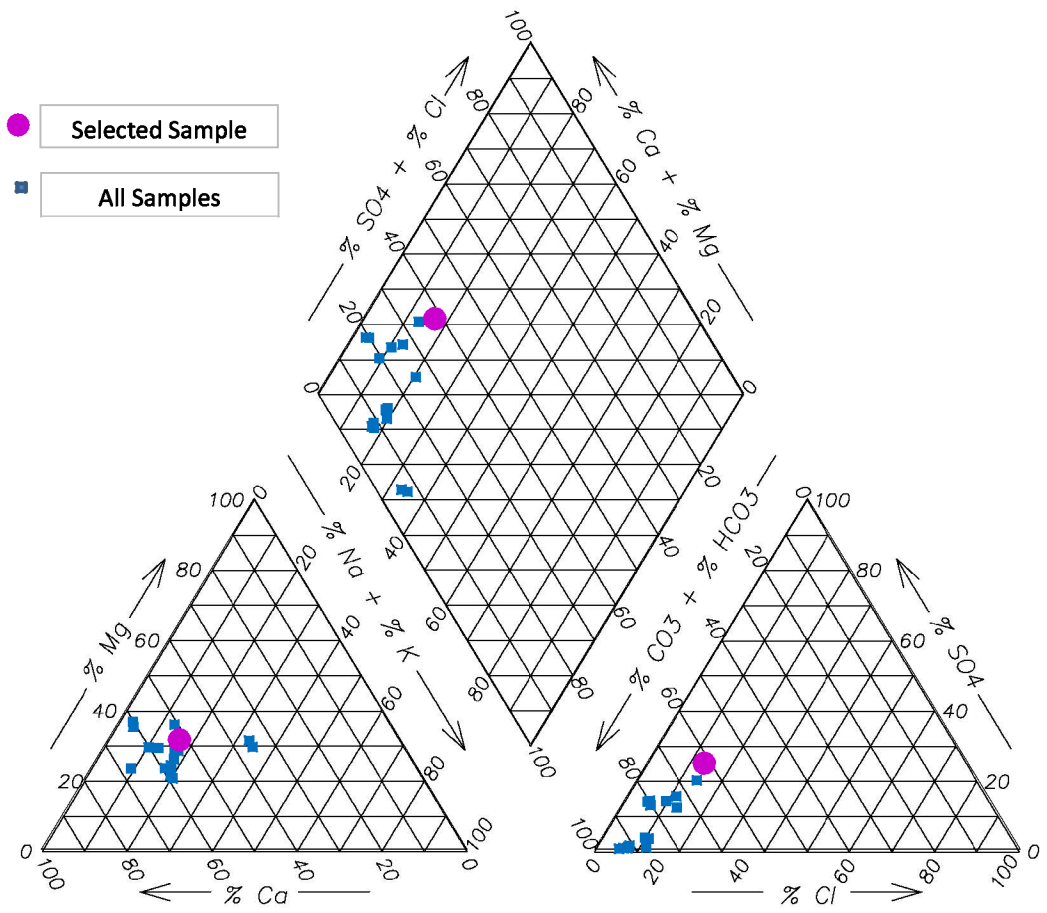
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.101	15.245	0.031

% Ca	% Mg	% Na + K
35.8	29.0	35.2

% Cl	% $HCO_3 + CO_3$	% SO_4
6.7	93.1	0.2



Sample ID: P15-35 **Sample Date:** 06/06/23

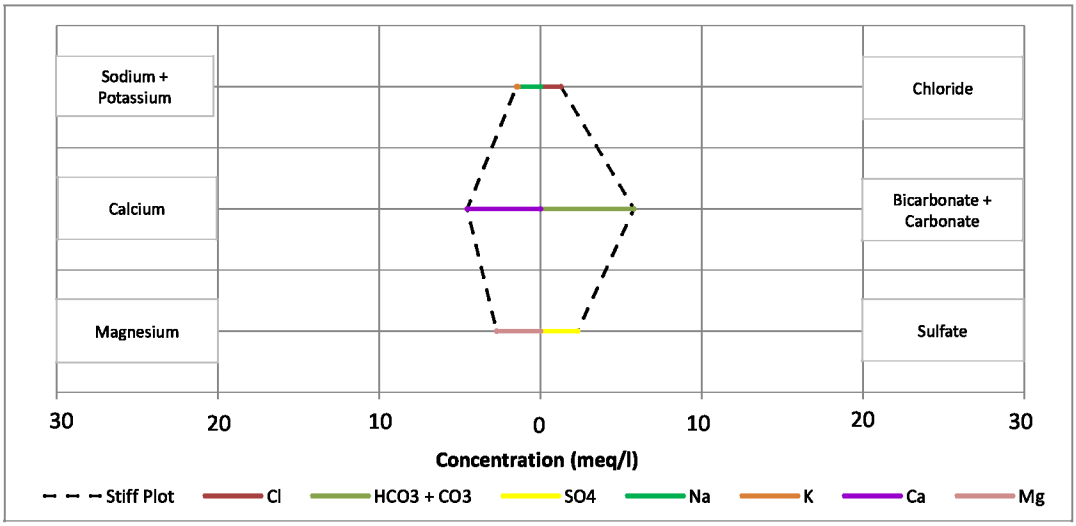


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
4.543	2.716	1.485

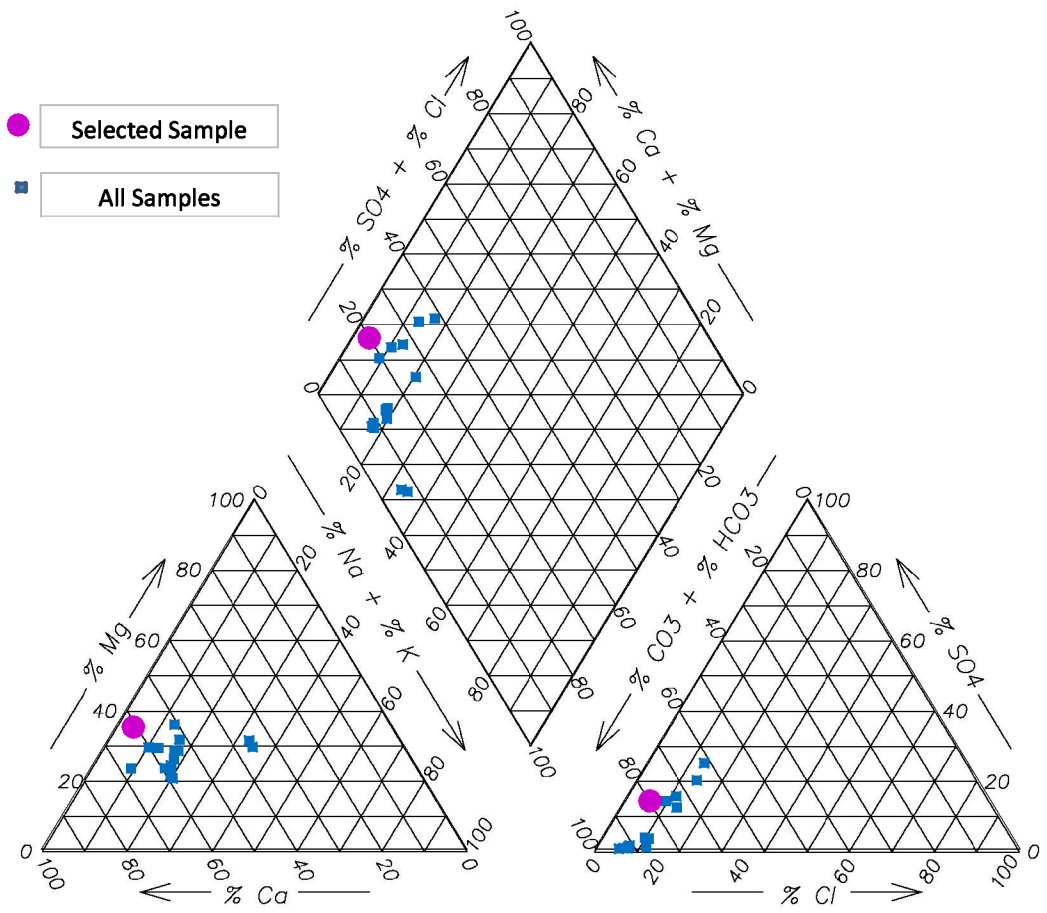
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.270	5.802	2.291

% Ca	% Mg	% Na + K
52.0	31.1	17.0

% Cl	% $HCO_3 + CO_3$	% SO_4
13.6	62.0	24.5



Sample ID: P16-50 **Sample Date:** 05/24/23

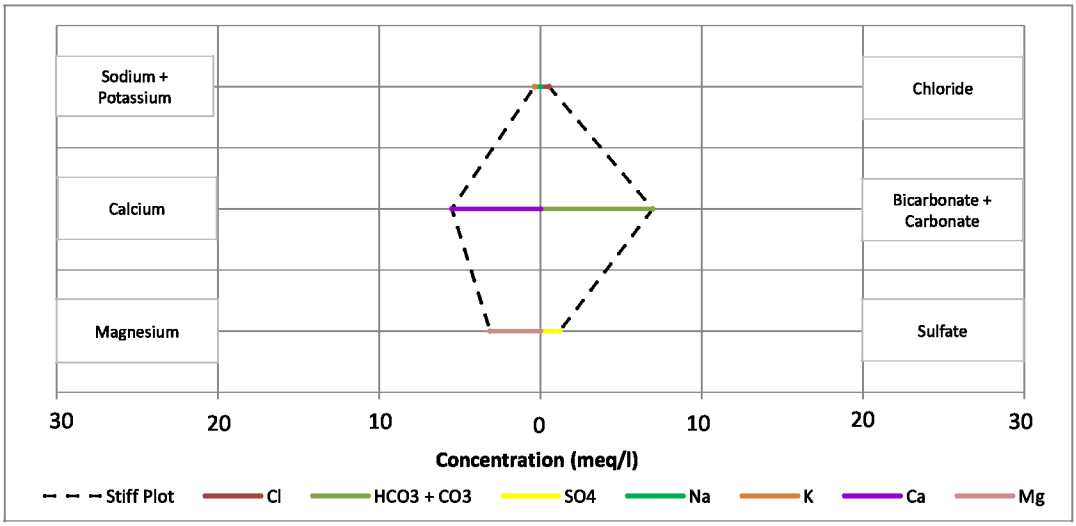


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
5.492	3.128	0.387

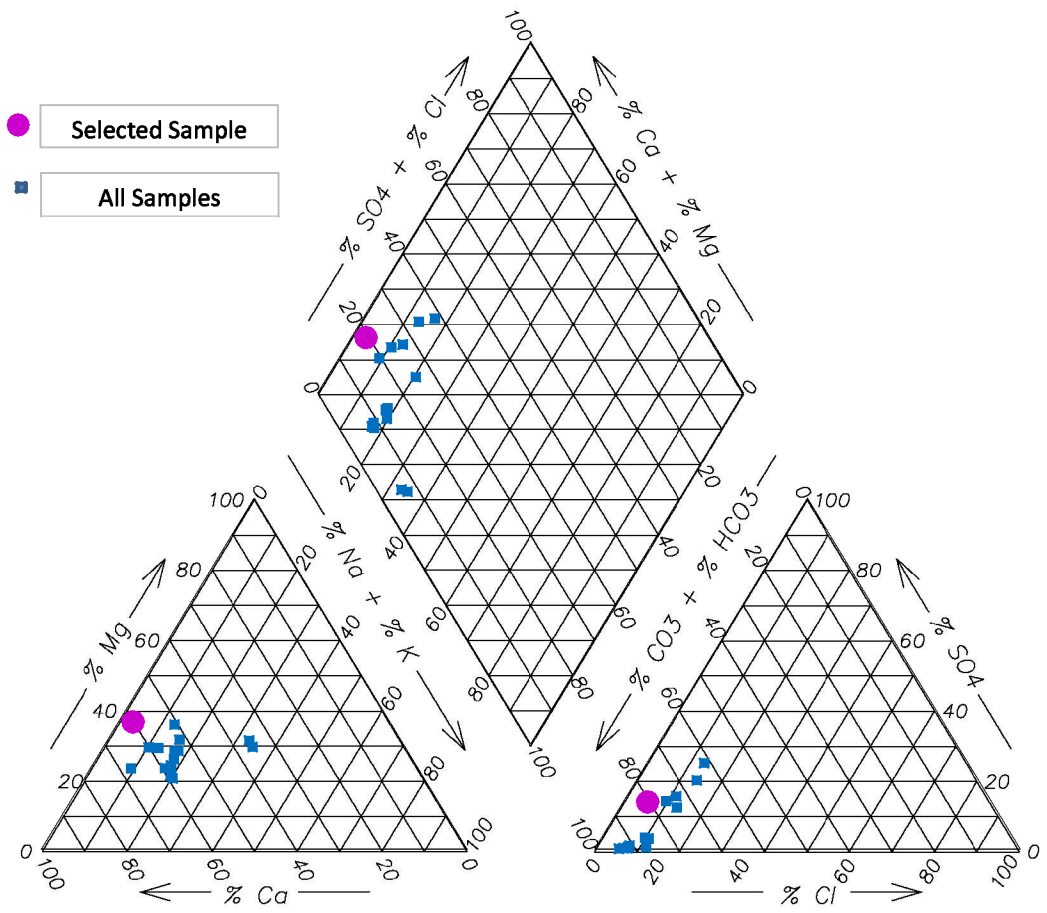
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
0.536	6.958	1.187

% Ca	% Mg	% Na + K
61.0	34.7	4.3

% Cl	% $HCO_3 + CO_3$	% SO_4
6.2	80.1	13.7



Sample ID: P17-50 **Sample Date:** 05/24/23

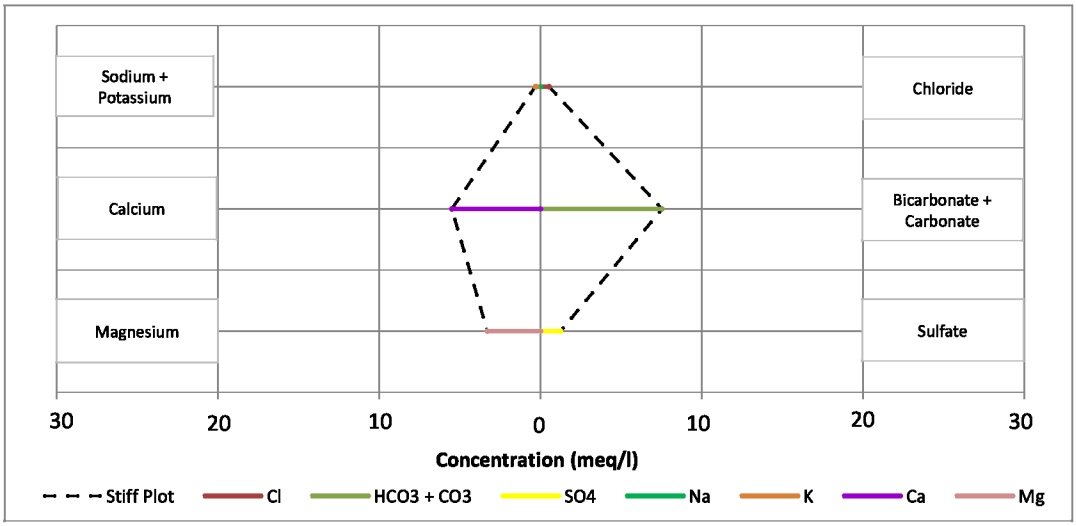


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
5.492	3.293	0.317

Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
0.536	7.540	1.250

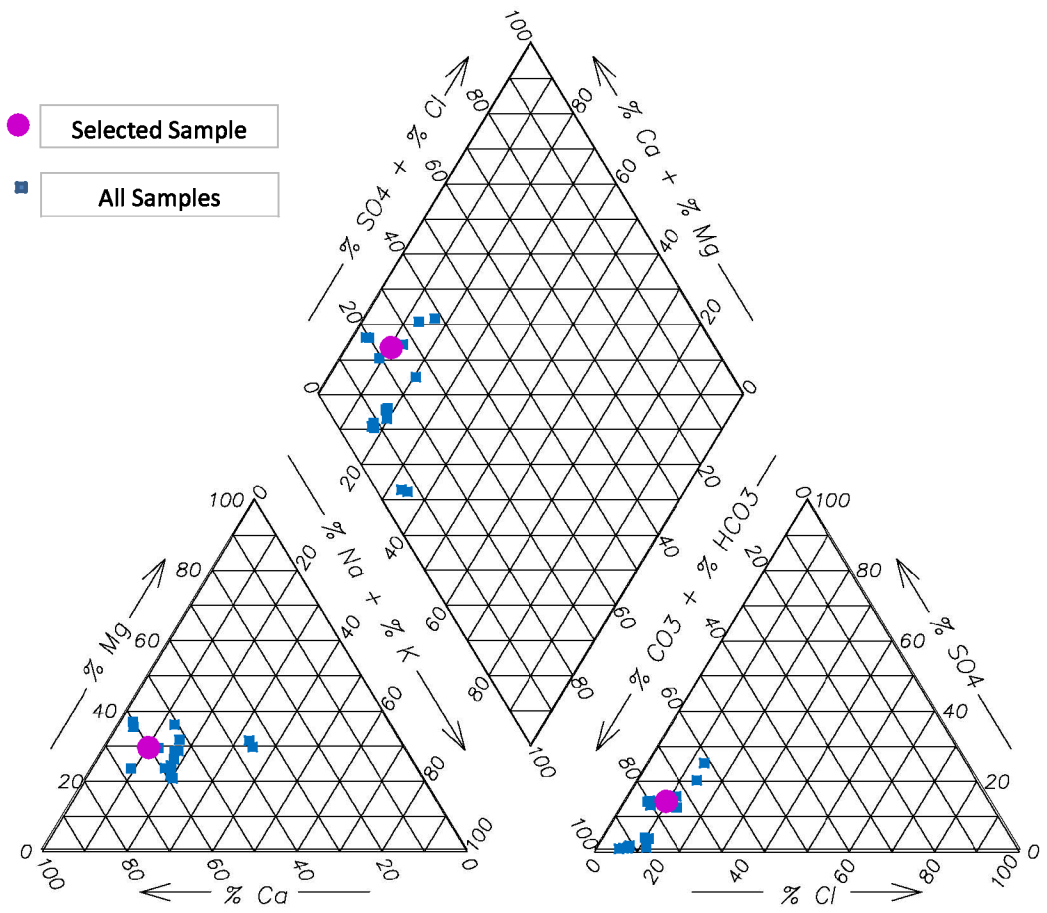
% Ca	% Mg	% Na + K
60.3	36.2	3.5

% Cl	% $HCO_3 + CO_3$	% SO_4
5.8	80.8	13.4



File: AppF_P St Piper Plots 2023 1st - JM Print Date: 9/11/2023

Sample ID: P18-50 **Sample Date:** 05/24/23

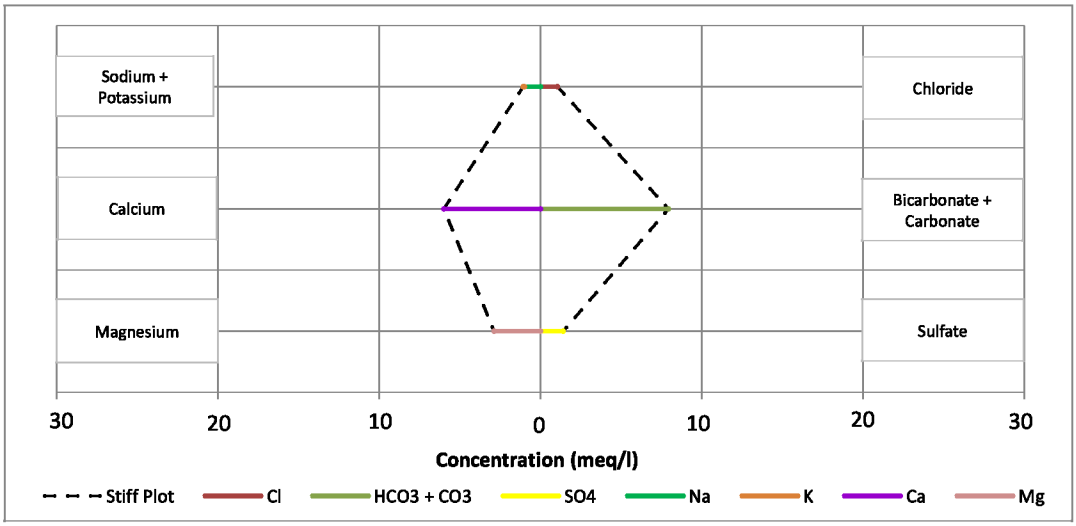


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
5.992	2.881	1.075

Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.045	7.940	1.416

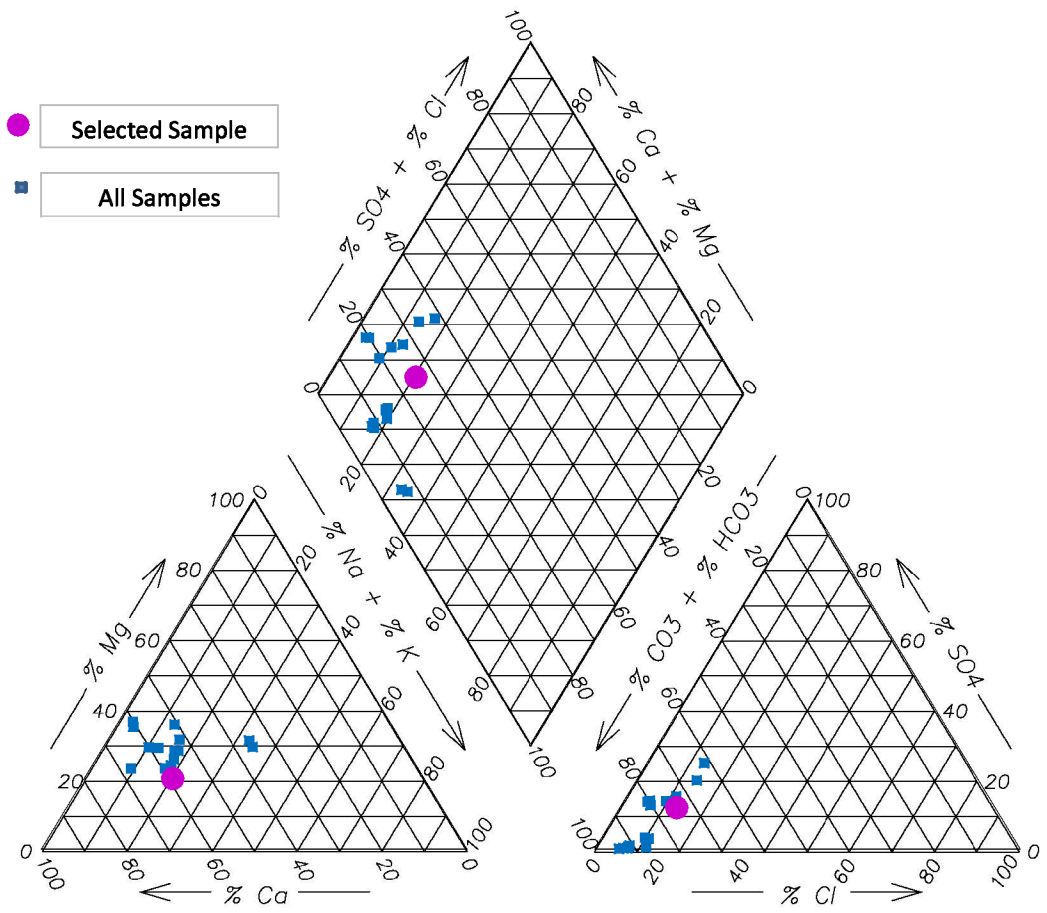
% Ca	% Mg	% Na + K
60.2	29.0	10.8

% Cl	% $HCO_3 + CO_3$	% SO_4
10.0	76.3	13.6



File: AppF_P St Piper Plots 2023 1st - JM Print Date: 9/11/2023

Sample ID: P19-50 **Sample Date:** 05/25/23

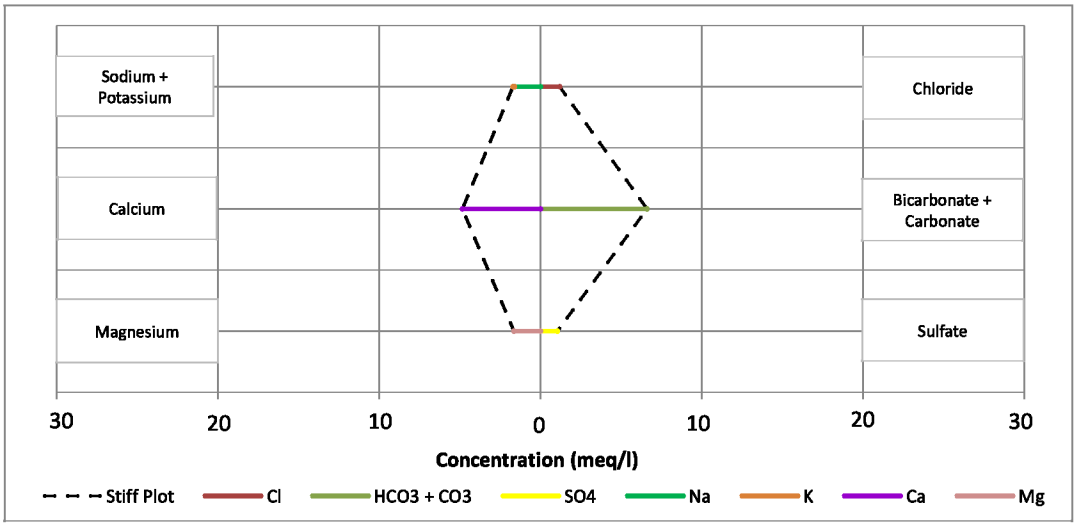


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
4.843	1.646	1.715

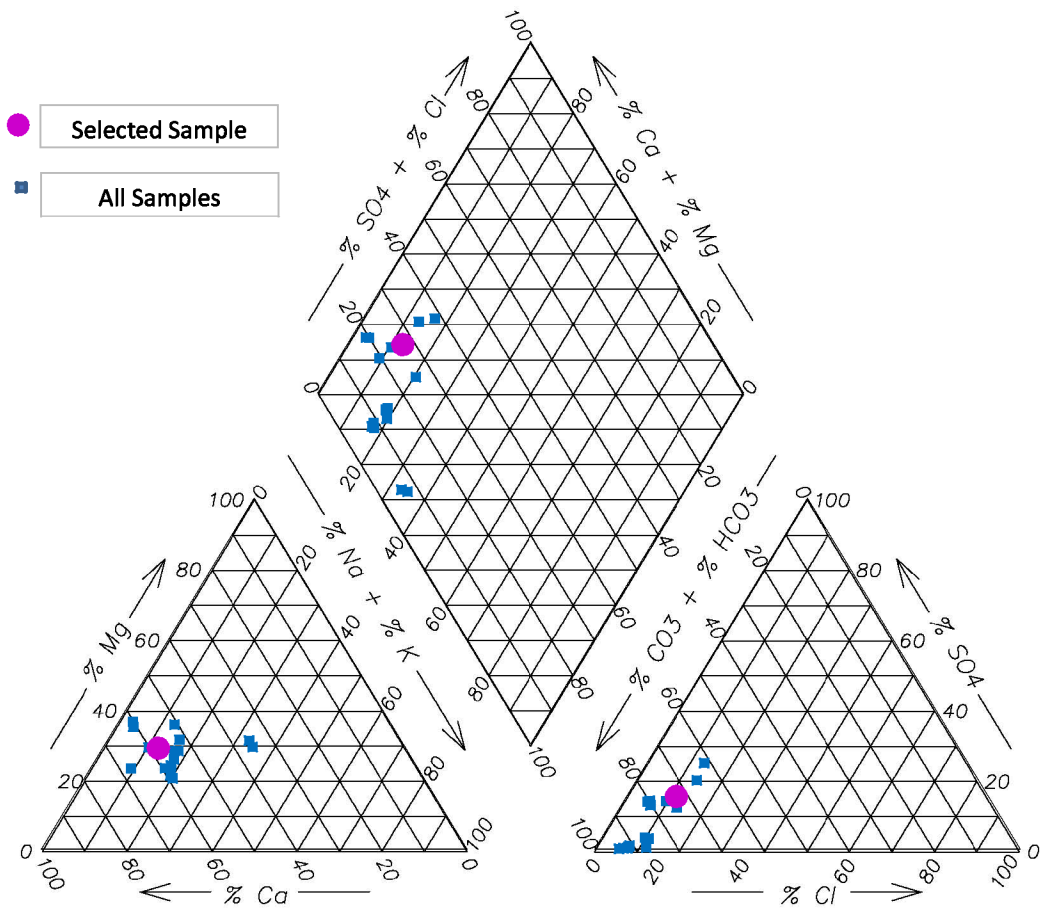
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.186	6.597	1.041

% Ca	% Mg	% Na + K
59.0	20.1	20.9

% Cl	% $HCO_3 + CO_3$	% SO_4
13.4	74.8	11.8



Sample ID: P20-50 **Sample Date:** 05/24/23

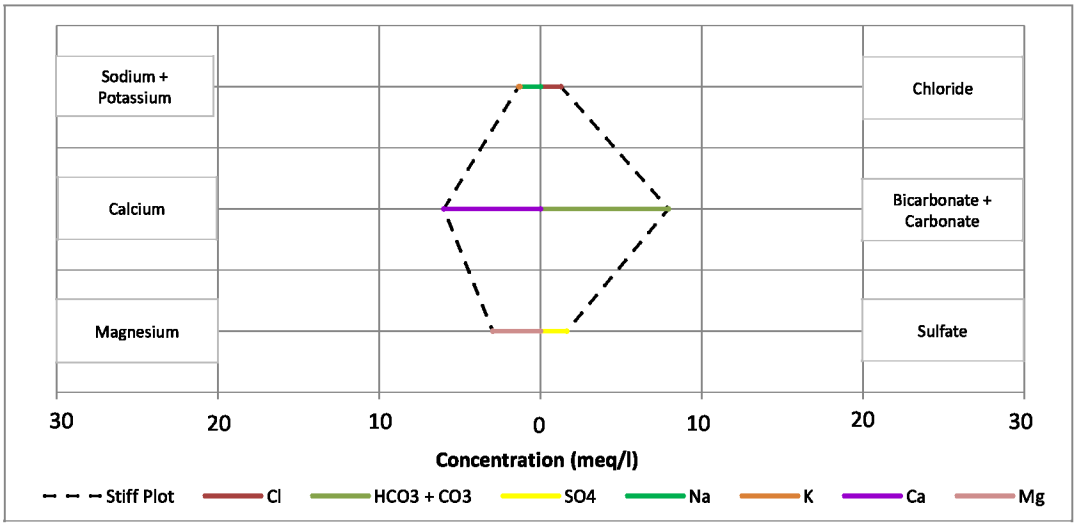


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
5.992	2.964	1.355

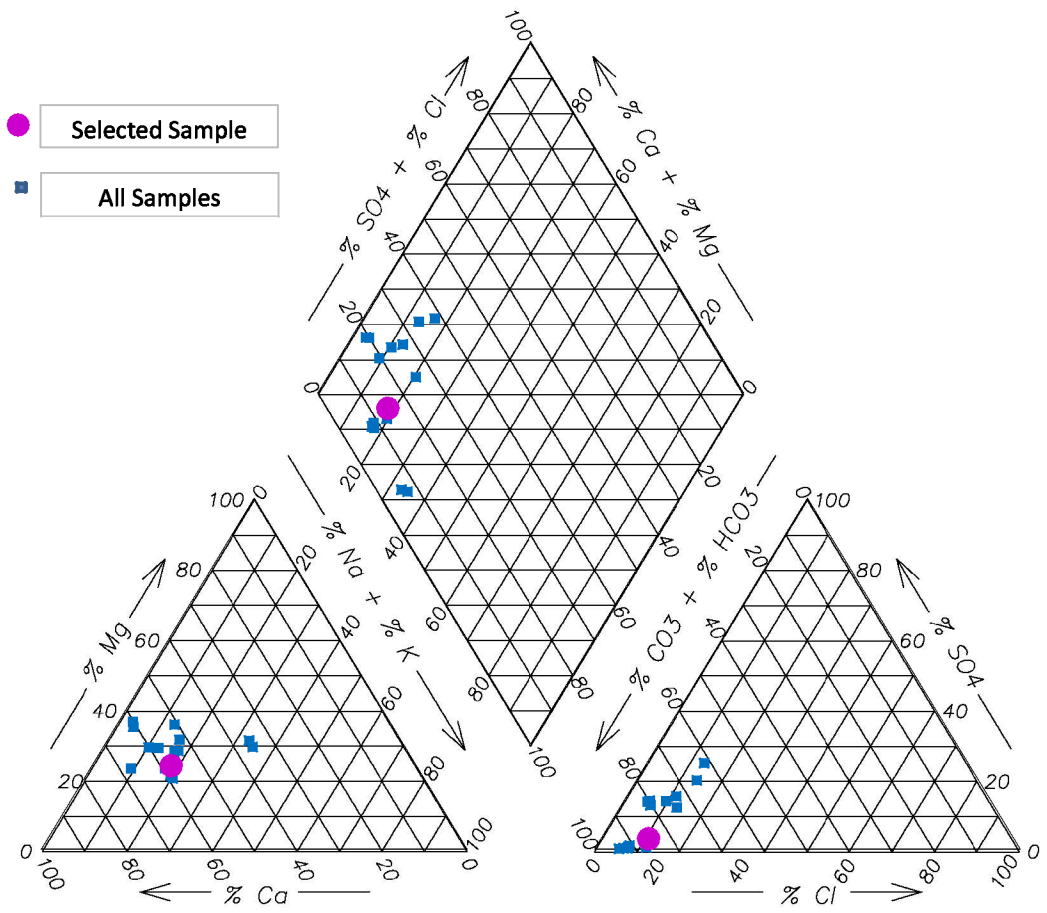
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.270	7.931	1.625

% Ca	% Mg	% Na + K
58.1	28.7	13.1

% Cl	% $HCO_3 + CO_3$	% SO_4
11.7	73.3	15.0



Sample ID: P21-47 **Sample Date:** 05/25/23

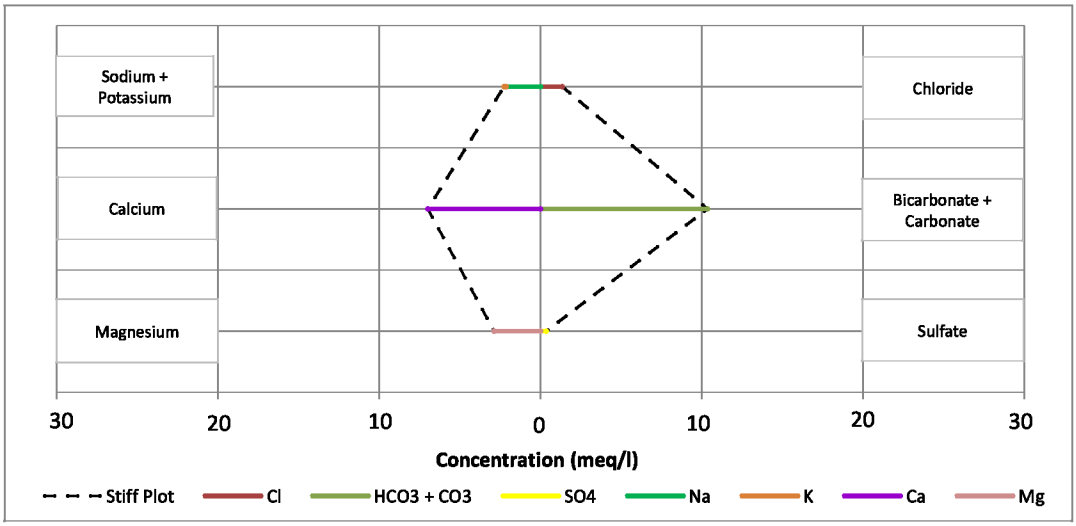


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.991	2.882	2.261

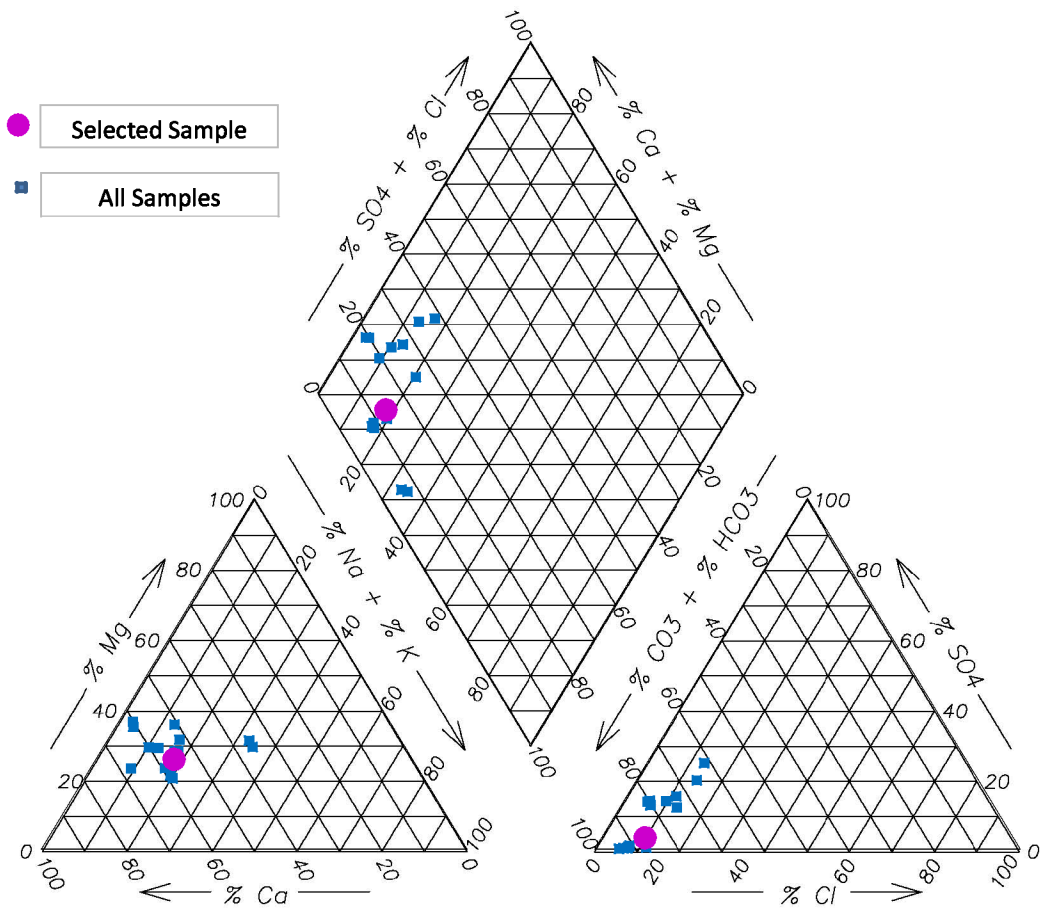
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.355	10.356	0.354

% Ca	% Mg	% Na + K
57.6	23.7	18.6

% Cl	% $HCO_3 + CO_3$	% SO_4
11.2	85.8	2.9



Sample ID: P22-45 **Sample Date:** 06/06/23

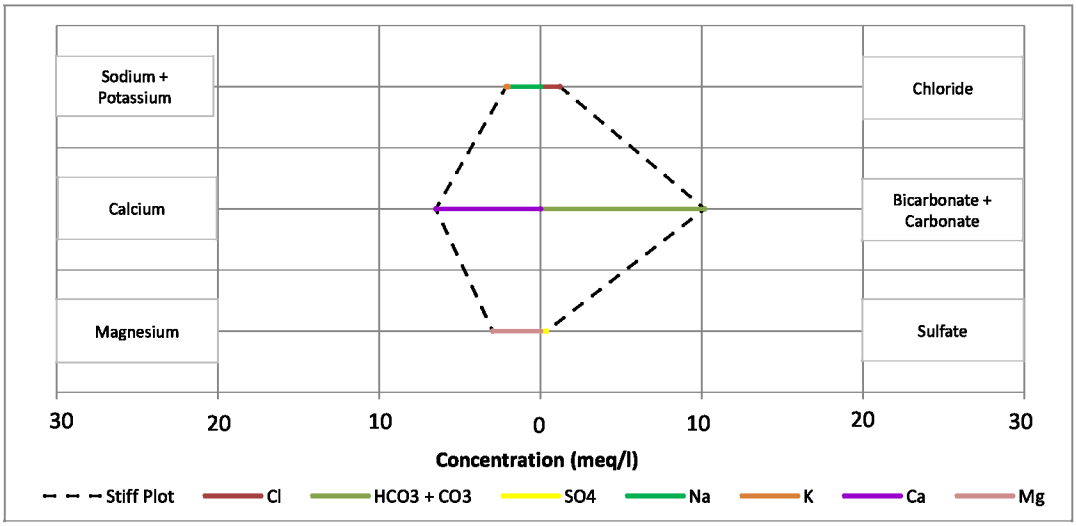


Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.492	2.964	2.136

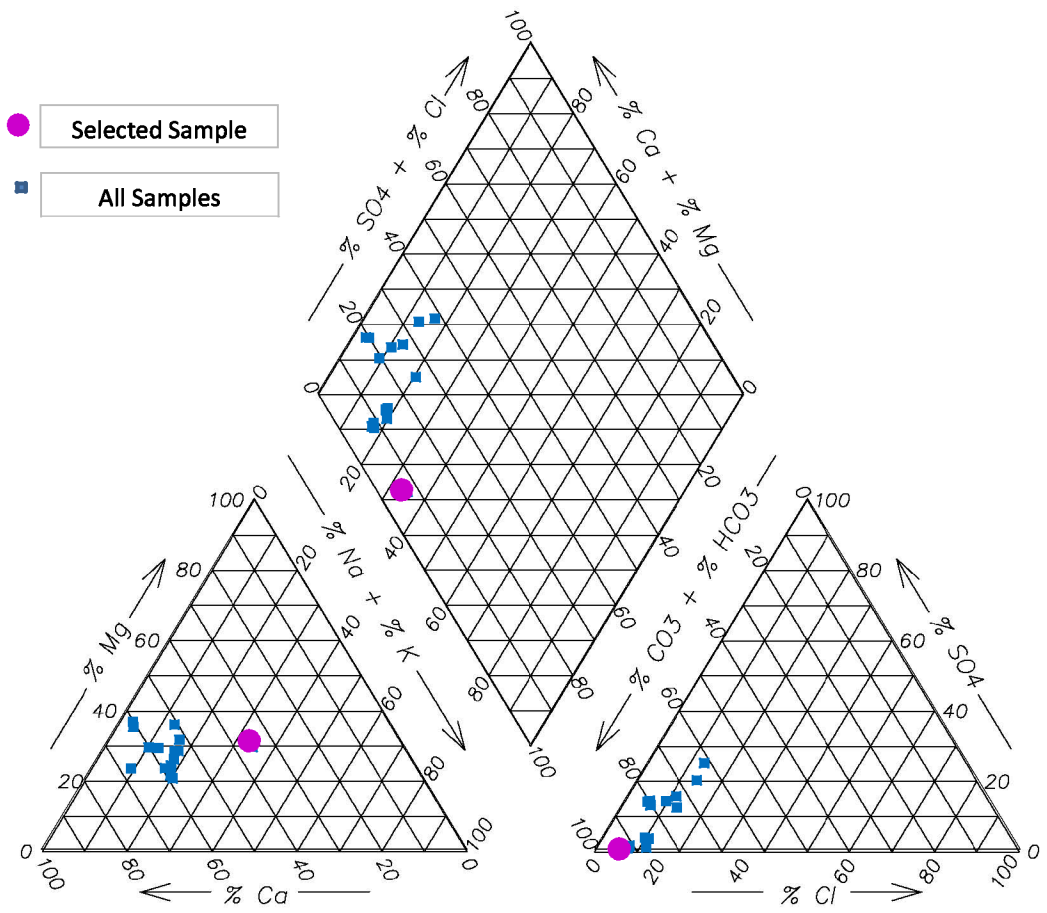
Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.214	10.187	0.375

% Ca	% Mg	% Na + K
56.0	25.6	18.4

% Cl	% $HCO_3 + CO_3$	% SO_4
10.3	86.5	3.2



Sample ID: P23-40 **Sample Date:** 06/07/23



Ca (meq/l)	Mg (meq/l)	Na + K (meq/l)
6.496	5.602	6.098

Cl (meq/l)	$HCO_3 + CO_3$ (meq/l)	SO_4 (meq/l)
1.158	18.937	0.000

% Ca	% Mg	% Na + K
35.7	30.8	33.5

% Cl	% $HCO_3 + CO_3$	% SO_4
5.8	94.2	0.0